

BIOCHAR APPLICATION TO A COLOMBIAN SAVANNA OXISOL: FATE AND
EFFECT ON SOIL FERTILITY, CROP PRODUCTION, NUTRIENT LEACHING
AND SOIL HYDROLOGY

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BIOCHAR APPLICATION TO A COLOMBIAN SAVANNA OXISOL: FATE AND
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Biochar, or biomass-derived black carbon (BC), is being considered as a tool for improving soil fertility, crop yields and for C sequestration in the soil. Biochar has been widely shown to be beneficial in agriculture, but the mechanisms underlying such effects are often not clearly demonstrated. Similarly, the fate of biochar after deliberate soil application has rarely been studied in the field. Two field experiments were undertaken on an Oxisol of the oriental savanna region of Colombia: one to study the effect of biochar application on soil fertility, crop yields, nutrient leaching and soil hydrology, and another to observe the fate of soil-applied BC as well as non-BC through soil respiration, leaching and changes in soil C stocks. The application of 20 t ha⁻¹ of biochar resulted in maize yield increases of 28, 30 and 140% in the second, third and fourth year after biochar application. These yield increases were associated with greater nutrient uptake by the crop where biochar had been applied. Leaching below the rooting zone was reduced by 17% for P, 19% for Sr, 8% for NO₃-N, 23% for Ca, 28% for Mg, and 36% for K, over two years, with biochar application. Simultaneously, soil availability of Ca and Mg was also greater, although these were limiting for maize production. The retention of nutrients by biochar and greater pH thus resulted in reduced leaching and greater crop uptake, with the greatest effect observed with Ca and Mg. In this heavy clay soil, biochar application did not modify

soil hydrological parameters. In a separate experiment using stable isotope techniques to attribute sample C to its source, the mean residence time of biochar applied at a rate of 23.2 t ha⁻¹ was found to be ~600 years at 26 °C. Losses by respiration amounted to 2.2% of BC applied, while losses by leaching amounted to less than 1%. Small amounts of BC migrated downward below the application depth. Black C application caused a 189% increase in above ground biomass, which quantitatively explains greater amounts of non-BC also being respired, leached and found as a soil C stock.

BIOGRAPHICAL SKETCH

Julie was raised on a farm outside Montréal in Canada. She completed a B.Sc. degree with a major in Plant Science at McGill University in Montréal in December 2000. She became interested in topical agriculture as an undergraduate, during a field semester in Panamá. After completing an internship with the Canadian International Development Agency (CIDA) in the Dominican Republic in the first half of 2001, she undertook an M.S. degree at Cornell where she studied weed dynamics on *Terra preta de Índio* soils of the Brazilian Amazon. She graduated in 2004 and immediately started her Ph.D. Working on *Terra preta* soils sparked her interest in studying biochar as a soil amendment.

To my beloved husband, Max, for his unfailing support

"There is always more misery among the lower classes than
there is humanity among the higher."

-Victor Hugo, *Les Misérables*

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CHAPTER 1

BIOCHAR EFFECTS ON NUTRIENT LEACHING: A LITERATURE REVIEW¹

Introduction

Leaching is often an important aspect of nutrient cycling in agriculture (Brady and Weil, 2008). It occurs when mobile nutrients in the soil solution are displaced by percolating water, to an area outside the rooting zone where plants cannot utilize them. Nutrients adsorbed to small, mobile particles or colloids can also be leached to deeper soil horizons through facilitated transport. For nutrients dissolved in the soil solution, a migration of anions must be accompanied by an equivalent migration of cations for the maintenance of electroneutrality. As such, the loss of highly mobile nitrate molecules after nitrogen (N) fertilization or organic matter mineralization must occur along with the loss of cations such as calcium (Ca), potassium (K), magnesium (Mg), etc. The amounts of plant-essential nutrients lost from the rooting zone by leaching can be considerable: losses up to 80% of applied N (Lehmann et al, 2004), 172% of applied Ca (Omoti et al, 1983), and 136% of applied Mg (Cahn et al, 1993) have been reported in the field. Values greater than 100% indicate that nutrients other than those added were also mobilized, for example by the process of desorption. Leaching, like most soil properties and processes, can be spatially and temporally highly variable.

While large proportions of nutrient losses certainly imply economic impacts with fertilizer use efficiency and soil nutrient stock depletion, the environmental impacts brought about by nutrient leaching can be considerable. Phosphorus (P) and other nutrients cause eutrophication when they leach or run off from agricultural land into water bodies. This is currently one of the most common causes of unacceptable

¹Major J, Steiner C, Downie A, Lehmann J. 2009. Biochar effects on nutrient leaching. In: J. Lehmann and S. Joseph, eds. *Biochar for Environmental Management: Science and Technology*. Earthscan, London. With kind permission of Earthscan Publishers.

water quality levels in the developed world (Daniel et al, 1998; Sharpley et al, 2001). In 1992, as much as 26% of water wells in intensive agricultural areas of the US were found to have nitrate levels above the maximum contaminant level (MCL) set by the Environmental Protection Agency (EPA) (Mueller et al, 1995). British water supply companies have made costly investments in blending and other technology to reduce nitrate levels to EU limits (DEFRA).

Biochar has been found to decrease nutrient leaching on its own (Downie et al, 2007; Dünisch et al, 2007) as well as after incorporation to soil (Lehmann et al, 2003). In this chapter we review empirical evidence on the magnitude and dynamics of biochar's effect on nutrient leaching, and discuss possible mechanisms and processes by which this effect is observed.

General factors that influence nutrient leaching

Before considering the effect of biochar application on soil nutrient leaching, the contributory factors to the leaching process must be examined. Indeed factors other than biochar application, such as rainfall patterns, will likely be stronger determinants of leaching losses. Biochar application represents a controllable production factor and has the potential to help manage such losses.

Management of vegetation and fertilization

Nutrient leaching is generally greatest under fertilized row crops such as maize or horticultural crops, and targeting these cropping systems may yield the best results for reducing leaching. Roots exert suction on the soil, and the horizontal and vertical distribution of roots that are intercepting and taking up nutrients influences leaching. Deep-rooted plants such as trees can act as “safety nets” and recycle leached nutrients that have migrated to deeper soil horizons (Rowe et al, 1998; Allen et al, 2004).

Nutrient use efficiency also varies among crop species and varieties, as well as if other stress factors are present such as drought and pest pressure. Lower efficiencies should lead to greater losses of unutilized nutrients through leaching. The amounts, chemical form, timing and placement of fertilizers, synthetic and organic, also greatly affect nutrient leaching patterns (Melgar et al, 1992; Cahn et al, 1993; van Es et al, 2002). Ideally these should match crop requirements in both time and space, but practical considerations often prevent this. With greater nutrient retention by biochar additions to soil, timing of nutrient applications will become less critical with respect to nutrient leaching.

Soil structure and texture

Surface soil porosity is critical in determining the rate at which rain can infiltrate into soil and carry nutrients with it away from the rooting zone. There, small pores retain soil solution by capillarity, reducing leaching and crop water stress. Amounts of leached nitrate are greater on coarser-textured soil, or when hydraulic conductivity and infiltration rates are higher (Melgar et al, 1992; van Es et al, 2002, 2006). This suggests that biochar should have the greatest value for reducing nutrient leaching in sandy soils. However, in certain cases differences between soil textures could be linked to changes in denitrification rates and the loss of N gases, and not to changes in water percolation (van Es et al, 2002). The flow of nutrient-carrying water through soil is also greatly influenced by the soil's macropore structure, which allows water to avoid permeating the soil matrix and can cause rapid flow down the profile (Ghodrati and Jury, 1990; Flury et al, 1994; Renck and Lehmann, 2004), even through paddy rice soil where surface structure is periodically destroyed (Sander and Gerke, 2007). The physical characteristics of biochar suggest that it can change the pore size

distribution of the soil and possibly change percolation patterns, residence times of soil solution and flow paths.

Rainfall patterns

As expected, a linear relation exists between depth of movement of nitrate, which is highly mobile in soil, and cumulative rainfall (Melgar et al, 1992). Biochar may therefore be most effective in reducing leaching losses in regions of high rainfall. Rainfall patterns, through their effect on N mineralization as well as leaching, influence surface soil N availability, at times more so than soil drainage class (Sogbedji et al, 2001; van Es et al, 2006). Year-to-year variability in weather, most importantly rainfall patterns, have often been observed as explaining the most variability in leaching patterns at single sites.

Soil and soil solution chemistry

The chemistry of clays, soil minerals (e.g. metal oxides, carbonates), organic matter, as well as the chemistry of elements in the soil solution affect leaching. For example, whether a nutrient is organic or inorganic, the size of the molecule it is a part of and its charge properties will dictate how it will interact with charges on constituents of the soil matrix. Positively charged ions or molecules can be adsorbed to negatively charged clays and soil organic matter (Brady and Weil, 2008), under the process known as cation exchange capacity (CEC). Biochar displays a high CEC, and its application to soil will contribute negative charge. In a pot experiment, soil-applied biochar increased soil pH by 0.36 and 0.75 units with and without fertilizer, respectively (Lehmann et al, 2003) in acid soil.

Soil biology and nutrient cycles

Leaching of nutrients must be considered in the context of the general cycling of nutrients, where fluxes are partitioned among denitrification and other gaseous losses (in the case of N), fixation, precipitation, immobilization, mineralization and leaching. Biochar has been found to reduce N₂O gaseous losses by more than half under maize (Rondon et al, 2006). Biochar application to soil alongside labile organic N amendments led to increased net rates of nitrification in laboratory experiments using forest soils (Berglund et al, 2004; Gundale et al, 2007), most likely due to the sorption of nitrification-inhibiting phenolic compounds by biochar. However the implications of these processes for N leaching are unclear.

Evidence for relevant characteristics of biochar

Biochar produced from different feedstocks and under different conditions exhibits a range of physical and chemical properties (Treusch et al, 2004; Mermoud et al, 2006; Krzesinska and Zachariasz, 2007), which will have impacts on nutrient leaching, once it is applied to soil.

Physical properties

Water holding capacity in soils is partly determined by organic matter contents, and organic matter amendments generally increase the water holding capacity of soil. Humic substances derived from coal have been found to increase the water holding capacity as well as aggregate stability of degraded soil (Piccolo et al, 1996). Empirical evidence suggests that sandy soils amended with biochar will experience an increase in water content, while the effect could be opposite in clay soil (Tryon, 1948). Lysimeter work using a biochar-amended clay soil from the Amazon showed that water percolation was related to crop growth: less water percolated from

soil/biochar mixtures than pure soil, in accordance with increased crop growth when biochar had been added (Lehmann et al, 2003). This indicates that in clay soils, biochar can indirectly reduce water mobility through increased plant biomass and evaporative surfaces, while in sandy soils this mechanism can be complemented by the direct retention of water by biochar.

The bulk density of biochar is lower than that of mineral soils. This suggests that its application to soil will modify soil hydrology in line with application rates because of changes in porosity, and on the long term aggregation. While fresh biochar alone may not influence the aggregation of 2:1 clays (Watts et al, 2005), it is possible that aggregation will be favoured by interactions with soil organic matter and microorganisms (Warnock et al, 2007) or by additions of biochar and labile organic matter in combination, since organic molecules sorb to appropriate biochar domains (Pietikäinen et al, 2000; Smernik, 2005; Tseng and Tseng, 2006; Yu et al, 2006). Biochar effects on soil aggregation will among others be linked to its surface charge characteristics, which develop gradually by weathering and are affected by overall soil pH (Cheng et al, 2006). Improved soil aggregation promotes water infiltration, thus the amount of water moving through the soil as opposed to running off could be increased. This may result in increased leaching for soluble and mobile ions like nitrate.

The total porosity of biochar is high and varies with production method and feedstock. For soil, no universal pore size categorization system is widely accepted (Hayashi et al, 2006), however proposed classifications are expressed in the micrometre range (Luxmoore, 1981; Soil Science Society of America, 1997; Lal and Shukla, 2004). Water is usually considered mobile when present in pores of sizes in the order of a few tens of micrometres, e.g. 30 μm (Brady and Weil, 2008). According to the definition of the Soil Science Society of America (1997), macropores (> 80 μm)

can contribute to the rapid flow of water through soil by gravity, and after heavy rainfall can lead to pronounced leaching events (Flury et al, 1994; Renck and Lehmann, 2004). Mesopores (30-80 μm) will allow water to move in response to matric potential differences (i.e. from “wetter” to “drier” areas), while micropores (< 30 μm) hold water in place. Pore sizes for biochar are usually reported according to standard IUPAC value ranges, i.e. micropores are < $2 \times 10^{-3}\mu\text{m}$ diameter, mesopores 2-50 $\times 10^{-3}\mu\text{m}$, and macropores > 50 $\times 10^{-3}\mu\text{m}$ (e.g. Bornemann et al, 2007). Pore size classification systems make comparisons between biochar and soil difficult, and pore sizes within biochar depend on the parent material and the charring conditions. However, activated biochar has been found to contain a large proportion (over 95%) of micropores (< $2 \times 10^{-3}\mu\text{m}$) (Tseng and Tseng, 2006) and biochar porosity likely contributes to nutrient adsorption by the trapping of nutrient-containing water held by capillary forces as in soil micropores. If 95% of biochar pores are < $2 \times 10^{-3}\mu\text{m}$ in diameter, the mobility of soil water through the matrix after biochar application will be reduced. In sandy soil where the volumetric amount of water held drops sharply as matric potential increases (i.e. as the soil dries), biochar particles may act similarly to clay and hold large volumes of immobile water even at elevated matric potentials. Nutrients dissolved in this water would thus be retained near the soil surface if water is immobile or moves slowly. Plants can access part of the nutrients in this retained soil solution, as they transpire and elevate soil matric potential.

Evidence suggests that biochar porosity contributes to nutrient adsorption directly through charge or covalent interaction on a large surface area. The high porosity of biochar is accompanied by high surface areas (Figure 1.1), to which both hydrophobic and hydrophilic molecules can sorb depending on the functional groups displayed by the biochar. Surface area generally increases with charring temperature, and activation processes can drastically increase surface area further. It is clear from

Figure 1.1 that biochar must be produced at temperatures at or above 500°C or be activated, if its application to soil is to immediately result in increased surface area for the direct sorption of nutrients.

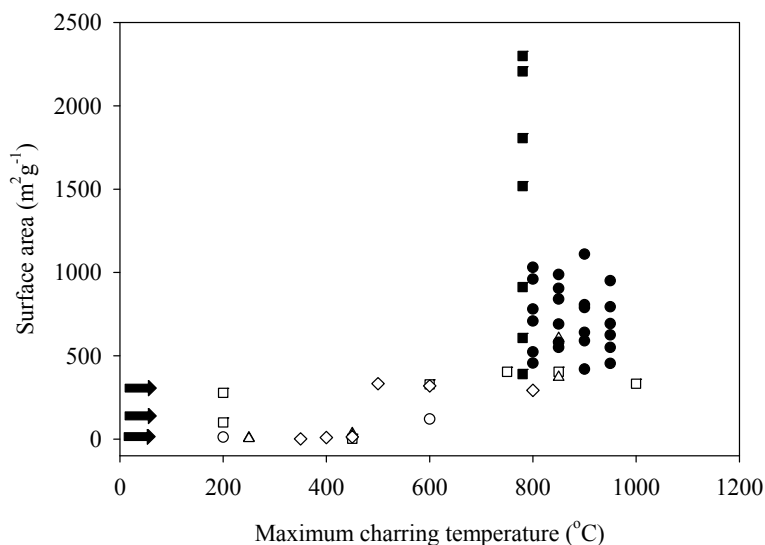


Figure 1.1. Surface area of activated and non-activated biochar produced at varying temperatures. Non-activated hardwood biochar (open symbols): Δ Bornemann et al (2007); \diamond Lehmann (2007); \square Nguyen et al (2004); \circ Macias-Garcia et al (2004). Activated (filled symbols): \bullet Hardwood, Macias-Garcia et al (2004); \blacksquare Sugarcane pith, Tseng and Tseng (2006). Points above $1500\text{m}^2\text{g}^{-1}$ were obtained by activation using KOH/biochar weight ratios $> 3:1$ at 780°C . Arrows indicate, for comparison, the surface area of a 72% clay (top), 90% sand (bottom) soil, which were textural extremes and the average (middle) for 33 US soils studied by Cihacek and Bremner (1979). Surface area for all biochars was measured by N_2 absorption and the Brunauer, Emmett, and Teller (BET) equation. Since the surface area of soils increases with increasing moisture content and the N_2 -BET method uses dry soil, surface area data for soils were obtained using the ethylene glycol monoethylene ether (EGME) method on moist samples.

Apart from impacts on the movement of the soil solution and direct interactions with nutrients dissolved in it, the size of biochar particles may also influence leaching potential. Leaching of organic and inorganic nutrients sorbed to larger biochar particles may be either reduced or facilitated by colloidal transport with small particles as they themselves travel through the soil profile. Negatively charged colloids were shown to facilitate the downward migration of metals and organic pollutants through soil (Karathanasis, 1999; Sen and Khilar, 2006). Particle sizes of biochar produced for soil application can be controlled to some extent. Very small particles (e.g. $< 2\mu\text{m}$, size of clay particles) will most likely be present in the material after pyrolysis or created during transportation and application (Figure 1.2). After soil application, rain impact, chemical weathering, and physical disturbance from biota will also result in fine biochar particles. Soil porosity varies widely among soils, and particles of up to $10\mu\text{m}$ were found to move through a structured sandy loam in the laboratory (Jacobsen et al, 1997), particles with a median size of $2\text{-}5\mu\text{m}$ moved from topsoil through a sandy loam in the field (Laubel et al, 1999), and natural colloids of up to $200\mu\text{m}$ were mobilized through a coarse disturbed soil (Totsche et al, 2007), also in the field. The data compiled in Figure 1.2 show that fine biochar particles smaller than values mentioned above can represent a large proportion, and these particles are subject to movement through the soil profile and can act as agents of facilitated transport of nutrients.

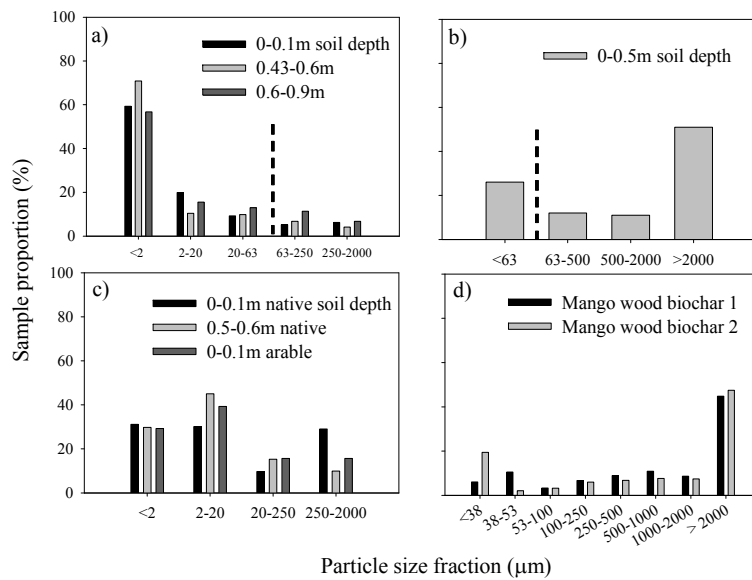


Figure 1.2. Particle size distribution of naturally-occurring chars a) in fertilized intensive crop soil, Germany (Brodowski et al, 2007); b) in burned savannah soil, Zimbabwe (Bird et al, 1999); c) in a Russian steppe Mollisol (Rodionov et al, 2006); and d) hardwood biochar produced traditionally in mounds for soil application, hand ground to pass through a 0.9mm sieve (Chapter 2). Bars to the left of vertical dashed lines ($< 200\mu\text{m}$) represent the proportion of sample particles which may be translocated through soil profiles.

Chemical properties

Aged biochar has a high CEC as shown by high concentrations of negative charges on biochar surfaces, as well as the adsorption of charged organic matter to biochar surfaces (Liang et al, 2006). As is the case with clays, this high CEC may promote soil aggregation where organic matter and minerals bind to each other and to biochar. Abiotic processes are more significant in driving the oxidation of fresh biochar surfaces than are biotic processes on the short term (i.e. months), with higher temperatures leading to the oxidation and creation of negative charge on deeper layers

of biochar particles (Cheng et al, 2006), thus variation occurs between different climate regimes (Cheng et al, 2008). Fresh biochar may also sorb anions, and the CEC and anion exchange capacity (AEC) vary with overall soil pH, and age and weathering environment of biochar (Cheng et al, 2008). The intrinsic pH of biochar materials can be acidic or basic.

Fresh biochar, with low surface oxidation, is hydrophobic and sorbs hydrophobic molecules such as organic contaminants (Lebo et al, 2003; Bornemann et al, 2007). Organic, hydrophobic forms of nutrients (e.g. N, P, S) could also become sorbed to biochar particles, and in fact this might effectively reduce their surface area at the molecular scale by steric hinderance, and block the subsequent direct adsorption of organic and inorganic nutrients directly to biochar particles. This effect will depend on the size and composition of the macro-molecules and the temperature (Kwon and Pignatello, 2005; Pignatello et al, 2006). Since molecules of various sizes and chemical characteristics could sorb onto biochar particles, adsorption is likely whereby inorganic molecules sorb directly to biochar surfaces, to minerals or organic matter attached to biochar, or precipitate on biochar surfaces, for example Ca-phosphates. As mentioned above, soil aggregation could be modified in this way, but it is not clear to what extent and how rapidly this process occurs.

Dünisch et al (2007) noticed a larger mass of N, P and K sorbed to wood biochar/ash samples after these materials were dipped in a commercial inorganic fertilizer solution compared to “fresh” wood feedstock (Figure 1.3). However, the amount of water absorbed by these materials was not taken into account and thus the greater nutrient sorption might result partly from greater amounts of solution and dissolved nutrients held in the porous biochar before drying and analysis. Still, given different proportional increases for each nutrient, it seems that water absorption alone did not explain observed differences. Smaller sized particles generally sorbed more

nutrients than larger ones, suggesting an effect of surface area. Also, up to 52% of the P in dairy farm effluent was removed by chicken litter biochar (made at 500°C, activated) in a 100:1 effluent:biochar mixture at 50°C (Downie et al, 2007). Phosphorus likely precipitated along with Ca on the alkaline biochar matrix. Importantly, 70% of this removed P could subsequently be extracted from the biochar using CaCl₂, suggesting it would nevertheless remain available to plants (Neri et al, 2005). While reducing nutrient leaching losses is valuable, retained nutrients should equally remain available for plant growth. This is not the case when P in bulk soil is irreversibly adsorbed by amorphous metal oxides in acid soils (Brady and Weil, 2008). In this experiment the sorption of NH₄-N to biochar was not found to be significant or to follow any trends.

Lehmann et al (2002) produced adsorption isotherms for P, NH₄ and NO₃ on fresh, laboratory-produced biochar and biochar-manure mixtures (Figure 1.4). This work clearly shows that phosphate was adsorbed readily by both the biochar and biochar/manure mixture, while nitrate was not adsorbed at all. Ammonium had an intermediate behaviour, with the biochar-manure mixture adsorbing more than pure biochar. Phosphorus was also shown to adsorb vigorously to biochar made from pine and surface litter at 561-700°C (Beaton et al, 1960).

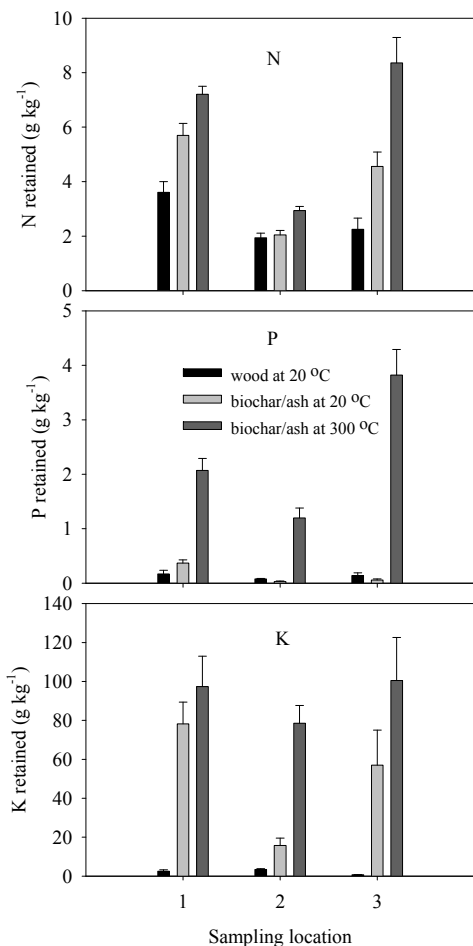


Figure 1.3. Compilation of results obtained by Dünisch et al (2007) for wood feedstocks and biochar/ash mixtures obtained after pyrolysis. A given weight of substrates at 20 or 300°C in mesh bags was submerged in a nutrient solution for 30min. Data are for particles < 5mm, the smallest size class in the report.

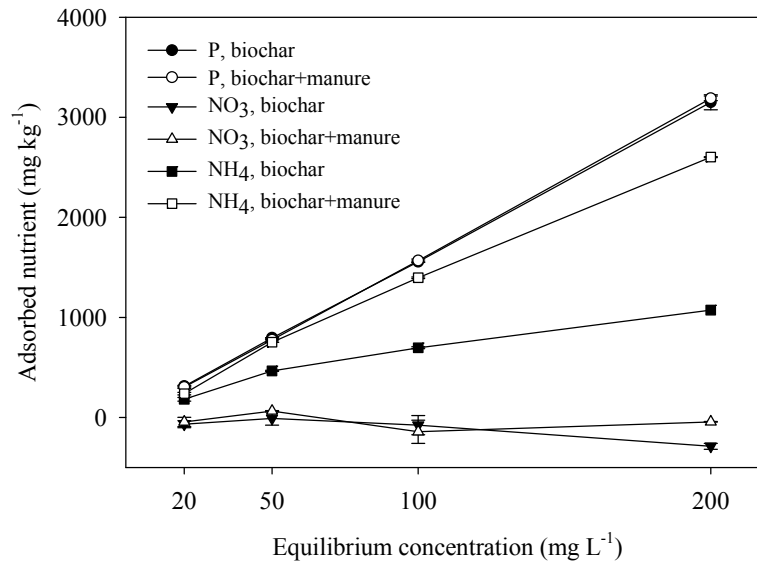


Figure 1.4. Adsorption isotherms for biochar from tree *Robinia pseudoacacia* L., with and without manure (Lehmann et al, 2002). Adsorption isotherms were obtained by equilibrating 3g soil in a 20mL centrifuge tube with 10 mL solution containing 0, 20, 50, 100, or 200mg L⁻¹ of KH₂PO₄, KNO₃ or NH₄Cl. Ten percent azide solution was added to each tube to suppress microbial activity. The tubes were agitated on a horizontal shaker at room temperature (about 20°C) for one day. Samples were centrifuged at 5,000rpm (relative centrifugal force of 2,988g) for ten minutes and the supernatant was analyzed for phosphate using the molybdate ascorbic acid method, for nitrate and ammonium by segmented flow analysis (Lehmann et al, 2002).

Biochar interactions with soil biota

Soil-applied biochar particles harbour microorganisms, including bacteria (Pietikäinen et al, 2000) and mycorrhizal fungi (Ezawa et al, 2002; Saito and Marumoto, 2002). Such organisms often have a great impact on plant nutrition, for example through the mineralization of organic N into forms available to plants or susceptible to volatilization, and through improved P and Mg nutrition via extensive

fungal hyphal systems. Current data (reviewed by Warnock et al, 2007) indicate that biochar application is often followed by an enhancement of mycorrhizal communities in the rhizosphere coinciding with improved nutrient uptake by associated plants, thereby potentially reducing leaching. While reductions in gaseous N emissions have been observed in biochar-amended soil (Rondon et al, 2006), it is possible that N leaching and gaseous losses could also be favoured in certain cases where mineralization by bacteria occurs beyond the plants' N requirements, and if anaerobic conditions prevail around microorganisms because of changes in water retention. Nitrogen immobilization is not likely directly increased by biochar application, since the bulk of biochar carbon (C) is recalcitrant and not expected to immediately enter the C cycle, hence the C sequestration properties of biochar. Still, if present, easily mineralizable labile biochar domains could cause N immobilization on the short term (Gundale and DeLuca, 2007).

Magnitude and temporal dynamics of biochar effects on nutrient leaching

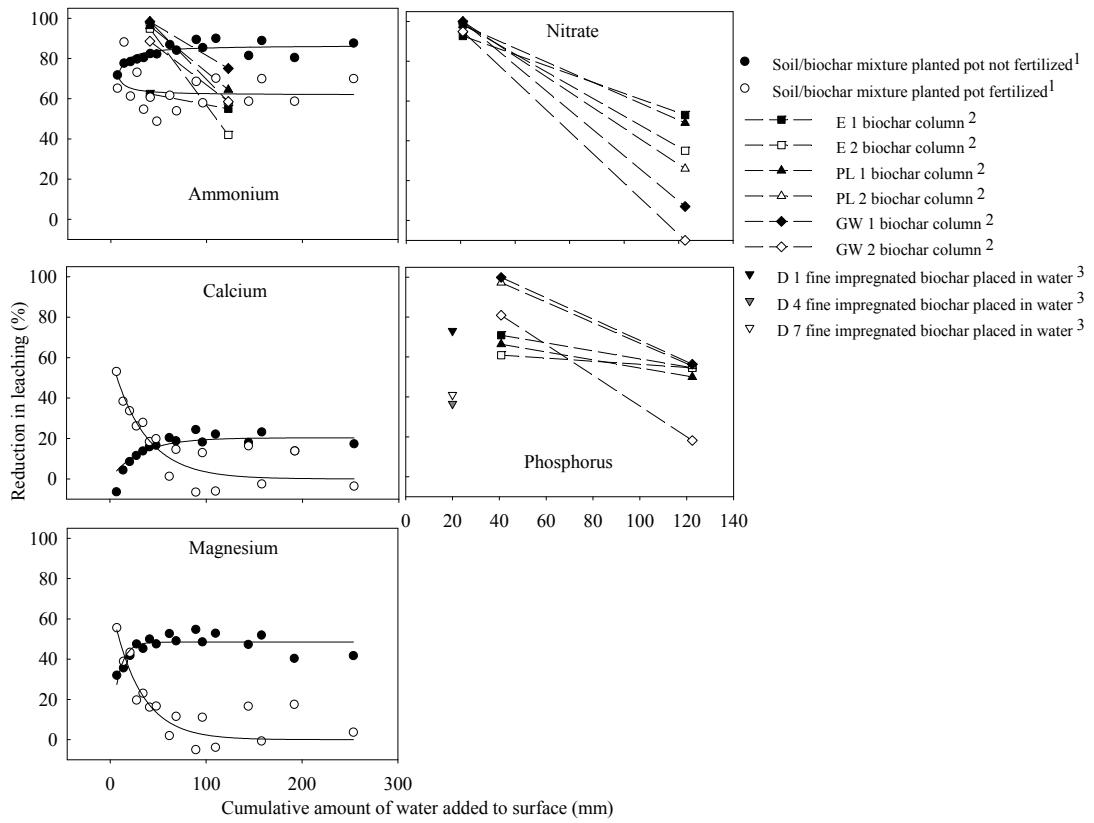
Currently, experimental work which assesses the impact of biochar on nutrient leaching is scarce. Some work has been carried out using biochar alone under laboratory conditions, and biochar/soil mixtures in the greenhouse as well as in the field. However results on nutrient leaching per se have not yet been reported for field experiments.

Direct nutrient leaching measurement in biochar/soil mixtures were undertaken only by Lehmann et al (2003), using pot lysimeters in the greenhouse (Figure 1.5). Biochar made locally near Manaus in the central Brazilian Amazon was mixed with a typic Hapludox, rice was seeded and fertilizer applied. Leaching of applied ammonium was generally reduced by more than 60% over 40 days of cropping rice,

compared to treatments not receiving biochar (Lehmann et al, 2003). Fertilization reduced the efficiency of biochar for nutrient retention, perhaps due to high amounts of nutrients being present. Leaching of Ca and Mg was also reduced during the first week, although absolute amounts were low. Leaching of K was not reduced since fresh biochar typically contains large amounts of K. Aged biochar with much greater CEC (Cheng et al, 2008) may have much greater retention capacity. Lehmann et al (2003) showed that in Amazonian Dark Earths (ADE) that contain large proportions of aged biochar, leaching of Ca was approximately 20% lower than in Oxisols with low biochar contents. At the same time, Ca availability on the exchange sites of ADE was more than double. It appears that aged ADE biochar resulted in greater nutrient availability while simultaneously exhibiting significantly reduced leaching losses.

Dünisch et al (2007) found that biochar/ash mixtures impregnated with fertilizer in the laboratory “leached” proportionally lower amounts of nutrients back into de-ionized water, when compared to equal weights of wood feedstock (Figs 1.5-1.6). Since amounts of nutrients retained by the biochar mixtures during impregnation were greater than for wood (Figure 1.3), actual amounts leached were similar for both material types. While smaller particles (< 5mm) retained greater amounts of nutrients, they also released proportionally more nutrients than large particles. The kinetics of sorption on outer surfaces versus internal pores might explain this, where smaller particles with greater outer surface areas released more nutrients than larger particles where more nutrients were retained inside pores.

Figure 1.5. Leaching reduction data compiled from the literature. 1: Rice grown in lysimeters filled with Oxisol alone or a mixture of soil and wood biochar, with and without fertilization with NPK (Lehmann et al, 2003); 2: Reduction is for NPK fertilizer granules placed on top of columns packed with biochar, compared to a control column packed with acid-washed sand. E 1: garden waste (GW) biochar made at 550°C, activated, enriched with N; E 2: GW biochar, same as previous with additional minerals; PL 1: poultry litter (PL) biochar made at 550°C, activated; PL 2: PL biochar made at 450°C, non-activated; GW 1: GW biochar made at 550°C, activated; GW 2: GW biochar made at 450°C, non-activated (Downie et al, 2007); and 3: Reduction is for biochar/ash mixtures compared to original wood feedstock (D1: *Pinus sylvestris* L. charred in a flash-pyrolysis plant for bio-oil production, Germany; D4: *Pinus taeda* L. combusted to heat kiln driers, Brazil; D7: *Cordia goeldiana* Huber same as previous), for particles < 5mm. Substrates in mesh bags were impregnated in an NPK solution, dried and placed in de-ionized water for 120min to assess nutrient desorption (Dünisch et al, 2007). Note: points on P graph for Dünisch et al (2007) were placed at an approximate value on the x-axis, as calculating actual volume was not possible.



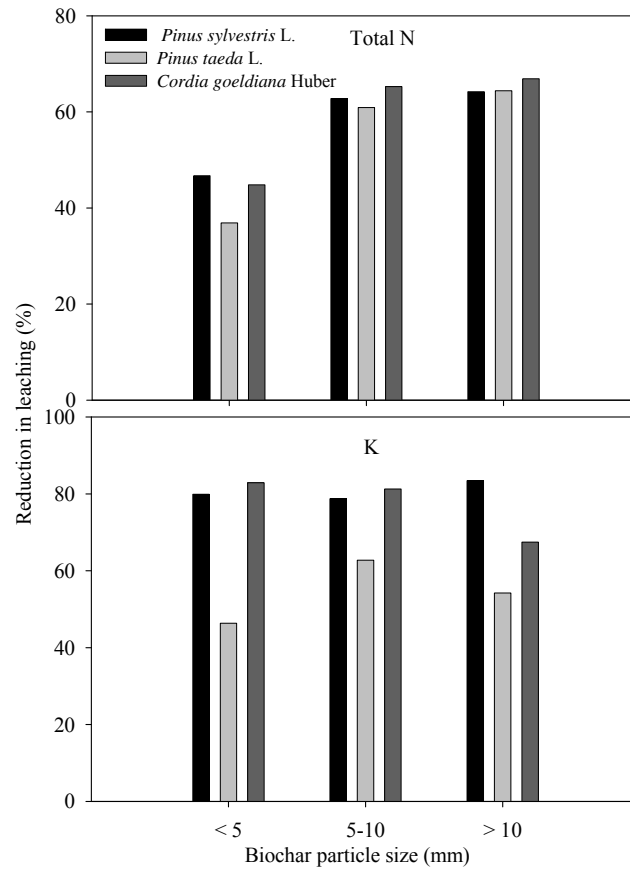


Figure 1.6. Reduction in leaching for nutrient-impregnated biochar particles of different sizes (Dünisch et al, 2007). See notes on methodology in caption of Figure 1.5.

Comparable data were obtained in preliminary laboratory work carried out by Downie et al (2007) on nutrient leaching through columns of fresh biochar without soil (Figure 1.5). However, biochars in this experiment did not retain any nutrients beyond 20 pore volumes (816mm water applied), which suggests that weak surface processes or water trapping in small pores were likely responsible for the nutrient retention. This mechanism alone would therefore not lead to long-term effects of biochar on nutrient leaching. Also, bases such as Ca, K and Mg were more abundant in leachate from biochar than acid-washed sand. This is expected since biochar

contains large amounts of these elements compared to sand, which were likely displaced due to their solubility and to maintain the electroneutrality of the leachate. For these freshly made biochars, oxidation is most likely not sufficiently advanced to create the negative surface charge observed in incubated or aged biochars (Cheng et al, 2006, 2008). Despite this, short-term retention of nutrients even by fresh biochars could still prove to be highly beneficial, for example during annual crop establishment, when fertilizer application is facilitated in the field but seedlings are still exclusively using nutrients available in the seed.

In the field, the recovery of fertilizer N in soil (0-0.1m depth), harvested material and crop residue was enhanced by the application of both biochar and compost. However, the enhanced N retention in compost-amended plots was mainly a result of higher crop production (retention in plant biomass) whereas on the biochar plots more N remained in the soil especially after the second growing season (Figure 1.7). These data only provide an assessment of total N losses, since the 80-90% of fertilizer-N that were not recovered could have left the system through both gaseous losses and leaching below 0.1m, which were not directly measured. Still, deep N leaching in this specific soil was found to be highly significant (Renck and Lehmann, 2004), suggesting that biochar has potential to reduce leaching also on the longer term, through more complex mechanisms involving interactions with the soil matrix.

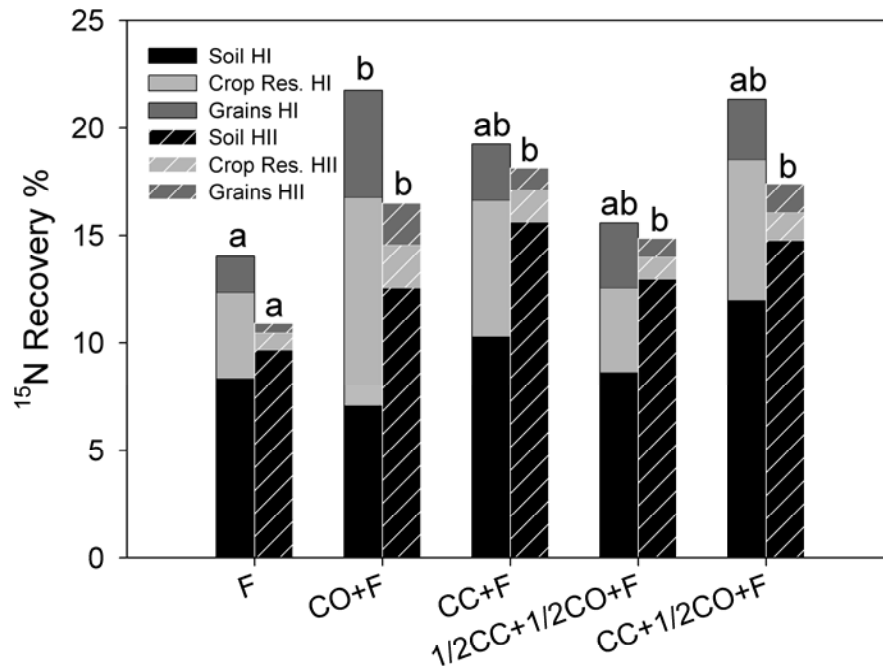


Figure 1.7. Recovery of ^{15}N -labeled fertilizer applied to an Oxisol in the Brazilian Amazon during two growing seasons (HI, HII). Crop was Sorghum sp. F: synthetic fertilizer; CO: compost; CC: biochar. Organic amendments were applied and soil was sampled to 0.1m depth. Rate of biochar application was 11 t ha^{-1} , and compost was applied at the same C-based rate. The last treatment received 1.5 times the C applied to others. Different letters represent significant differences ($p < 0.05$; $n = 5$) between treatments (Steiner et al, 2008). In HII letters for crop residue and grain recovery were the same and are only shown once.

Based on the data presented here, biochar is effective in reducing the leaching of all nutrients tested, at least in the short-term. Several studies show that leaching of P, ammonium- and nitrate-N, which are usually most limiting to crop growth, was reduced by over 50% initially, and in one case after 250mm of water were applied to

the surface (Lehmann et al, 2003). Calcium and Mg were also retained after biochar addition without fertilizer (20% and 40% leaching reduction after 250mm water applied, respectively). When NPK fertilizer was applied, biochar addition significantly reduced Ca and Mg leaching during the first week only. Potassium retention was also high with impregnated biochar reported by Dünisch et al (2007). However, Lehmann et al (2003) found that K in leachate increased after the addition of biochar to soil, and attributed this to the high K content of the biochar itself.

Conclusions and research needs

We reviewed data which suggest biochar application to soil will affect nutrient leaching through several mechanisms, for example by increasing the retention of water in the rooting zone, by directly binding or sorbing nutrients or by interacting with other soil constituents, and by facilitating the movement of attached nutrients when fine biochar particles are transported in percolating water. These mechanisms may either increase or decrease leaching. However, data available to date suggest that biochar does sorb organic and inorganic molecules and, in the case of inorganic nutrients, retains them against leaching losses. Table 1.1 summarizes biochar characteristics relevant to nutrient leaching and associated leaching reduction mechanisms, and indicates the extent to which each has been demonstrated. Figure 1.8 illustrates these mechanisms schematically. Long-term leaching reduction has not been shown directly, and some experiments presented here focused on pure biochar systems and inorganic nutrients, where microbes were excluded or not a study factor.

Research on biochar effects on leaching in agronomic settings must be carried out in soil-biochar and soil-biochar-plant systems, in the laboratory as well as in the field and ultimately on a watershed scale using an ecosystem approach. Clearly biochar interacts with other soil constituents, and biochar-soil mixtures will behave

differently than pure biochar, especially over long periods of time. Increased plant productivity also needs to be part of leaching assessments, because this alone can translate into reduced nutrient leaching through increased uptake. Both fresh and aged biochar should be tested since the oxidation of these materials varies. Also, the effect of various application methods for biochar as well as nutrients should be tested.

The mechanisms that explain nutrient retention by biochar require investigation, since this information will likely allow the production of specific biochar for specific uses (e.g. for nutrient management in acid, or degraded soil). As mentioned, interactions between biochar and soil are likely significant, complex, and can drastically modify the chemical and physical characteristics of biochar surfaces and thus its interaction with nutrients. These interactions require further study. Also, the beneficial effect of biochar on leaching should be related to other factors that impact leaching in the field such as rainfall or crop management.

We consider that biochar could become a useful tool for the complex task of managing crop nutrition and its environmental impacts. Managing soils with biochar to reduce nutrient leaching would bring a dual benefit of decreasing applied fertilizer requirements as well as mitigating the environmental effects of nutrient loss. Reduced fertilizer applications not only decrease environmental concerns of non-point source pollution by agriculture but also translate into reduced C emissions from the production and transport of synthetic fertilizers.

Table 1.1. Proposed biochar characteristics affecting nutrient leaching, related mechanisms and degree of certainty associated with each process.

Mechanism	Impact on leaching		Biochar characteristic ¹			Leaching impact mechanism ²			Source(s)
	Increase	Increase or decrease	Proven	Strong evidence	Not proven	Proven	Strong evidence	Not proven	
Biochar's negative surface charge directly retains positively-charged nutrients		For positively charged ions and domains of nutrient-containing organic matter	•				•		Liang et al (2006); Downie et al (2007)
Biochar increases the soil's water-holding capacity		Extent will vary with soil texture		•				•	Tryon (1948)
Biochar leads to increased soil aggregation	•				•			•	N/A
Biochar increases microbial biomass and nutrient cycling	•				•		•		Reviewed by Warnock et al (2007); Steiner et al (2008)
Sorbed nutrients are preferentially transported by biochar particles	•				•			•	N/A
Fresh biochar sorbs nutrients in hydrophobic organic matter				•				•	Lebo et al (2003); Smernik (2005); Bornemann et al (2007)

¹Degree of certainty for this characteristic of biochar when applied to soil

²Degree of certainty in attributing this mechanism to changes in leaching by biochar

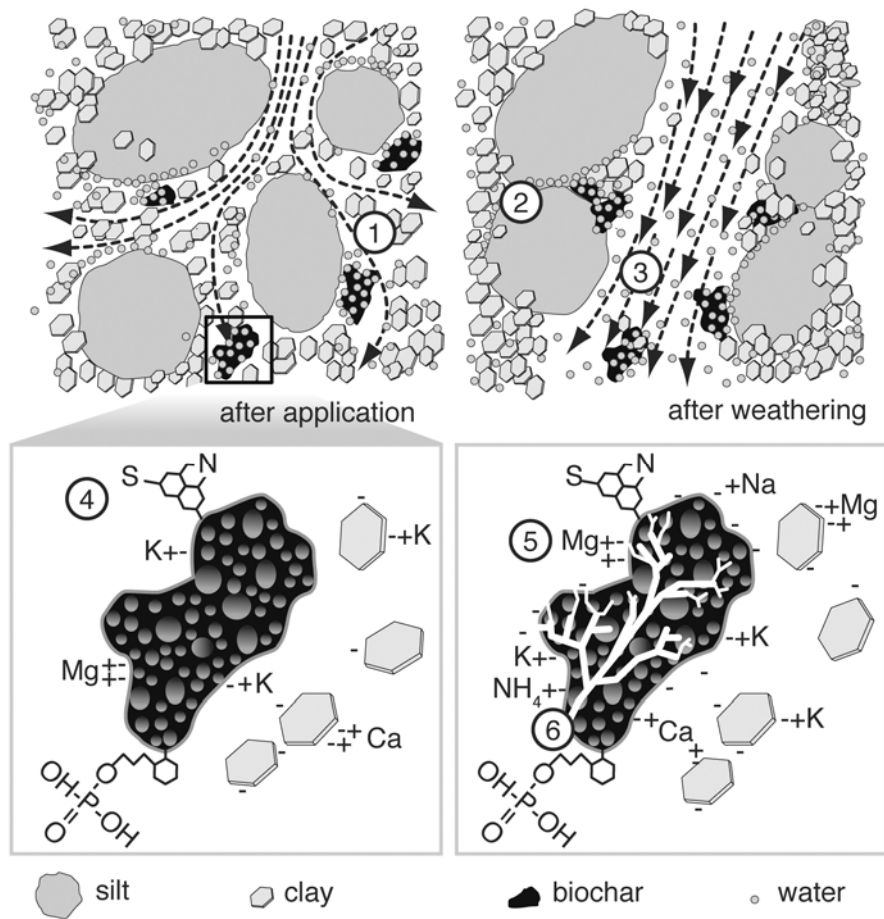


Figure 1.8. Schematic representation of proposed biochar effects on nutrient leaching. Upon biochar application to soil, water retention increases because porous biochar particles retain water and reduce its mobility (1). After weathering, soil aggregation is improved as biochar binds to other soil constituents (2), and preferential flow of water occurs as well as the facilitated transport of biochar particles (3). At a smaller scale, newly applied biochar sorbs hydrophobic, organic forms of nutrients (4). After weathering, the surface charge of biochar increases thus improving cation exchange capacity (5), and soil biota is enhanced (6). This illustration is not strictly to scale, and water is not shown in the bottom panels.

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CHAPTER 2

FATE OF SOIL-APPLIED BLACK CARBON: DOWNWARD MIGRATION, LEACHING AND SOIL RESPIRATION

Abstract

Black carbon (BC) is an important pool of the global C cycle, because it cycles much more slowly than others and may even be managed for C sequestration. Using stable isotope techniques, we investigated the fate of BC applied to a savanna Oxisol in Colombia at rates of 0, 11.6, 23.2 and 116.1 t BC ha⁻¹, and also its effect on non-BC. During the rainy seasons of 2005 and 2006, soil respiration was measured using soda lime traps, particulate (POC) and dissolved organic carbon (DOC) moving by saturated flow was sampled continuously at 0.15 and 0.3 m, and soil was sampled to 2.0 m. Black C was found below the application depth of 0-0.1 m in the 0.15-0.3 m depth interval, with migration rates of 52.4 ± 14.5, 51.8 ± 18.5 and 378.7 ± 196.9 kg C ha⁻¹ yr⁻¹ (±SE) where 11.6, 23.2 and 116.1 t BC ha⁻¹, respectively, had been applied. Over two years after application, 2.2% of BC applied at 23.2 t BC ha⁻¹ was lost by respiration (mean residence time of about 600 years at 26°C), and an even smaller fraction of 1% was mobilized by percolating water. Carbon from BC moved to a greater extent as DOC than POC. The largest flux of BC from the field (20-53% of applied BC) was not accounted for by our measurements and is assumed to have occurred by surface runoff during intense rain events. Black C caused a 189% increase in above-ground biomass production measured 5 months after application (2.4-4.5 t additional dry biomass ha⁻¹ where BC was applied), and this resulted in greater amounts of non-BC being respired, leached and found in soil for the duration of the experiment. These increases were quantitatively explained by estimates of greater

below-ground soil OC turnover with BC addition. Since losses of BC by respiration are expected to decrease even further as its labile fractions are metabolized, BC has the potential to sequester both BC and non-BC in soil.

Introduction

Black carbon (BC) is an important C pool globally. Despite relatively low global production rates of 0.05-0.27 Pg yr⁻¹ (Forbes *et al.* 2006) compared to terrestrial net primary productivity of about 60 Pg yr⁻¹, biomass-derived BC has been found to comprise about 30% of organic C in 76% of 57 soils from 6 orders worldwide (Skjemstad & Taylor 1999; Skjemstad *et al.* 1999a; Skjemstad *et al.* 1999b; Skjemstad *et al.* 1996). Therefore, BC cycles at a much slower rate than non-BC mainly due to its high content of aromatic, graphitic, or elemental refractory C (Glaser *et al.* 1998). Indeed, BC in deep-sea sediments has been found to be 2,400-13,900 years older than associated non-BC (Masiello & Druffel 1998). Black C has also been observed to represent the oldest C fraction in soils (Pessenda *et al.* 2001). Understanding the stability of BC in soil is crucial in order to balance the global C budget (Czimeczik & Masiello 2007). Managing BC for actively increasing the long-term C sink of atmospheric CO₂ in the form of BC from biochar in soil has been proposed by Lehmann *et al.* (2006) and also relies on accurate information about its stability.

However, very little is known about the stability of BC in soil. Both rapid (Bird *et al.* 1999; Brodowski 2004) and slow (Shindo 1991) mineralization of biomass-derived BC was reported. A limitation of the few reported incubation studies is their short time of a few weeks to months or in some cases the use of artificial media for incubation (Baldock & Smernik 2002; Hamer *et al.* 2004; Shindo 1991). Published field experiments show generally rapid disappearance rates (Bird *et al.* 1999, Hammes *et al.* 2008; Nguyen *et al.* 2008) which may be explained by the fact

that a full mass balance was not possible and some BC loss may have occurred by mass transport rather than mineralization.

Despite the observed long-term stability of BC, significant initial mineralization is likely to occur. Rapid oxidation over several months of incubation was reported for experimentally-produced BC (Cheng *et al.* 2006, 2008). BC generated in the laboratory is likely to contain a range of compounds exhibiting varying stability (Lehmann 2007). During the first 10 years after BC deposition following forest fires in Kenya, the O/C ratio significantly increased on BC surfaces (Nguyen *et al.* 2008), and 100-year-old BC in both Kenya and the US was found to be significantly altered, bearing abundant carboxyl groups (Hockaday *et al.* 2007, Nguyen *et al.* 2008). The dynamics of BC mineralization during the first years after deposition to soil have not been studied up to now.

Several studies have argued that BC might stimulate the rates of loss of non-BC soil C (Pietikäinen *et al.* 2000; Wardle *et al.* 2008), and proposed mechanisms for this include priming of decomposition of labile C (glucose) (Hamer *et al.* 2004), and the sorption by BC of compounds which inhibit microbial growth, such as phenols (Gundale & DeLuca 2007). No data have been reported that test these processes under field conditions in mineral soil.

In addition to mineralization to CO₂, BC may be transported in the landscape (Rumpel *et al.* 2006a, 2006b; Hockaday *et al.* 2007; Guggenberger *et al.* 2008) both laterally and vertically through soil. While BC has been identified in dissolved (Kim *et al.* 2004; Guggenberger *et al.* 2008) and particulate (Dickhut *et al.* 2000; Mitra *et al.* 2002) organic C of natural river water, the magnitude of leaching with percolating soil water has not been quantified. Similarly unclear is whether BC moves primarily in dissolved or particulate form. Several authors have identified surface-deposited BC in subsoils (Brodowski *et al.* 2007; Dai *et al.* 2005; Rodionov *et al.* 2006; Leifeld *et al.*

2007). Yet while the BC was found to be associated with coarse silt and sand (Brodowski *et al.* 2007), actual mechanisms for its movement have not been established. Black C, alone or associated with mineral fractions, could move through soil by facilitated transport in macropores. Particles with a median size of 2-5 μm moved from topsoil through a sandy loam in the field (Laubel *et al.* 1999), and natural colloids of up to 200 μm were mobilized through a coarse disturbed soil (Totsche *et al.* 2007), also in the field. Black C found in soil has very similar size distributions, with most of the particles typically being smaller than 50 μm (Skjemstad *et al.* 1996).

This work was undertaken to assess the fate of biomass-derived BC after addition to surface soil in the field over two years. Our hypotheses were: (i) CO_2 evolution will initially increase due to rapid mineralization of the labile fraction of BC; (ii) longer-term mineralization of BC over two years will be negligible due to its high stability; (iii) BC will move rapidly into the subsoil; and (iv) BC will mainly travel in dissolved form through a poorly aggregated clay Oxisol.

Materials and methods

Field experiment

Experimental plots were established at Matazul farm in the Llanos Orientales non-flooded savanna region of Colombia (N 04°10'15.2", W 07°36'12.9"). The soil in the experimental plots is an isohyperthermic kaolinitic Typic Haplustox sandy clay loam (Soil Survey Staff 1994), which developed from alluvial sediments originating in the Andes (Rippstein *et al.* 2001). Average annual rainfall measured approximately 200 km northeast of the plot is 2200 mm, and 95% of precipitation falls between April and December. A marked dry season occurs between January and March, and average annual temperature is 26°C. Based on stable C isotope signatures, present-day native C_4 vegetation dominated the area for a very extensive period, perhaps since the Late

Glaciation Period (Behling & Hooghiemstra 1998). Trees are found almost exclusively along waterways, except in areas where fire control has been practiced in modern times. This C₄ vegetation results in $\delta^{13}\text{C}$ values for soil of -10.9‰ to -13.5‰ up to a depth of 2 m as measured in this experiment.

The BC applied to the plots was produced in a controlled manner, in order to provide sufficient amounts for a replicated experiment that included high application rates. BC material 1 was produced in December 2004 from prunings of old mango (*Mangifera indica* L.) trees, with a resulting $\delta^{13}\text{C}$ value of -29‰ (Table 2.1). A mound of tightly packed logs (approx. 2 m high, 5 m diameter) was formed, covered with dry grass and soil, and ignited through a tunnel at the base. Black C was then ground by hand using a metallic disk pestle, to pass through a 0.9 mm sieve.

Table 2.1. Properties of BC applied to a Colombian savanna Oxisol. Values are averages of two analytical replicates.

		BC material	
		1	2
pH	(H ₂ O)	10.14	10.07
pH	(KCl)	8.92	8.74
Total C	%	71.7	63.5
$\delta^{13}\text{C}$	‰	-28.86	-28.20
Total N	%	0.26	0.32
C/N		280	197
H/C		0.022	0.027
O/C		0.22	0.23
Ash	%	8.8	12.0
Ca ¹	mg g ⁻¹	2.926	6.435
Mg ¹	μg g ⁻¹	291.0	184.5
P ¹	μg g ⁻¹	259.2	116.3
K ¹	mg g ⁻¹	3.304	2.612
CEC	mmol _c kg ⁻¹	235.2	248.4

¹Available nutrient contents

At the onset of the dry season in December 2004, BC was incorporated to soil under native savanna vegetation which to our knowledge had never been tilled or

cropped. The slope of the plot was not measured but is estimated to have been at most 5%. The site was mowed, and disked to break up the soil. A randomized complete block design was applied, with plots measuring 4 by 5 m, using 3 replications. Black C application rates were 0, 11.6, 23.2 and 116.1 t BC ha⁻¹ ($n=3$). These rates correspond approximately to a 50% increase, doubling and five-fold increase in soil C, respectively. Skjemstad *et al.* (1999a) reported a maximum, conservative estimate of BC content in Australian soils of 28 t BC ha⁻¹ (at our soil's density and application depth), and the rate of 116.1 t BC ha⁻¹ brought the soil in the range of soil organic C (SOC) stocks found in BC-rich Amazonian *Terra preta* soils (147-506 t C ha⁻¹ m⁻¹) (Glaser *et al.* 2003). Black C was applied to each plot uniformly using rakes, and incorporated to 0.1 m with 2 disk harrow passes.

Soil sampling

On 13-16 December 2006, i.e. 2 rainy seasons after application, soil was sampled in all plots, in depth increments of 0-0.15, 0.15-0.3, 0.3-0.6, 0.6-1.2, and 1.2-2 m. Sampling was carried out manually to 0.6 m with a ~50 mm diam. corer, and using a tractor-driven hydraulic version of the corer to 2 m. Composite samples were taken in each plot, from 5 random sampling locations to 0.6 m and 3 of these locations to 2 m, and hand mixed in buckets before a ~500 g subsample was taken for analysis. These subsamples were air-dried, crushed and passed through an aluminum sieve with 2 mm circular holes.

Soil was analyzed for particle size distribution by the hydrometer technique (Bouyoucos 1927), after dispersion with sodium hexametaphosphate. In July 2006, additional samples were taken for physical property analysis, using aluminum cores. In each plot, a small pit was dug to 0.3 m, and subsamples were taken from 2 opposite sides of pits from the surface, 0.15 and 0.3 m depths. Two cores (50 mm diameter, 50

mm high) were taken at each depth and from each side of the pits. For depths of 0.6, 1.2 and 2 m, we assumed no effect of BC application on physical properties and two soil pits located 5-10 m away from the experiment were used. In each of these pits, cores were taken from 2 profiles on the side closest to the experiment. This yielded a total of 4 samples for each sampling depth.

Bulk density was determined by oven drying at 105°C for 24 h for samples from all plots and depths (84 samples). Samples to 0.3 m depth from the control and 23.2 t BC ha⁻¹ treatments were used to determine saturated hydraulic conductivity with a constant head permeameter. Abnormally high saturated hydraulic conductivity data for one of the control plots, at 0.3 m, was removed before statistical analysis due to the observation of high termite activity in that plot and depth.

Carbon leaching measurement

In May 2005, free-draining lysimeters for measuring particulate and dissolved organic C (POC and DOC) in water moving by saturated flow were installed in the unamended control and the plots receiving 23.2 t BC ha⁻¹. These were inserted from soil pits at depths of 0.15 and 0.3 m, in “galleries” dug from the face of the pits and into the experimental plots. The lysimeters consisted of 0.15 m diam. Pyrex® glass funnels filled with quartz sand after washing with dilute HCl and NaOH, held by a glass wool plug. The C content of the sand after washing was 0.04% by weight. Two funnels were placed at each depth in each plot. Funnel pairs were fitted with plasticizer-free Tygon® (Formula 2075) hose and the hoses joined with a copper “T” fitting, itself draining into one amber glass bottle (washed as described above). This yielded a total of 24 funnels and 12 collection bottles (1 per depth per plot). Field collection bottles were checked at least weekly, and emptied when water had been collected. After each emptying of bottles, a solution of HgCl₂ was added as a biocide

to achieve a final concentration of 30 μM in a 1-L sample. Water sampling was carried out between May 2005 and January 2006 (yr 1), and March and December 2006 (yr 2). At each collection time, the height of water in the bottles was recorded and converted into volume using a curve created with the bottles. Upon collection, water samples were stored in borosilicate glass vials with Teflon®-lined caps and refrigerated at 4°C until analyzed. Samples were not refrigerated for 3-5 days while being shipped to the USA.

Depending on sample availability, 40-60 mL of each water sample was vacuum filtered using glazed ceramic Buchner funnels through binder-free glass filters (Whatman® GF/F; 13 mm diam., 0.7 μm pore size), which were then dried at 60°C for 24-36 h, cut up, and placed in tin cups for C and N analysis by dry combustion. Filtered water samples were freeze-dried in progressively smaller glass vials, and the solids weighed and prepared for C and N analysis by dry combustion.

For the calculation of total C leaching, the flux in each lysimeter was multiplied by C concentration in the sample. On two dates no samples were available for analysis for the control due to sample loss. For one of these dates the value was calculated as the average of the two adjacent dates, since these were very similar. In the other case, the date was dropped completely since no assumption of similarity could be made.

Soil respiration measurement

Static-chamber soda lime traps (after Edwards 1982) were used in order to determine the amount and isotopic composition of soil-respired CO_2 . Plastic rings obtained from cutting 20-L buckets (0.273 m diameter) were buried into the soil to a depth of 0.1 m on 13 June 2005. Continuous measurements were only carried out in

the second year after BC additions. To discern the short term response of respiration during the first year after BC addition, a second set of rings was installed on adjacent, identically treated but newly established plots on 11 May 2006, using BC material 2 which was produced similarly to material 1, except a soil trench was used instead of a mound (Table 2.1). Two rings were inserted at random locations away from the edges inside each replicate plot of the 23.2 t BC ha⁻¹ and control treatments, for a total of 24. The soil inside the rings was kept vegetation-free. Initially, 30 g of 4-8 mesh soda lime with indicator were exposed in each chamber, based on recommendations from Edwards (1982). After 5 weekly trials, the amount of soda lime was reduced to 10 g, since CO₂ absorption did not exceed 10% of the saturation value for this amount of soda lime (as specified by the manufacturer). The highest mass of CO₂ absorbed in a single trial represented 11% of the mass of soda lime used. Prior to field exposure, soda lime was dried in wide-mouth (44 mm) glass jars for 24 h at 105°C, capped tightly, cooled and then weighed on a scale with 1 mg resolution. Uncapped jars (“traps”) were placed on elevated pieces of wire mesh, on the soil inside each ring. Chamber tops were formed from the rest of the 20 L plastic buckets, sealed using a thick, tight rubber band covering the junction. Control traps were placed in the plots, in chambers of the same internal volume as the treatment chambers. However, they consisted of two bucket bottoms sealed together, i.e. no soil was exposed. Initially, one control trap was used in each plot (total 12 control traps), but after observing low variability among control traps, their number was reduced to 6 for the entire experiment. Sampling frequency was initially weekly, but was reduced to biweekly halfway into the rainy season.

The soda lime was left in the field for 24 h, removed and dried again for 24 h as above. Final mass was obtained and the difference between initial and final mass multiplied by 1.69 to correct for chemical water absorption during the process of CO₂

absorption (Grogan 1998). Control traps account for CO₂ absorbed during drying, manipulation, from the initial atmosphere inside the chamber and any additional CO₂ contributed by leaks in chamber seals. Absorbed CO₂ mass for the controls were averaged, and this average value subtracted from absorbed CO₂ mass in each treatment jar. The maximum standard error observed among control traps was 17% for the duration of the experiment. Trapped CO₂ mass was further corrected for time of exposure, which differed from 24 h by a maximum of 74 min over the duration of measurements.

The amount of CO₂ trapped depended in part on the diameter of the jars used to expose the soda lime. On four occasions it was necessary to use jars of different mouth size. To correct for this difference, a relationship was established between mouth size and CO₂ trapped by exposing jars of various sizes (30-44 mm mouth diam.) to ambient air for approximately 60 h. This trial was repeated four times and conversion factors averaged.

Exposed soda lime jars were sealed with Teflon® tape and stored in sealed drums with silica gel to absorb humidity. Samples were later composited into periods defined by peaks in amount of CO₂ absorbed over time (Figure 2.4). All samples for dates within individual peak absorption periods were combined, mixed, and a subsample ground for 90 s by hand using a mortar and pestle. For the first and last sampling dates, subsamples were combined but replicates and controls were analyzed separately, to provide more detailed data as well as information on variability. Approximately 0.2 g of ground composited soda lime was placed into acid-washed glass tubes, which were then sealed and evacuated. Three mL of phosphoric acid (40%) were added, and the tubes were set on an orbital shaker for 1 h. The headspace gas was then sampled using a syringe and transferred to evacuated single-use tubes.

Plant biomass sampling

Plant biomass was sampled on 19 October 2006, where all above-ground vegetation inside two 1-m² quadrats was sampled in three replicated plots of the control and 23.2 t BC ha⁻¹, on the new set of plots used for first year soda lime measurements. Vegetation was separated into grasses, forbs and legumes, and fresh and dry mass was determined after drying at 65°C for 72 h.

Analytical procedures

Air-dried BC and soil were ground using a ball grinder (Oscillating Mill MM400 by Retsch, Newtown PA, USA). Carbon and N contents and isotope ratios were determined by combustion on an isotope ratio mass spectrometer (IRMS; Europa Hydra 20/20 by Europa Scientific, Crewe UK) for solid samples, and gas on a GC-C-IRMS (Europa Geo 20/20-Orchid by Europa Scientific, Crewe UK). The H content of BC was measured by combustion on an oxygen analyzer (PDZ Europa 20-20, Heckatech HT by Europa Scientific, Crewe UK). Ash content was measured according to ASTM (2007). To measure pH, BC was mixed with either water or 1 N KCl in a 1:10 mass:volume ratio, stirred 3 times over 1 h and the pH was read with a gel epoxy electrode (Symphony by VWR, West Chester PA USA). Cation exchange capacity (CEC) of BC was determined by double extraction with 1 N ammonium acetate at pH 7, flushing with isopropyl alcohol followed by double 2 N KCl extraction. The ammonium content of the KCl extract was determined colorimetrically using a Technicon® flow analyzer (Technicon Corporation) and Nessler's reagent (Naude 1927). Available nutrients were extracted using 2.5 g BC and 25 mL Mehlich III solution (Mehlich 1984), followed by shaking for 5 min and filtering. Nutrients (K, Ca, Mg, P) were analyzed by ICP atomic emission spectrometry (IRIS Intrepid by Thermo Elemental, Franklin MA USA).

Calculations and statistical analyses

The amount of C contributed by BC and soil in samples was calculated from Equation 1.

$$\delta^{13}C_{A+B}(A+B) = \delta^{13}C_A A + \delta^{13}C_B B \quad [\text{Eq. 1}]$$

Where $\delta^{13}C_A = \delta^{13}C$ of corresponding control soil within field replicate

$$\delta^{13}C_B = \delta^{13}C \text{ of BC}$$

$$\delta^{13}C_{A+B} = \delta^{13}C \text{ of field sample}$$

A = amount of C derived from C₄ sources (soil-C)

B = amount of C from BC

A+B = total amount of C in field sample

When no corresponding control was available for a specific sample, the average $\delta^{13}C$ of controls for that date was used. When no controls were available for a specific date, the average $\delta^{13}C$ of controls at the closest date was used.

Statistical analyses were conducted using the general linear model procedure of SAS (SAS Institute Inc. 2003), and means separated using the *t*-test at $\alpha=0.05$.

Results

Soil

The highest rate of BC application reduced soil bulk density at the surface and 0.15 m depths ($P < 0.05$). Also, BC application significantly increased saturated hydraulic conductivity at the surface (Figure 2.1).

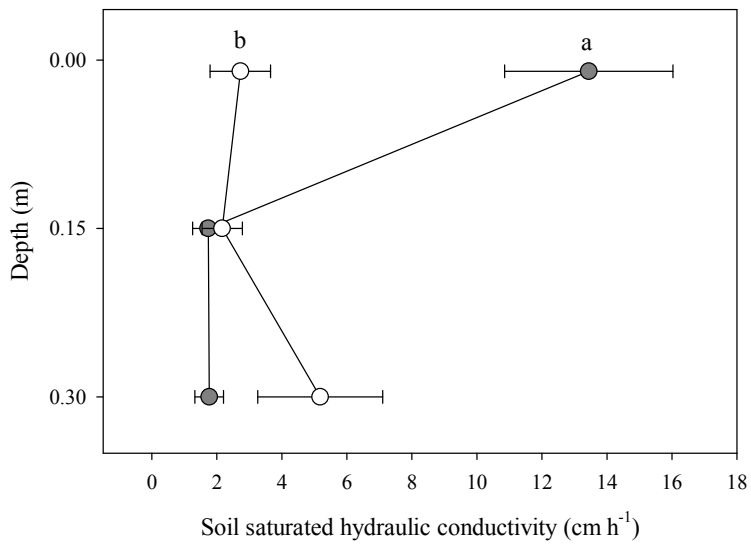
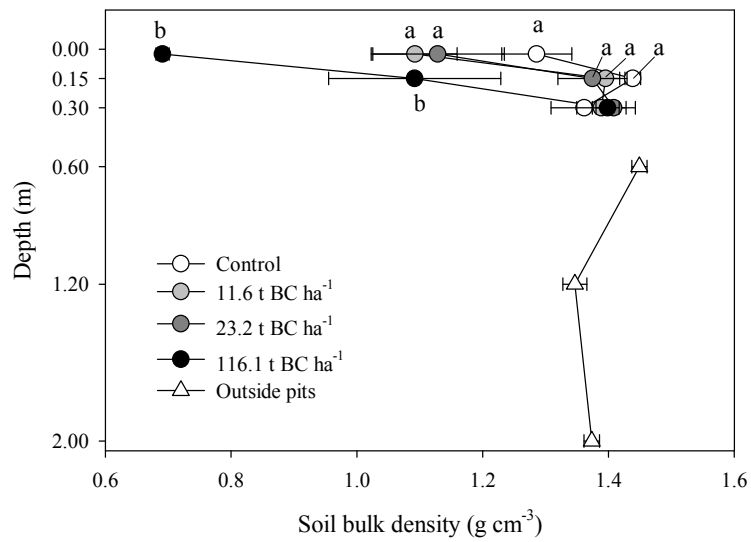


Figure 2.1. Bulk density and saturated hydraulic conductivity of a Colombian savanna Oxisol, 18 months after BC incorporation to 0.1 m (\pm SE, $n=6$ to 0.3 m depth, and $n=4$ below 0.3 m). Significant differences ($P<0.05$) within a single depth are represented by different letters.

Soil C content was greater in plots receiving greater amounts of BC (Figure 2.2), although only the highest BC application rate resulted in a significant difference from the control ($P<0.05$) at 0-0.15 m depth. For the 0.15-0.3 m depth increment, both the 23.2 and 116.1 t BC ha⁻¹ rates had significantly more total C than the control ($P<0.05$, $n=3$). Black C was found mostly in the surface layer which comprised the application depth, with the highest application rate producing a significantly greater BC stock than others ($P<0.05$, $n=3$). Small amounts of applied BC were also found in the 0.15-0.3 m depth increment, with the high application rate always resulting in significantly greater ($P<0.05$) BC stocks than the control (Fig 2.2). When controlling for bulk density (Figure 2.2 B-C), the non-BC stock was greater in the high BC application rate than the control at both the 0-0.15 and 0.15-0.3 m depths, after 2 years (Figure 2.2). The concentration of non-BC was greater with all BC application rates ($P<0.05$) at 0-0.15 m (6.48, 8.01, 7.81 and 10.25 mg soil C g soil⁻¹ for 0, 11.6, 23.2 and 116.1 t BC ha⁻¹ applied, respectively). Only the highest rate significantly increased non-BC content at 0.15-0.3 m, from 4.60 to 6.46 mg soil C g soil⁻¹ ($P<0.05$).

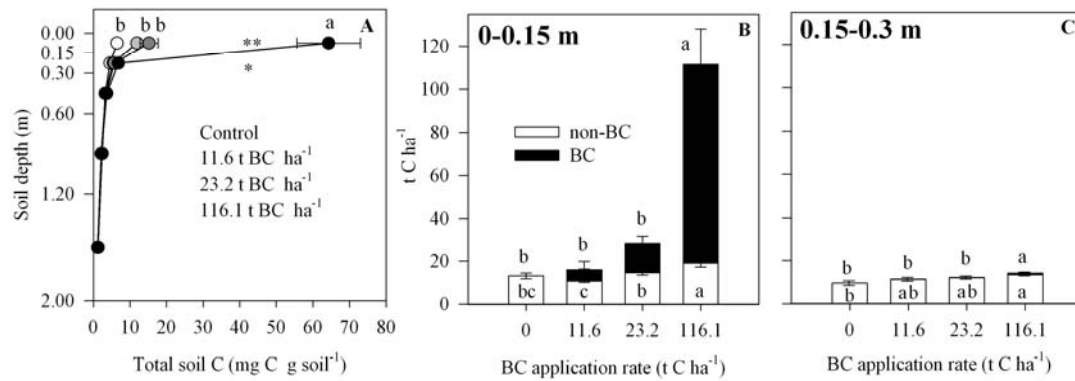


Figure 2.2. Total soil C concentration (A) and C stocks from soil and BC (B and C), two rainy seasons after BC application to a Colombian savanna Oxisol under natural vegetation (\pm SE, $n=3$). Significant differences within a single depth are represented by different lower-case letters (significant differences in total C at 0.3 m not shown), and significant main effects are indicated by ** ($P<0.01$) and * ($P<0.05$). Letters showing differences in BC content in panels B and C are placed above bars. Points in panel A are placed at the center of the depth increment they represent.

Plant biomass

Total above-ground plant biomass measured 5 months after biochar application increased by 189% when 23.2 t C ha⁻¹ BC was applied. Grasses, forbs and legumes on BC amended plots had 93, 292 and 1916% greater biomass, respectively, than on plots without BC application ($P<0.05$). The proportions of forbs and legumes were also greater when BC was applied (Table 2.2).

Table 2.2. Amount and proportion of above-ground biomass of spontaneous vegetation sampled on a control and BC-amended (23.2 t C ha⁻¹) Colombian savanna Oxisol.

	Dry matter (t ha ⁻¹)		Proportion of total (%)	
	- BC	+ BC	- BC	+ BC
Grasses	1.13	2.19	69	46
Forbs	0.47	1.86	29	39
Legumes	0.04	0.71	2	15
Total	1.64	4.75		

Biomass was not measured in year two, however it was observed in the second-year plot that vegetation composition was more similar to that which predominates in the region and which covered the plots before establishment. Grasses dominated and forbs were not as prominent, with or without BC application, than when sampling was carried out at 5 months.

Carbon leaching

The concentration of POC in water was greater at both 0.15 and 0.3 m ($P < 0.0001$ and $P < 0.005$, respectively) in sites with 23.2 t BC ha⁻¹ than those without BC additions. Results were similar for the total flux of POC leached ($P < 0.005$ at both depths) (Figure 2.3). Cumulatively, 317 and 267% more POC was leached at 0.15 and 0.3 m, respectively, when BC was applied. At 0.15 m, both the volume-weighted average POC concentration and total flux of POC leached were greater with BC addition, while at 0.3 m the volume-weighted concentration of POC was not significantly affected by BC additions. Greater water flux therefore explains the increase in total POC leached only at 0.3 m (Table 2.3).

Volume-weighted $\delta^{13}\text{C}$ values for POC were not significantly different between treatments at 0.15 m. However, at 0.3 m, BC additions resulted in significantly higher volume-weighted $\delta^{13}\text{C}$ values. Calculated amounts of BC-derived POC leached were low (Table 2.3), corresponding to <1% of applied BC after two years. Black C application led to greater amounts of non-BC-derived POC leached ($P<0.05$), corresponding to increases of 308 and 254% at 0.15 and 0.3 m, respectively over control plots.

Similar trends were observed for DOC, with cumulatively 158 and 199% more DOC and 131% and 122% more non-BC-derived DOC leached 0.15 and 0.3 m, respectively, when BC was applied as compared to non-amended plots. However, both volume-weighted concentrations and total amounts of DOC (in both treatments) were generally substantially greater than for POC. Also, this trend was much stronger when BC had not been applied. Thus, the ratio of total DOC-to-total POC was 1.43 and 2.31 at 0.15 m with and without BC addition, respectively. At 0.3 m, these ratios were 1.93 and 2.37, respectively. The amount of C in DOC originating from BC was 680% greater at 0.15 m and 1342% greater at 0.3 m than that in POC, while BC-induced increases in leached non-BC were similar in DOC and POC at both depths (Table 2.3).

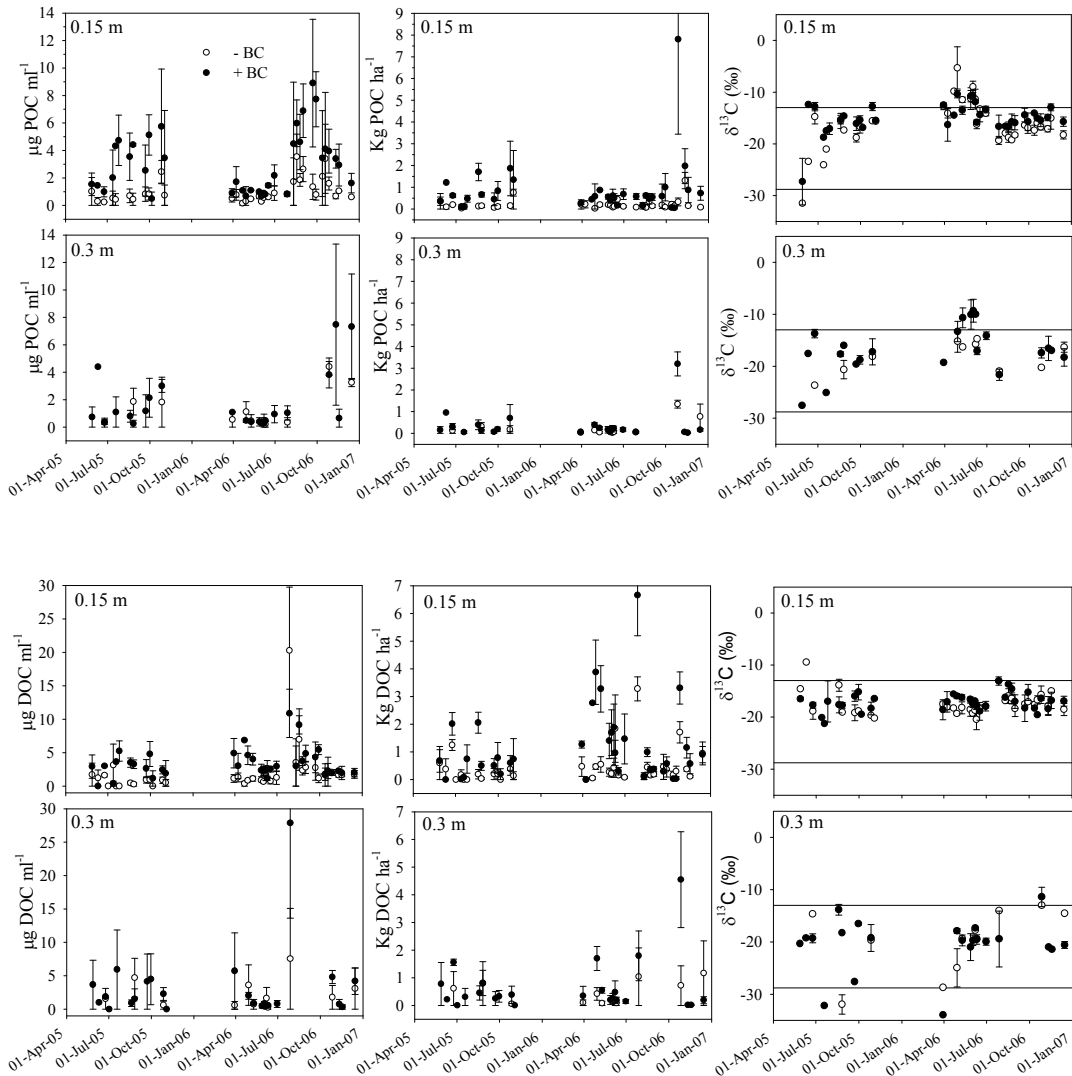


Figure 2.3. Concentration (left), total amount (center) and $\delta^{13}\text{C}$ values (right) of POC (top) and DOC (bottom) leached over two years in free-draining lysimeters placed at 0.15 and 0.3 m depth, either with (+BC, 23.2 t C ha^{-1}) or without BC addition (-BC) to a Colombian savanna Oxisol under natural vegetation ($\pm \text{SE}$, $n=1, 2$ or 3 depending on whether samples were collected for all replicates in the field, and whether samples were lost during transportation or storage). In the $\delta^{13}\text{C}$ panels, the upper reference line corresponds to the $\delta^{13}\text{C}$ value of the soil and the lower line to the $\delta^{13}\text{C}$ value of BC.

Soil respiration

The amount of C respired followed similar trends as leached C but was consistently greater ($P < 0.05$) when BC was added, during both the first and second year after BC application (Fig 2.4). Yet overall respiration rates were greater in the first than the second year. Cumulatively, 41 and 18% more C was respired when BC was applied, as compared to the non-amended control, in the first and second year, respectively (Table 2.4).

A small percentage of respired C originated from applied BC ($P < 0.05$) (Table 2.4). For the two dates where replicate samples of CO_2 were analyzed, no significant difference ($P > 0.05$) in $\delta^{13}\text{C}$ was found between the control and BC-amended soil. Black C addition resulted in a 25% increase in non-BC respired ($P < 0.05$). This increase was greater in the first year after application (40%) than the second (6%).

Overall, the most important fate of C originating from BC measured here was respiration (Table 2.5). The proportion which was mobilized by water was two (DOC) to three (POC) orders of magnitude lower. Increases in non-BC losses were also greatest for respiration, and again between two and three orders of magnitude greater than for DOC and POC, respectively.

Discussion

Vertical movement of total C and BC in soil

After two years, only a small proportion of soil-applied BC had moved below the 0.1 m application depth into the 0.15-0.3 m sampling depth. Leifeld *et al.* (2007) observed BC migration rates of 630 to 1160 mm yr^{-1} , where 21-69% of BC migrated

Table 2.3. Total amounts and volume-weighted average concentrations of C leached over two years as POC and DOC, at 0.15 and 0.3 m depths on a Colombian savanna Oxisol. Different letters represent significant differences ($P < 0.05$) between control (-BC) and BC-amended (+BC) soil.

Depth m	Volume-weighted averages			Total amounts					
		Total C conc. $\mu\text{g C mL}^{-1}$	$\delta^{13}\text{C}$ ‰	C leached kg C ha^{-1}	Proportion from soil %	Proportion from BC %	Prop. of applied BC %	BC leaching rate* $\text{kg C ha}^{-1} \text{ yr}^{-1}$	BC-induced increase in non-BC leaching [†] $\text{kg C ha}^{-1} \text{ yr}^{-1}$
0.15	POC	- BC 0.91b	-15.87a	7.3b	100a	0b	0	0b	0b
		+ BC 2.50a	-13.91a	30.2a	98.1b	1.9a	0.003	0.32a	12.2a
	DOC	- BC 2.21b	-17.57a	16.8b	100a	0b	0	0b	0b
		+ BC 5.73a	-16.69a	43.2a	89.4b	10.6a	0.020	2.49a	11.9a
0.3	POC	- BC 2.04a	-16.86a	2.2b	100a	0b	0	0b	0b
		+ BC 1.39a	-14.95b	8.0a	96.6b	3.4a	0.001	0.15a	3.0a
	DOC	- BC 5.02a	-18.39a	5.2b	100a	0b	0	0b	0b
		+ BC 2.68b	-17.91a	15.5a	74.3b	25.7a	0.017	2.16a	3.4a

[†]Sampling was carried out over 2 rainy seasons and 1 dry season. To generate this estimate, a second dry season was assumed to last the same number of days as the season sampled.

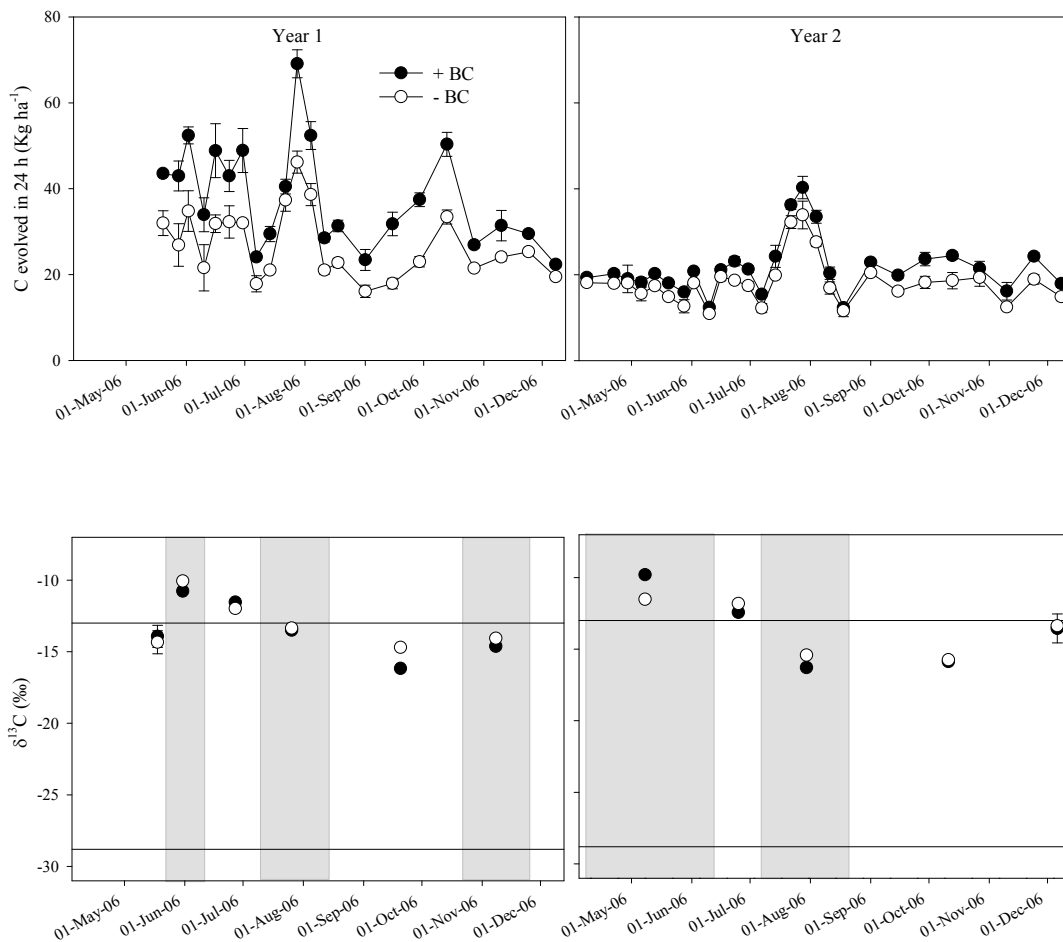


Figure 2.4. Amount of C respired and $\delta^{13}\text{C}$ from a Colombian savanna Oxisol, measured using soda lime traps (\pm SE, $n=6$ for amounts of C). Years 1 and 2 were sampled from different plots. For $\delta^{13}\text{C}$, all samples within chosen intervals (shaded and white areas) were composited, and replicates were analyzed separately only on the first date of year 1 and the last date of year 2 (\pm SE, $n=3$). The upper reference line corresponds to the $\delta^{13}\text{C}$ value of the soil and the lower line to the value for BC.

Table 2.4. Total C respired over two years from a Colombian savanna Oxisol, measured using soda lime traps during the rainy season only. Years 1 and 2 were sampled from different plots. Different letters represent significant differences ($P < 0.05$) between control (-BC) and BC-amended (+BC). Data was extrapolated from 24 h soda lime assays, with assay dates taken as center points of time intervals between assays.

	Total amounts						Volume-weighted average
	Total respired C	Respired BC	Prop. of C as BC	Prop. of applied BC respired	BC respiration rate [#]	BC-induced increase in non-BC respiration [#]	
	t ha ⁻¹	kg ha ⁻¹	%	%	kg ha ⁻¹ yr ⁻¹	t ha ⁻¹ yr ⁻¹	‰
- BC	9.97b	0b	0b	0b	0b	0b	-13.76a
+ BC	13.03a	513.8a	3.94a	2.21a	377.0a	1.82a	-14.08a

[#]to generate these estimates, the respired amounts for the day with lowest measured respiration in each rainy season were used to estimate respiration for the duration of the dry season. Respired BC was estimated using the average proportion of BC respired for each year. The dry season was taken to last the same number of days in 2006 as in 2005 and was defined as ending on the first day when free-draining water was collected in March.

Table 2.5. Fate of soil-applied BC, two years after application to soil (including dry seasons). Losses of BC by surface runoff were not measured and are excluded.

Flux type	Total flux over 2 years		Proportion of total flux		Rate kg ha ⁻¹ yr ⁻¹	Proportion of applied BC		BC-induced increase in non-BC flux kg ha ⁻¹ yr ⁻¹	Net effect on C stocks* t C ha ⁻¹
	kg C ha ⁻¹	%	%	%					
Respired as CO ₂	751.9	98.8	377.0	3.241	1818.0	+ 22.80			
Leached below 0.15 m	as POC 4.580	0.08 0.60	0.32 2.49	0.003 0.020	12.18 11.90				
	Total	5.166	2.81	0.023	24.08	+24.55			
Leached below 0.3 m	as POC 3.978	0.04 0.32	0.15 2.16	0.001 0.017	3.03 3.44				
	Total	4.254	2.31	0.018	6.47	+2.56			
Total	761.32	100.00		3.282					
Net for respiration and leaching to 0.3 m								+22.79	

* For each line, the BC-induced "loss" of non-BC was added to the amount of BC lost, and this was subtracted from the C added as BC (23.2 t ha⁻¹) and additional non-BC as found in soil samples (Fig. 2). For respiration the depth increment used was 0-0.3 m.

below the incorporation depth of 0.3 m, down to a maximum of 1.40 m over a maximum of 95 years in peat soils with very low bulk density. In our sandy Oxisol, BC traveled from 0.1 to 0.3 m with water as both POC and DOC at the first collection date after BC application and the onset of the rainy season. For the 23.2 t BC ha⁻¹ application rate, 4.25 kg BC ha⁻¹ (0.02% of applied amount) over two years moved below 0.3 m depth as POC and DOC, while 103.4 kg BC ha⁻¹ (0.45% of applied amount) was found in soil. Black C was thus retained by the mineral subsoil.

We suspect that bioturbation could have been additionally involved in BC movement below 0.15 m. Surface-applied lime was incorporated into an acidic Australian soil by earthworms to a depth of 0.15 m (Chan *et al.* 2004), and earthworm burrows were observed in our plots in cores from the 0.6-1.2 m depth increment, where the inside of the burrow was much darker in color than the surrounding soil. Termites were also observed to be active on experimental plots.

At 0-0.15 m, BC stocks after two years were 53, 41 and 20% less than applied amounts of 11.6, 23.2 and 116.1 t BC ha⁻¹, respectively, and leaching below 0.15 m accounts for a loss of 0.02% of applied BC at the 23.2 t ha⁻¹ rate. Given that respiration accounted for a 2.2% loss, and that much smaller proportions were found in the soil between 0.15 and 0.3 m or leached below 0.3 m, a large proportion of applied BC may have been lost by surface runoff. This represents the largest BC flux in this study. On steep slopes in Laos, surface-deposited BC as opposed to other types of soil organic matter was preferentially eroded due to its lack of association with minerals shortly after deposition, its light nature and the fact that it did not significantly degrade during transport (Rumpel *et al.* 2006a). Guggenberger *et al.* (2008) also found a larger proportion of BC from vegetation fire exported by stream water than non-BC in a tundra catchment. A total export of 1 kg BC ha⁻¹ yr⁻¹ was observed, where 0.22 to 34.4 t BC ha⁻¹ was stored in catchment soil and uniformly

distributed to a depth of 1 m. In contrast to runoff, transfer of BC between plots likely did not occur in our study, since the $\delta^{13}\text{C}$ of surface soil in control plots did not change according to the direction of runoff on the field.

Improved saturated hydraulic conductivity and water infiltration at the surface resulted in water flux at both depths being greater with BC. Consequently, at 0.15 m the increase in total C leached with BC addition was proportionally greater than the increase in the volume-weighted concentration of POC, and these were similar for DOC (Table 2.3). At 0.3 m, volume-weighted C concentrations were lower when BC was applied, but total C leached was greater with BC addition for both POC and DOC. This implies that greater water flux was solely responsible for the increase in total C leached at 0.3 m. The increased water flux may be due to greater plant biomass (Table 2.2) and associated root systems and macroporosity with BC application, as well as direct BC effects on soil saturated hydraulic conductivity. Dissolved organic C concentrations found at 0.15 m (mean = 2.6 mg L^{-1}) in our study are in the range of those found at 0.1 m below an Oxisol in a Brazilian Amazon forest (mean = approx. 7 mg L^{-1}) (Johnson *et al.* 2006).

The proportion of BC in DOC was much greater than BC in POC (Table 2.3). This suggests that BC preferentially travels as particles $< 0.7 \mu\text{m}$, or as by-products of BC decomposition and/or weathering. Black C sorbs a wide range of organic compounds found in soils such as phenols (Gundale & DeLuca 2007), pesticides (Yu *et al.* 2006), glucose and DOC from birch leaf extract (Pietikäinen *et al.* 2000). Indeed, here the ratios of total DOC to total POC leached indicate that proportionally less total DOC was leached when BC was applied.

Black C effect on C cycling

The increase in respired C was not related to BC, but rather to non-BC respiration (Table 2.4). Still, soil respiration accounted for an overwhelmingly greater proportion of BC flux than movement with water (Table 2.5). Black C may preferentially harbor microorganisms in its highly porous structure (Pietikäinen *et al.* 2000; Saito 1990; Yamato *et al.* 2006), and these are active as demonstrated by greater basal respiration with BC than with pumice (Pietikäinen *et al.* 2000) and by greater substrate-induced respiration by BC addition to forest humus (Wardle *et al.* 2008), in laboratory incubation studies. However, Steiner *et al.* (2004) found no difference in basal or substrate-induced respiration in the laboratory, when BC was added to either a control or synthetically fertilized Oxisol. Our results show that despite greater soil C:N ratios with BC additions (26.1 vs. 14.8 with and without BC, respectively), soil respiration increased. Possible reasons are (i) a greater amount of biomass production and hence mineralization of plant litter; (ii) possibly a larger microbial population in soils that received BC; or (iii) greater root respiration. The latter was captured here despite rings being kept free of vegetation, since they were only inserted to 0.1 m. This would result in an underestimation of autotrophic respiration compared to areas outside chambers. The increase in non-BC respired with BC application was greater in the first year than the second year, and this may indicate that BC's stimulatory effect on soil and/or plant respiration tapers off during the first years after application.

Black C application resulted in greater amounts of non-BC in soil. This follows from greater plant biomass production. A literature review by Lehmann and Rondon (2006) found that plant biomass increased by up to 230% with BC application in 24 experiments using 10 different crops, when compared to optimally managed controls not receiving BC. Greater plant productivity and consequently greater root and leaf turnover and microbial activity likely led to greater POC and DOC leaching

with BC application, and explain the observed increase in non-BC cycling and non-BC soil stocks. Induced increases were greatest, in absolute terms, for respired C and this is in agreement with the explanation that greater non-BC fluxes with BC occurred through increased plant biomass, with associated increases in heterotrophic and autotrophic respiration. Trujillo *et al.* (2006) estimated below ground net primary productivity to 0.5 m of mature savanna vegetation at $12.5 \text{ t ha}^{-1} \text{ yr}^{-1}$ ($5.0 \text{ t C ha}^{-1} \text{ yr}^{-1}$ with 41% C in roots) on the same farm where this work was carried out, using the compartment-flow model. The calculated additional C input through root turnover after BC application would represent 29 t C ha^{-1} over two years, assuming that our measured increases in above-ground biomass (Table 2.2) translate into similar increases below ground. This amount is greater than the sum of the additional non-BC respired (1.82 t C ha^{-1}), leached below 0.3 m ($0.007 \text{ t C ha}^{-1}$), and of additional non-BC in soil accrued to 0.3 m (3.98 t C ha^{-1}) over two years. Thus, greater biomass production alone can explain the observed increases in non-BC fluxes, and BC-induced increased fluxes of native soil organic C is unlikely the cause.

Wardle *et al.* (2008) observed that the addition of BC to litterbags containing boreal forest humus resulted in greater humus-C loss than expected from the loss of the components taken separately. Hamer *et al.* (2004) also found that BC enhanced the degradation of glucose in laboratory incubation studies. Our findings show exactly the opposite, where applying BC to soil leads to greater non-BC content. The effect of BC on plant biomass and available substrates is not accounted for in data by Wardle *et al.* (2008), since the small litter bags exclude BC-stimulated plant C input. Physical export of C might also have been attributed to C mineralization, since mineral surfaces are expected to retain leached C and this would not be the case in the humus layer (Lehmann & Sohi 2008). In addition, the experiment by Hamer *et al.* (2004) did not include plants. Our results represent the net effect of BC on the soil and plants.

Black C stability and implications for biochar soil management and C sequestration

The considerable proportion of BC which may have been lost by surface erosion with water could accumulate in depressions, travel mostly as sediment in waterways, potentially to the deep ocean where BC remains stable for thousands of years (Masiello & Druffel 1998).

Dissolved organic C and POC leached are likely to be adsorbed in subsoils, and thus become even more stable than topsoil C. Dissolved organic C concentrations in temperate and arctic forests decreased sharply as soil solution moved through mineral soil (Cronan & Aiken 1985; Guggenberger & Zech 1994; Kawahigashi *et al.* 2006; Qualls & Haines 1992). Evidence suggests that organic molecules such as plant-derived carbohydrates and lignins (Guggenberger & Zech 1994) are mainly retained abiotically by the soil matrix (Qualls & Haines 1992), and subsequently degraded *in situ* by microorganisms. Sorption of organic C to soil minerals is enhanced by the presence of Al and Fe oxides (Kahle *et al.* 2004; Kaiser *et al.* 1996) which are abundant in Oxisols. Indeed, organic C below 0.6 m in a temperate grassland soil was > 2,000 yr old, and had a residence time 8 times greater than C found at the surface (Fontaine *et al.* 2007). The small amounts of leached BC observed here are also expected to sorb to the mineral matrix (McKnight *et al.* 1992).

Over two years, we calculated that < 3% of applied BC had been respired, of which 75% occurred during the first year. As time passes and labile BC fractions are mineralized, respiration of BC is likely to decrease even further. Using a first-order decay model with two pools, the mean residence time (MRT) of the BC obtained from isotope recovery calculated to 600 years ($r^2=0.928$; $n=12$). When normalized to the same mean annual temperature of 10°C (from 26°C using a Q_{10} of 3.4 from Cheng *et al.* 2008) the resulting MRT of 3,264 years is similar to laboratory incubation studies of similar duration using soils from charcoal storage sites (1,335 years, Cheng *et al.*

2008), Amazonian Dark Earths (4,035 years, Liang *et al.* 2008), or fresh ryegrass BC (2,000 years, Kuzyakov *et al.* 2009). Modeling to long-term equilibrium yielded slightly longer MRT of 1,300 and 2,600 years for BC from savanna fires in Australia at a similar mean annual temperature of 27°C (Lehmann *et al.* 2008).

When applying BC to a tropical Oxisol, we found the greatest C loss to occur as respired non-BC. However, this higher loss is most likely generated by increased plant productivity, which was demonstrated here for 5 month old plots and has been widely documented for BC application to soil. Here, the increase in respired non-BC (1.8 t C ha⁻¹ yr⁻¹) was compensated by the total increase in native plant biomass (3.11 t ha⁻¹ aboveground biomass or approximately 1.56 t C ha⁻¹, 5 months after BC application) (Table 2.2). This increase, combined with gradual decreases in respiration of BC with time will translate into a net C sink compared to soil without BC additions.

Conclusions

Less than 3% of the applied BC was lost by CO₂ evolution, with a calculated MRT of 15,000 years. Since 75% of the BC losses by mineralization occurred over the course of the first year, we expect that such losses will decrease even further with time as the labile BC fraction is mineralized. These low respiration losses suggest high stability of BC in soils, which confirms the role that BC plays as a C sink in the global C cycle. It also affirms the validity of exploring purposeful application of BC to soils as a sink enhancement of stable SOC. We did not detect an enhanced loss of existing SOC due to addition of BC, but rather greater amounts of non-BC in soil, leachate and respired C due to greater plant productivity.

The suspected physical export of BC was significantly greater than mineralization, with most of the BC likely being moved by surface erosion. This potentially large translocation of BC in the landscape must be recognized and losses of

BC from soil can not be interpreted solely as mineralization. We cannot provide information about whether the leached or eroded BC is mineralized to a greater or lesser extent during transport or after accumulation. Since erosion fluxes were estimated to be a significant portion of the total loss, the fate and the effects of BC moving laterally in the landscape warrant further investigation.

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CHAPTER 3

MAIZE YIELD AND NUTRITION DURING FOUR YEARS AFTER BIOCHAR APPLICATION TO A COLOMBIAN SAVANNA SOIL

Abstract

The application of biochar (biomass-derived black carbon) to soil has previously been shown to improve crop yields, but the reasons for this are often not clearly demonstrated. Here, we studied the effect of the application of 0, 8 and 20 t ha⁻¹ of biochar to a Colombian savanna Oxisol for 4 years (2003 – 2006) after a single application, under a maize-soybean rotation. Soil sampling to 0.3 m was carried out after maize harvest in all years but 2005, maize tissue samples were collected and crop biomass was measured at harvest. Maize grain yield did not significantly increase in the first year after biochar application, but in subsequent years linear yield increases were observed, and improvements in the 20 t ha⁻¹ plots over the unamended control were 28, 30 and 140% for 2004, 2005 and 2006, respectively. The availability of nutrients such as Ca and Mg was greater with biochar application, and crop tissue analyses show that Ca was limiting in this system. Soil pH also increased with biochar application, and exchangeable acidity showed a decreasing trend when biochar was applied. We attribute the greater crop yield and nutrient uptake primarily to the 77-320% greater amounts of Ca and Mg available in the soil where biochar was applied.

Introduction

Soil fertility in high-rainfall, low altitude regions of the tropics is notoriously low due to rapid organic matter mineralization (Jenkinson and Anabaya, 1977), and the presence of highly weathered secondary minerals (van Wambeke, 1992). However,

fertility can be successfully improved using both inorganic and organic fertilizers. The major drawbacks of inorganic fertilizers are their low accessibility to resource-poor farmers (Garrity, 2004) and their low efficiency in highly weathered soils (Baligar and Bennett, 1986). While organic fertilizers are able to improve nutrient use efficiency, they mineralize rapidly in soil and benefits through increases in organic matter last only for a few growing seasons (Bol et al., 2000; Diels et al., 2004; Tiessen et al., 1994). In contrast, biomass-derived black carbon (C), or biochar, is much more stable. While biochar must eventually mineralize in soil (Goldberg, 1985; Schmidt and Noack, 2000), a fraction remains in a very stable form with a ^{14}C age greater than that of the oldest SOM fractions (Pessenda et al., 2001).

Biochar has convincingly and repeatedly increased soil nutrient availability in highly weathered tropical soils leading to crop yield improvements (Glaser et al., 2002; Lehmann et al., 2002, 2003; Rondon et al., 2007; Steiner et al., 2008). Nutrients applied with certain biochar materials can be responsible for short-term increases in crop growth (Lehmann et al., 2003). However, it has been hypothesized that the long-term effect of biochar on nutrient availability is due to an increase in surface oxidation and cation exchange capacity (CEC) (Liang et al., 2006), which intensifies over time (Cheng et al., 2006, 2008) and can lead to greater nutrient retention in “aged” as opposed to “fresh” biochar. This mechanism has not been demonstrated under field settings over multiple years.

Therefore, our objective for this study was to investigate the long-term effects of biochar on soil fertility and crop yield. Our hypothesis was that biochar-amended soil provides more sites for the retention of base cations in acid tropical soils, thus retaining more of these in available form and resulting in greater crop yields and nutrient uptake.

Materials and methods

Field setup

The field experiment was located at Matazul farm in the Llanos Orientales, non-flooded savannas of Colombia (N 04° 10' 15.2", W 072 ° 36' 12.9"). The soil is an isohyperthermic kaolinitic Typic Haplustox clay (Soil Survey Staff 1994), which developed from alluvial sediments originating in the Andes (Rippstein et al. 2001). Measured at a research station approximately 200 km northeast of the research plot, annual rainfall in the region is 2200mm with a marked dry season between January and March, and average annual temperature is 26°C (Rippstein et al. 2001). Average annual rainfall during 2005 and 2006 at the study site was 2,354 and 2,226 mm, respectively. It is possible to grow two cycles of annual crops during the rainy season. Initial vegetation consisted of native savanna grasses, and to our knowledge the experimental plot had never been tilled, cropped or amended. In December 2002, the experimental area was chisel plowed and dolomite was applied at 2.2 t ha⁻¹, and incorporated to 0.3 m using two passes of a chisel plough. Nine days later, biochar (Table 3.1) was applied in a randomized complete block design with 3 replicates. Biochar incorporation was accomplished with one pass of a disc harrow to a depth of 50 mm. Application rates were 0, 8 and 20 t ha⁻¹, for a total of 9 experimental plots measuring 4 by 5 meters. Plots were separated by 1 m within blocks between replicates and 2 m between blocks. Lime and biochar were applied on only one occasion in 2002. Wood biochar commercially made for cooking was ground using a tractor and a roller, to pass through a 5 mm mesh. Beginning in May 2003 and until December 2006, plots were cropped to a maize (*Zea mays* L.) - soybean (*Glycine max* (L.) Merr.) rotation. The initial design also included plots seeded to pasture grasses and plots left to savanna vegetation, but only the crop rotation plots were used for the

work reported here. No tillage was carried out after biochar incorporation, simulating no till soil management.

Table 3.1. Properties of wood biochar made commercially for cooking and applied to a Colombian savanna Oxisol in 2002. Values shown are averages of two analytical replicates. Methods are described below.

		Biochar
pH	(H ₂ O)	9.20
pH	(KCl)	7.17
Total C	%	72.9
Total N	%	0.76
C/N		120
H/C		0.018
O/C		0.26
Ash	%	4.6
Ca*	μg g ⁻¹	330.7
Mg*	μg g ⁻¹	48.9
P*	μg g ⁻¹	29.8
K*	μg g ⁻¹	463.8
Sr*	μg g ⁻¹	2.6
Potential CEC	mmol _c kg ⁻¹	111.9

*Available nutrients extracted with Mehlich III (Mehlich 1984) and quantified by inductively coupled atomic emission spectroscopy (ICP-AES).

Maize seeds were treated with fungicides (Carboxin and Thiram), and soybean seeds with both fungicides and *Rhizobium* inoculum. Both maize and soybean were seeded using hand tools with fertilizer placed in a parallel furrow approximately 0.1 m from the seed row. After seeding, side-dressed fertilizer was applied to the soil surface, on crop rows. Maize was seeded on 22 May 2003 and 30 April 2004 (variety information unavailable), and hybrid Pioneer® 3041 was seeded on 17 May 2005 and 10 May 2006, all at 62,500 plants ha⁻¹. Short cycle, indeterminate soybean was seeded on 22 September 2004 (variety information unavailable), and varieties Corpoica

Libertad 4 and Corpoica Superior 6 were seeded on 11 October 2005 and 15 September 2006, respectively, all at 400,000 plants ha⁻¹. Dates given are for the last, successful seeding. Re-seeding (up to twice) was necessary due to bird, insect and reptile damage. Initial fertilization took place at first seeding and was not repeated when re-seeding was necessary (Table 3.2). Weeds, insects and fungal diseases were controlled as necessary using herbicides and pesticides according to local practices. At soybean seeding in 2006, a powdered insecticide was used at a high dose in seed furrows on some areas of plots, and is suspected to have resulted in toxicity in the crop.

Soil sampling and analysis

After harvesting maize in 2003, 2004 and 2006, soil was sampled in the control and 20 t ha⁻¹ plots (and 8 t ha⁻¹ in 2006 only) in depth increments of 0-0.05, 0.05-0.1, 0.1-0.2 and 0.2-0.3 m. A small pit was dug inside each plot and samples taken along one side of the pit. On 25-26 April 2006, additional samples were taken to 2.0 m using a hand-held core auger. For depth increments 0-0.15 and 0.15-0.3 m, five profiles were sampled on old maize rows and five half-way between rows, in each plot. For increment 0.3-0.6 m, 3 profiles were sampled on old maize rows and 2 in between. For increments 0.6-1.2 and 1.2-2.0 m, two profiles were sampled, one at each location.

Table 3.2. Fertilizer application rates (kg ha⁻¹). Nitrogen was applied as urea unless otherwise indicated, K as KCl and P as acidified rock phosphate.

Year	Crop	Application date	N	P	K	Ca	Mg	S	B	Cu	Zn
2002		10 Dec	-	-	-	509	199	-	-	-	-
2003	Maize	TOTAL	165	43	86	2.9	16.2	10	0.4	-	4.5
2004	Maize	TOTAL	170	33	84	2.1	15.6	10	0.3	-	4.0
	Soybean	TOTAL	87	39	63	-	19.2	13	0.9	-	4.7
2005	Maize	4 May	30	30	25	1.8	3.0	1.6	0.3	-	1.6
		9 Jun	46	-	62	-	-	-	-	-	-
		21 Jun	80	-	25	-	-	-	-	-	-
		TOTAL	156	30	112	1.8	3.0	1.6	0.3	-	1.6
	Soybean	12 Sep ¹	16	10	110	17.0	4.0	5.0	0.3	0.3	1.7
2006	Maize	27 Apr	31	30	36	-	12.5	15.6	0.3	0.3	1.6
		27 May	58	-	62	-	-	-	-	-	-
		9 Jun	70	-	38	-	-	-	-	-	-
		TOTAL	159	30	138	-	12.5	15.6	0.3	0.3	1.6
	Soybean	7 Sept ²	16	10	104	-	7.2	12.0	0.2	0.3	1.7

¹Less than 2 kg ha⁻¹ N (82% as KNO₃ and 2 % as urea), 0.05 kg ha⁻¹ P and 2 kg ha⁻¹ K total applied as foliar fertilizer on 24 and 28 Oct, and 8 Nov. On these dates trace amounts (<3 g ha⁻¹) of Ca, Mg, S, B, Cu and Zn were also applied

²Less than 1 kg ha⁻¹ N (82% as KNO₃ and 2 % as urea) as foliar fertilizer, plus foliar application of gibberellin on 14 Oct

Soil from each depth increment and profile was collected in buckets and thoroughly mixed by hand before a subsample was taken for analysis. During sampling soil subsamples were kept on ice in an insulated box.

Immediately after sampling to 2.0 m, moist subsamples were weighed and set aside for moisture determination after drying at 105°C for 24 h and weighing again. Thirty grams of moist soil were weighed into plastic bottles, and 150 ml of 1 N KCl were added for extraction of inorganic N. Jars were shaken by hand for 5 min, and transported for 1 h above the rear wheels of a pickup truck on a bumpy dirt road. Jars were then kept at 4°C for several days until soil settled, and 20 ml supernatant was transferred to small plastic vials and kept frozen until analysis. Ammonium and nitrate concentrations of soil extracts were determined colorimetrically on a segmented flow analyzer (Autoanalyzer 3 by Bran+Luebbe, Rochester NY, USA). Data were corrected for N contributed by the extractant and transformed to represent concentrations on a dry soil basis. Leftover soil was air-dried, crushed and passed through an aluminum sieve with 2 mm circular openings. Available nutrients were extracted from 2.5 g of air-dried soil using 25 ml of Mehlich III solution (Mehlich 1984) and horizontal shaking for 5 min. Upon filtering, extracts were analyzed by atomic emission spectrometry (IRIS Intrepid by Thermo Elemental, Franklin MA, USA). Soil pH was determined in a 1:2.5 soil:water or 1N KCl mixture, agitated 3 times over the course of 1 h, and measured using a gel electrode (Symphony by VWR, West Chester PA, USA). Exchangeable acidity was determined by extracting 5 g of soil with 25 ml 1 N KCl, shaking lightly, and allowing to rest for 30 min. Samples were then filtered and extraction bottles washed 3 times with 25 ml of 1 N KCl. Phenolphthalein was added to the extracts, and these were titrated using 0.01 N NaOH. Potential cation exchange capacity (CEC) was determined by extraction with 1 N ammonium acetate at pH 7, flushing three times with isopropyl alcohol followed by extraction with 2 N KCl. The

ammonium content of the KCl extract was determined colorimetrically using Nessler's reagent (Naude 1927) on a Technicon® flow analyzer. Effective CEC was calculated by summing the amount of charge per unit soil from all cations extracted by Mehlich III except Al, and exchangeable acidity. Wang et al. (2004) found a good correlation between cations extracted using the Mehlich III solution and ammonium acetate at pH 7. Base saturation (BS) was obtained by dividing the total amount of charge per unit soil from Ca, K and Mg by effective CEC. Total C and N contents were determined by combustion on an isotope ratio mass spectrometer (Europa Hydra 20/20 by Europa Scientific, Crewe, UK).

The point of zero net charge (PZNC) of the soil in 2006 was determined on samples of the 0 and 20 t ha⁻¹ biochar application rates, with all replicates combined. The method using K and Cl ions described by Cheng et al. (2008) was used, except quadratic curves were used only to describe the soils' positive charge. Linear and hyperbolic curves were used for negative charge in the control and biochar amended soils, respectively.

Biochar was analyzed similarly to soil, except double extractions were used for potential CEC determination and the ratio of biochar:water or 1 N KCl for pH measurement was 1:10. The H content of biochar was measured by combustion on an oxygen analyzer (PDZ Europa 20-20, Heckatech HT by Europa Scientific, Crewe, UK). Oxygen content was calculated by difference using the ash, C and H contents.

Crop sampling and measurements

Maize leaf tissue samples were taken in 2006 from the flag leaf of 10 marked plants per plot at tasseling. Squares of about 50 by 50 mm were cut from one edge towards the midrib, halfway down the leaf. These were kept on ice in the field and frozen until oven drying at 70°C to constant weight (72 h). At harvest, maize ears were

harvested from 2 linear meters on different rows, avoiding plot edges. Husks were left on the plants. Ears were shelled by hand, and grain and cobs were dried first in the sun and then in an oven at 60°C for 72h. Grain moisture after drying was determined using a hand-held moisture tester (by John Deere, Moline IL, USA), and yield was reported on a 15% moisture content basis. In each plot, vegetative biomass with ears removed was harvested at ground level from 1 linear meter, wet weight recorded and subsamples consisting of 2 whole maize plants were weighed and taken to the lab. After oven drying at 70 °C for 48 h, dry weights were determined. Vegetative biomass from harvest, dried leaf material from tasseling and subsamples of grain were ground using a laboratory mill (Thomas Wiley, Philadelphia PA, USA) to pass a 1-mm sieve, packaged in sealed plastic bags and stored until analysis by acid block digestion with nitric acid and hydrogen peroxide, followed by determination of total nutrient content by atomic emission spectrometry (IRIS Intrepid by Thermo Elemental, Franklin MA, USA). Samples of vegetative maize tissue from 2006 were not available for analysis.

In 2006, soybean leaf samples were collected at full bloom from the newest mature, trifoliolate leaf at the top of plants marked for measuring height. Due to problems with pest damage and insecticide toxicity, soybean growth was heterogeneous. At harvest, all biomass was harvested on 2-4 linear meters which had the best growth, depending on availability. Biomass was manually separated into seeds and vegetative plant parts, dried, weighed, ground and analyzed as above. Soybean seed, due to its high oil content, was analyzed for total nutrients by dry ashing at 450°C for seven hours, adding hydrogen peroxide and ashing again at 450°C for 2.5 hours. The ash was dissolved in a hydrochloric acid matrix and analyzed by atomic emission spectrometry (CIROS by SPECTRO Analytical Instruments, Kleve, Germany).

Statistical analyses

All data was analyzed using PROC GLM of the SAS software package (SAS Institute, Inc 2003). Treatment means were separated using the Student T test. Upon inspecting residual plots, it was deemed necessary to log transform data for soil available Ca, K, Mg, Mn, Mo, P, S, and Sr in order to comply with the model's assumption of equal variance.

Results

Crop yield and nutrient uptake

In the first year after biochar application, no significant effect on crop yield was observed ($p>0.05$). In subsequent years, however, maize yield increased with increasing biochar application rate, and the positive effect of biochar was most prominent in 2006 when absolute yields were the lowest (Figure 3.1). Grain yield from soybean was only available in 2006 due to deer grazing in the field in previous years, and no significant differences between treatments were observed ($p>0.05$, data not shown).

The harvest index (HI) of maize (grain mass divided by total mass) was significantly lower ($p>0.05$, data not shown) in 2006 than in other years, in both the control and 20 t ha⁻¹ biochar amended plots.

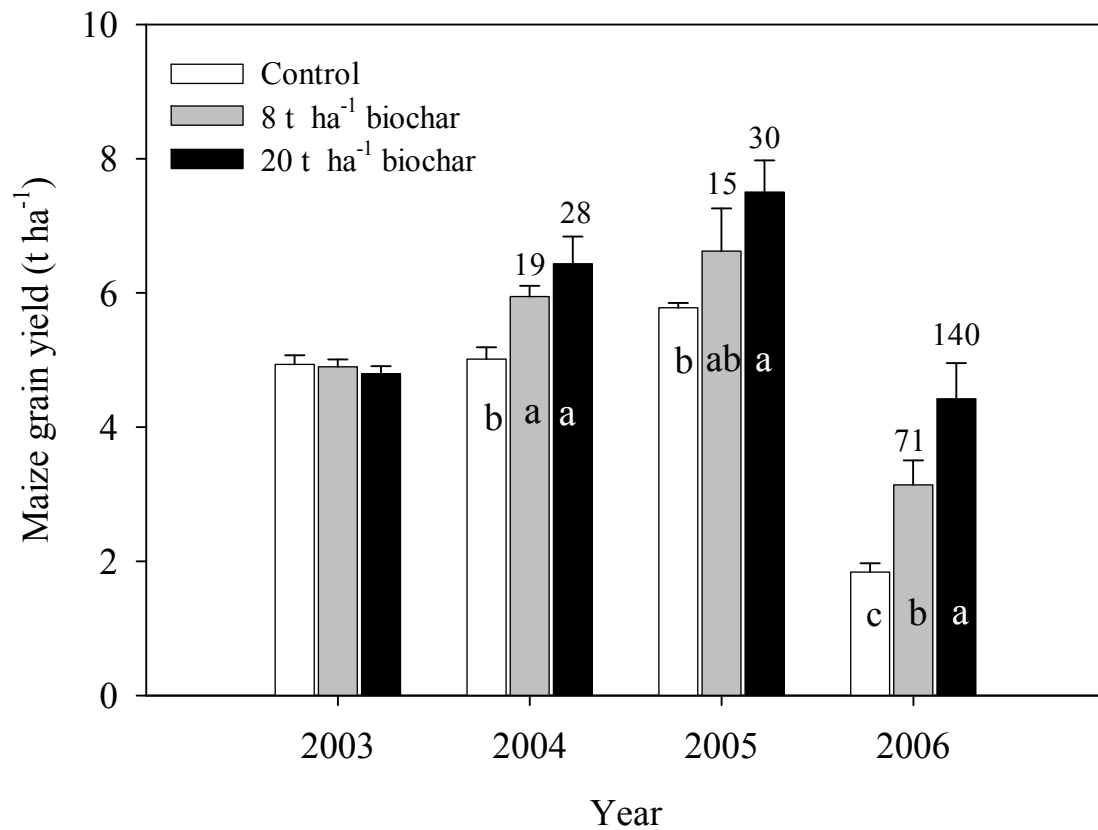


Figure 3.1. Maize grain yield on Colombian savanna Oxisol plots amended with biochar in late 2002 (\pm SE, $n=3$). Numbers above bars are percent yield increase compared to the optimally managed control, and different letters indicate significant differences between means ($p<0.05$) within single years.

Interestingly, between 2003 and 2005, no differences in HI were observed in the control plots, while the high biochar application rate produced significantly ($p<0.05$) increasing HI values each year.

Total nutrient uptake by the maize crop also increased overall with biochar application (Figure 3.2), or decreased in the case of Al. Total uptake of Sr, which is a common contaminant in fertilizers (Senesi et al. 2005) and behaves in soil and is taken

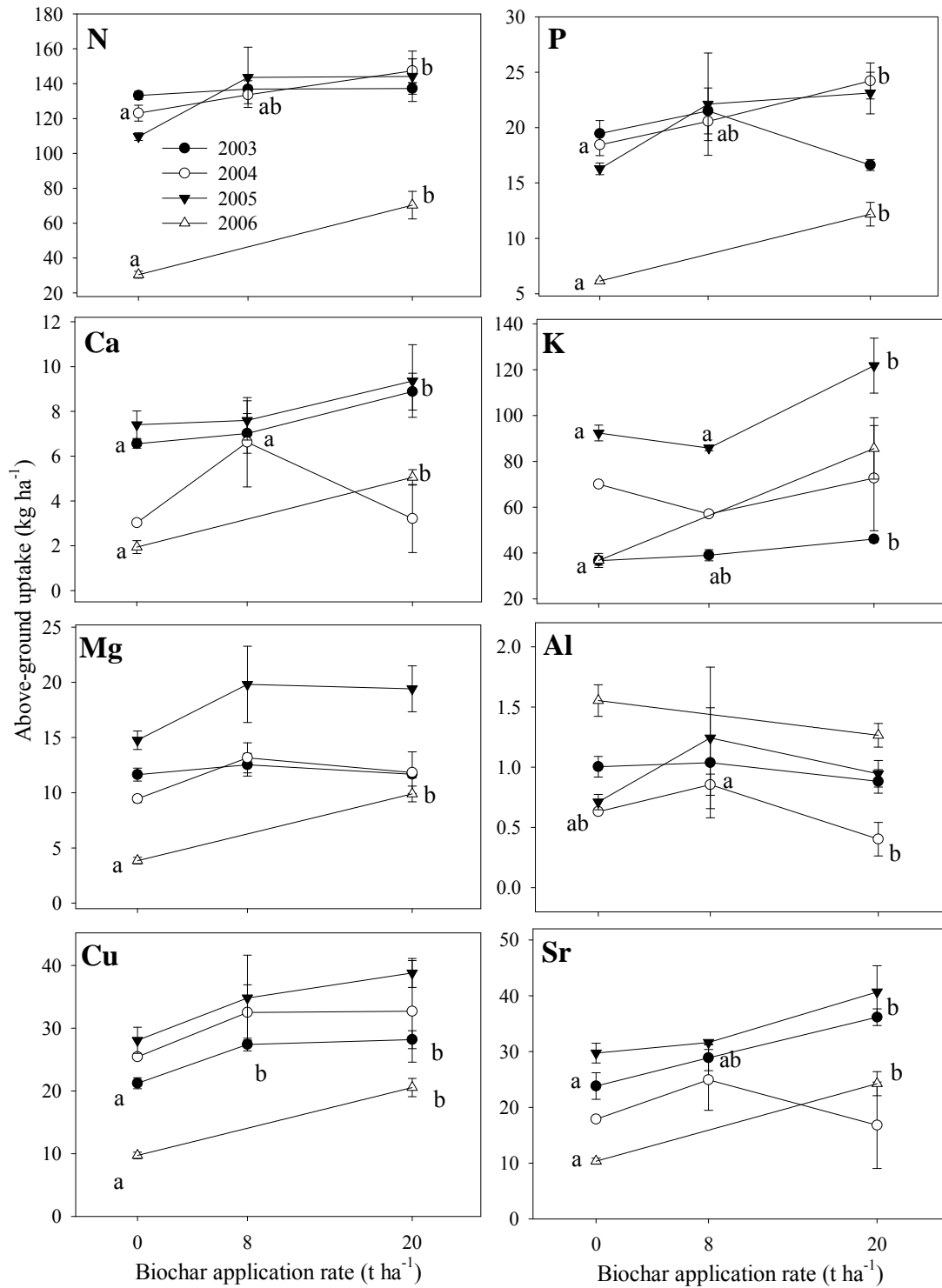
up by plants similarly to Ca (Aberg 1995), also increased with biochar application. For maize leaf samples taken at tasseling in 2006, concentrations of Ca (1.08 and 1.36 g kg dry matter⁻¹ for 0 and 20 t biochar ha⁻¹, respectively) and Mg (0.92 and 1.03 g kg dry matter⁻¹) were also significantly higher with the high biochar application rate than the control ($p < 0.05$). For soybean samples, total uptake of K (45.5 and 50.7 kg ha⁻¹ respectively), Cu (25.7 and 28.3 g ha⁻¹) and Mn (89.8 and 129.1 g ha⁻¹) in 2006 was significantly greater with biochar application ($p < 0.05$). Total uptake of Sr was not measured for soybean. Also, the Mn (64.2 and 97.5 mg kg dry matter⁻¹, respectively) content of soybean leaf tissue at flowering was greater when biochar had been applied.

Calcium concentration in maize grain decreased significantly ($p < 0.05$) after 2004 in all treatments, and Mg concentrations decreased over the duration of the experiment, significantly so ($p < 0.05$) in the control and high biochar application plots (Fig 3.3). With vegetative tissue these decreasing trends were less clear, especially in the case of Mg.

Soil properties

While nitrate accumulation below 0.6 m depth was observed (data not shown), no significant differences ($p > 0.05$) were found between biochar-amended and control plots for inorganic N content before seeding maize in 2006.

Figure 3.2. Total nutrient uptake by maize crops grown over 4 years after biochar application to a Colombian savanna Oxisol (\pm standard error, $n=3$). Different letters indicate significant differences between treatment means ($p<0.05$) within single years, letters not shown when differences not significant. Note different scales for y-axes.



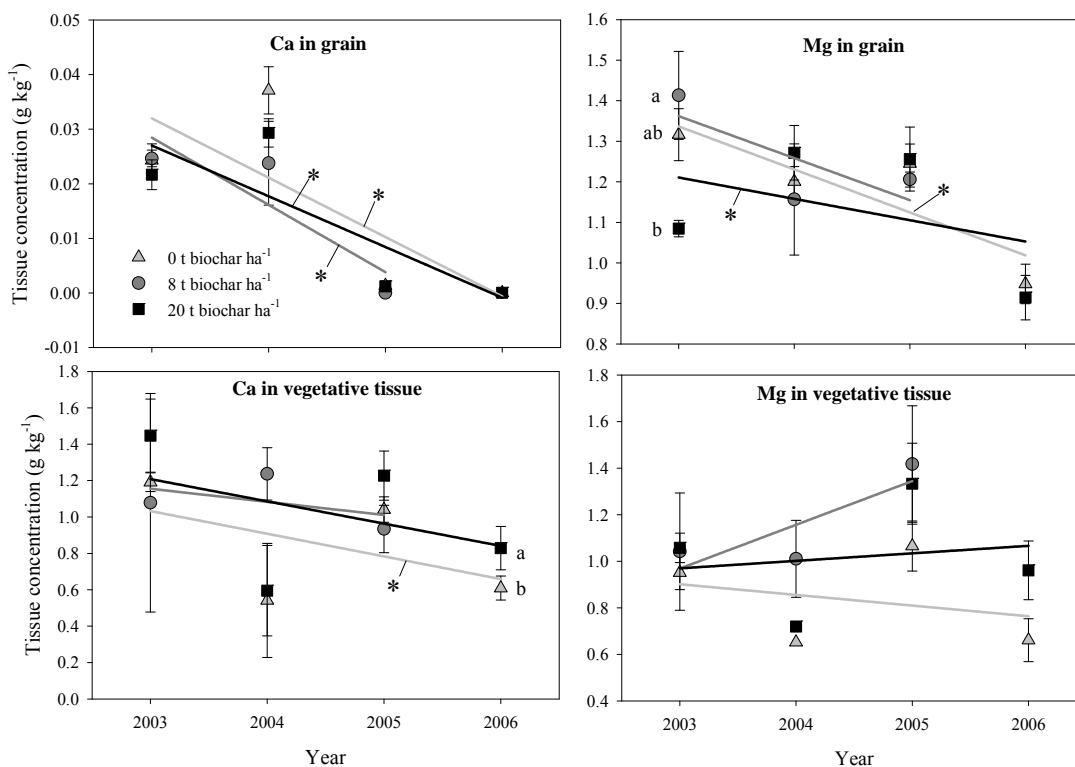


Figure 3.3. Maize tissue concentrations of Ca and Mg over 4 years after biochar application to a Colombian savanna Oxisol. Different letters indicate significant differences ($p < 0.05$) between treatments in a single year. * Indicates a significant ($p < 0.05$) trend over time.

Over most years and depth increments to 0.3 m, biochar application resulted in significantly ($p < 0.05$) greater available Ca (101-320% for significant differences between the control and 20 t ha⁻¹ application rate), Mg (64-217%), Mn (136-342%), Mo (573-860%) and Sr (251-591%), while the availability of Al and Fe showed a decreasing trend (Table 3.3). The depth at which amounts of available Ca and Mg increased with biochar became greater with time, with the increase being most important at the surface in 2003, at 0.05-0.1 m in 2004, and at 0.1-0.2 m in 2006. For

all biochar application rates, the concentrations of Ca and Mg to 0.3 m decreased between 2004 and 2006 by 20-30%, although the trend over time was not statistically significant. The effect of biochar addition on K availability was greatest in 2003, the year after application. Total C and N contents were not significantly different between treatments except in 2004, where the control plots contained more total C and N below the surface.

In 2004 and 2006, soil pH was significantly ($p < 0.05$) higher when biochar had been applied, at the depths where Ca and Mg availability was also significantly greater (Table 3.3). No statistically significant differences ($p > 0.05$) were observed for measurements of potential and effective CEC, exchangeable acidity and BS (data not shown). Potential CEC as determined from PZNC equations was $18.8 \text{ mmol}_c \text{ kg}^{-1}$ for the control and $81.2 \text{ mmol}_c \text{ kg}^{-1}$ for biochar-amended soil (data not shown).

Discussion

Yield increases with biochar application have been documented in controlled environments as well as in the field (reviewed by Blackwell et al. 2009; Lehmann and Rondon 2006 and Chan and Xu 2009; also Asai et al. 2009). Reported biochar application rates ranged from <1 to over 100 t ha^{-1} , and reported percent yield increases over comparable controls ranged from less than 10% to over 200%. Such high variation likely stems from the large range of crops and soil types used.

Table 3.3. Properties of a Colombian savanna Oxisol 1, 2 and 4 years after biochar addition in 2002. Different letters indicate significant differences between treatment means within single years and depths ($n=3$). Letters not shown when differences not significant.

Year	Biochar application rate t ha ⁻¹	Depth m	pH	Available								Total	
				Ca	Mg	K	P	Sr	Al	C	N		
2003	0	0-0.05	3.91	128.6b	57.1b	29.9	12.8	0.105b	1383.1	21.2	1.27		
		0.05-0.1	3.94	143.2	54.1	2.1	0.2	0.115	1392.0	20.9	1.25		
		0.1-0.2	3.94	44.5	21.8	<det	<det	<det	1420.7	14.5	0.85		
		0.2-0.3	3.97a	11.1	7.1	<det	<det	<det	1424.7	11.4	0.67		
		0-0.05	4.17	288.8a	93.7a	54.9	15.1	0.726a	1251.3	22.8	1.21		
	20	0.05-0.1	4.06	178.5	63.5	12.7	1.4	0.193	1299.1	22.6	1.18		
		0.1-0.2	3.92	36.0	17.6	<det	<det	<det	1345.0	12.3	0.76		
		0.2-0.3	3.90b	7.3	5.5	<det	<det	<det	1390.8	10.9	0.65		
		0-0.05	3.80	97.6b	56.6	49.2	7.2	0.076	1304.1	22.9	1.18		
		0.05-0.1	3.85b	113.4b	45.4b	15.1	0.1	0.087b	1323.8	25.0a	1.11		
2004	0	0.1-0.2	3.86	99.4	36.7	2.7	<det	0.033	1300.5	22.1a	1.33a		
		0.2-0.3	3.94	37.7	20.0	<det	<det	<det	1294.7	18.5a	0.76a		
		0-0.05	3.94	196.6a	77.1	43.9	8.3	0.331	1258.4	23.6	1.14		
		0.05-0.1	4.10a	265.8a	91.8a	11.3	<det	0.501a	1183.5	22.1b	0.95		
		0.1-0.2	4.09	161.0	65.4	<det	<det	0.138	1228.9	17.7b	0.80b		
	20	0.2-0.3	3.98	68.7	32.6	<det	<det	<det	1248.4	11.1b	0.49b		
		0-0.05	3.86	116.8	54.7	53.8	48.8	0.137	1333.9	19.9	1.22		
		0.05-0.1	3.89b	120.6	44.6	33.0	10.5	0.133b	1358.0	20.3	1.21		
		0.1-0.2	3.93	30.1c	14.6b	15.4	<det	<det	1107.6	15.9	0.95		
		0.2-0.3	3.99	12.0	8.4	2.7	<det	<det	1317.6	10.9	0.64		
2006	0	0.3-0.6	4.13	4.9	7.9	16.2	<det	<det	1275.3	7.3	0.44		
		0.6-1.2	4.27	11.0	10.8	11.3	<det	<det	1146.2	4.6	0.35		

Table 3.3 (Continued)

8	1.2-2.0	4.17	8.1	10.4	8.5	<det	1134.0	3.1	0.31
	0-0.05	3.87	71.4	37.8	58.3	25.4	0.035	24.3	1.37
20	0.05-0.1	3.93ab	130.4	44.6	39.0	6.5	0.179b	21.7	1.24
	0.1-0.2	3.99	86.4b	32.7a	12.7	<det	0.028	16.8	1.02
	0.2-0.3	3.96	23.3	13.1	2.1	<det	<det	12.0	0.71
	0-0.05	3.84	133.1	55.3	48.2	27.4	0.223	25.3	1.24
	0.05-0.1	4.03a	213.5	72.1	22.5	9.2	0.468a	20.1	1.51
	0.1-0.2	4.00	126.5a	46.3a	12.0	0.1	0.093	13.9	0.91
0.2-0.3	3.94	24.5	12.8	1.5	<det	<det	1290.6	10.5	0.64
	4.09	12.6	10.7	19.9	<det	<det	1292.2	8.2	0.49
0.6-1.2	4.19	13.4	12.4	10.2	<det	<det	1136.6	5.0	0.37
1.2-2.0	4.13	7.6	8.2	16.1	<det	<det	1142.6	4.0	0.35

<det: below detection limit

n/a: data not available

However, only a handful of reported field experiments took place over more than one year. Steiner et al. (2007) reported cumulative yield increases of rice and sorghum on a Brazilian Amazon Oxisol of approximately 75% after 4 growing seasons, when 11 t ha⁻¹ biochar was applied. In a degraded Kenyan Oxisol, Kimetu et al. (2008) found a doubling of cumulative maize yield after three repeated biochar applications of 7 t ha⁻¹ over two years. In both of these studies and as shown in the study reported here, inorganic fertilizers were applied equally in both the biochar-amended and the non-amended control. Here, the percent yield increase with biochar application increased gradually over time up to three years after application. A large decrease in overall yields was observed in the fourth year, accompanied by an even greater beneficial effect of biochar. A progressive increase in the beneficial effect of biochar over time was also observed by Steiner et al. (2007). This shows that biochar application to soil can provide increasing benefits over time.

Potassium availability was increased the most by biochar application in the year following its application, and this likely results directly from the considerable amounts of K that were added along with the biochar (Table 3.1) from which it is readily leached. Similar results for K were obtained by Lehmann et al. (2003) 37 days after wood biochar was added to an Oxisol from the Brazilian Amazon, by Chan et al (2007) 42 days after applying green waste biochar to an Australian Alfisol, and by Rondon et al. (2007) 75 days after wood biochar addition to the same soil as in the present study. However, the greater availability of this nutrient with biochar did not persist beyond the year after application. Steiner et al. (2007) did not observe greater K availability after one cropping season when wood biochar was added to a Brazilian Amazon Oxisol, but the biochar used contained small amounts of K. Several nutrients may be supplied in considerable amounts with biochar, depending on feedstock

(Gaskin et al. 2008). However, the application of these nutrients with biochar is unlikely to provide benefits for crop nutrition on the long term.

Biochar had the most significant effect on the availability of Ca and Mg, as well as Sr which was applied with fertilizer. In contrast to K, this increase in availability was not a result of nutrient release, because the amount of available Ca, Mg and Sr applied with biochar (6.6, 1.0 and 0.05 kg ha⁻¹, respectively) in 2002 is negligible, and mineralization of biochar in this environment is very slow (approx. 2% over 2 years) (Ch. 2). Calcium and Mg were applied as dolomite in 2002, and in small amounts with fertilizer thereafter. These nutrients are prone to extensive leaching in Oxisols (Cahn et al. 1993; Ernani et al. 2006). Although Ca and Mg stocks declined after 2004, Ca and Mg loss over time was lower with biochar application. Therefore, biochar helped mitigate the loss of applied Ca and Mg in the rooting zone, as also shown by the fertilizer-applied Sr.

The Ca and Mg contents of maize flag leaves at tasseling were significantly greater when biochar was applied in 2006. However, all flag leaf Ca and Mg contents observed here are still considered marginal for maize (Bergmann 1986). This, combined with the declining stocks of available Ca and Mg and the decrease in yield and HI in 2006 indicate that the system was Ca and Mg limited, and that the retention of these nutrients by biochar is responsible for the maize yield improvements observed. Indeed, in 2006 available Ca and Mg amounts in the soil to a depth of 0.3 m were lowest, but the beneficial effects of biochar on Ca and Mg nutrition were the greatest.

CEC increased only slightly after biochar additions that caused a significant increase, however, in pH. Despite the low increase in CEC, Ca and Mg uptake by crops was greater and leaching lower with biochar (Ch. 4). If biochar indeed improved

crop nutrition by Ca and Mg retention, then very low increases in CEC were sufficient.

Apart from direct nutrient additions or nutrient retention with biochar, other authors have attributed improvements in crop yields with biochar addition to its effect on soil pH (Rondon et al., 2007; Van Zwieten et al., 2007; Yamato et al., 2006), and to often pH-related increases in nutrient availability and/or reductions in Al^{3+} availability (Lehmann et al., 2003; Rondon et al., 2007; Yamato et al., 2006). Improvements to soil physical properties, such as reduced soil strength of a hard-setting soil (Chan et al., 2007) have also been offered as explanations for yield increases with biochar. The effects of biochar application in the field on soil biota have been poorly studied, however improved root colonization by mycorrhizal fungi with biochar has been shown (reviewed by Warnock et al., 2007). Here, yield improvements are attributed mainly to pH increase and nutrient retention.

Conclusions

A single biochar application to an infertile, acidic tropical soil improved crop yields up to at least four years after application. This indicates that a single biochar application may provide benefits over several cropping seasons, although longer-term studies are still lacking and needed to determine when a steady-state is reached or if and when a decline starts to occur. Although biochar may conceivably enhance crop growth through several mechanisms (microbiologically or through improved soil physical properties, for example), improved pH and base cation retention in the rooting zone likely caused improved crop nutrition in a high rainfall area.

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CHAPTER 4

NUTRIENT LEACHING IN A COLOMBIAN SAVANNA OXISOL AMENDED WITH BIOCHAR

Abstract

Nutrient leaching in highly weathered soils of the tropics often poses a challenge for crop production. We investigated the effect of applying biochar (biomass-derived black carbon) to a Colombian savanna Oxisol at 0 and 20 t ha⁻¹ on soil hydrology and nutrient leaching. Measurements were made over the 3rd and 4th years after a single biochar application before the 1st year. Nutrient contents of soil solution were measured under one maize and one soybean crop each year, using routine fertilization with mineral fertilizers. Leaching by saturated flux was assessed using zero tension lysimeters, while unsaturated losses were calculated using soil solution sampled with suction cup lysimeters in combination with water flux estimates generated using the model HYDRUS 1-D. No significant difference was observed in surface saturated hydraulic conductivity ($p>0.05$), soil moisture retention curves ($p>0.05$) or temporal dynamics of soil matric potential between biochar-amended and unamended soil, resulting in no ecologically relevant differences in unsaturated or saturated water movement between biochar treatments. However, nutrient leaching by both saturated and unsaturated flux measured immediately below the rooting zone of maize, at 1.2 m (where both saturated and unsaturated flows were available), was reduced with biochar application, with amounts of nutrients being lost by unsaturated flux being in general one order of magnitude greater than those lost by saturated flux. Total leaching reductions below the rooting zone amounted to 8% for NO₃-N, 23% for Ca, 28% for Mg, 36% for K and 19% for fertilizer-applied Sr over two years. These

reductions in leaching were related to significant ($p<0.05$) decreases in nutrient concentrations in the leachate (except for P and $\text{NH}_4\text{-N}$) and corresponded to 28 to 130% maize grain yield increases ($p<0.05$). We conclude that biochar applications decreased nutrient leaching by retention and not by decreasing water percolation on this Oxisol thereby improving crop nutrient uptake and yield.

Introduction

Understanding water flux through soil is important for crop as well as environmental management. Water can carry agricultural chemicals and nutrients away from plant root zones and into aquifers. The amount of rainfall which drains through soil as well as the physical characteristics of flux have significance for crop water and nutrition management, as a large proportion of applied as well as “resident” nutrients can be leached to areas below those explored by plant roots (Cahn et al., 1993; Melgar et al., 1992; Omoti et al., 1983; Randall et al., 1997), and this can occur very rapidly in well-aggregated soils (Renck and Lehmann, 2004).

Biochar (biomass-derived black carbon or charcoal) addition to soil has been shown to improve crop yields (Lehmann et al., 2003; Rondon et al., 2007; Steiner et al., 2007; Blackwell et al., 2008; Ch. 3), but its effect on soil hydrology and nutrient leaching has received less attention. Crop yield improvements and greater biomass production with biochar application to soil imply greater evaporative demands, thus in biochar amended soil more water may be lost to evapotranspiration. Less water would then move through the soil by unsaturated flux, in response to differences in matric potential.

Biochar materials are highly porous (Downie et al, 2009), and have a low density compared to soil. Biochar develops negatively charged surfaces as weathering

occurs (Cheng et al. 2006, 2008; Liang et al. 2006), and consequently forms complexes with soil minerals (Glaser et al., 2000). Also, biochar has been demonstrated to sorb a variety of molecules in soil including pesticides (Yu et al., 2006), simple hydrophobic organic molecules (Smernik, 2005) and plant leaf extracts (Pietikäinen et al, 2000). Soil-applied biochar likely favours the growth of microorganisms (Warnock et al, 2007), and this combined to interactions with minerals and other soil organic matter fractions may lead to greater soil aggregation.

Tryon (1948) reported that the water holding capacity of a sandy soil was improved by biochar addition in the laboratory, while biochar addition to a loam had no effect and to a clay soil reduced water holding capacity. All trends increased or decreased linearly with increasing biochar addition rates. The use of biochar in golf course substrates was promoted in 1943, and clear benefits for water management in turf in both dry and very wet conditions were reported as anecdotal evidence (U.S. Golf Association, 1943ab). However, we are unaware of any published information relating to hydrological effects of biochar application to field soil, for agronomic purposes.

Major et al. (2009) suggested several hypotheses for mechanisms through which biochar could both decrease and increase nutrient leaching after application to soil. For example, greater cation exchange capacity (CEC) with biochar could improve the retention of inorganic forms of nutrients on biochar surfaces. Alternatively, leaching could be promoted through facilitated transport of nutrients sorbed to biochar particles, or through improved saturated flux in soil due to increased soil aggregation with biochar. Also, improved crop production with biochar in itself can reduce nutrient leaching indirectly through greater nutrient and water uptake. The relative importance of these proposed mechanisms is not clear.

If biochar retains more nutrients, their loss through leaching could be reduced. This process for increasing nutrient availability has been shown in laboratory (Dünisch et al., 2007) and greenhouse studies. Leaching with biochar addition to soil was measured in greenhouse pot experiments by Lehmann et al (2003), who found “fresh” biochar addition to a tropical Oxisol lead to a 60% reduction in leaching of applied ammonium (NH_4^+) over 40 days of cropping rice (*Oryza sativa* L.), compared to treatments not receiving biochar. Calcium (Ca) and magnesium (Mg) leaching was also reduced early on in the trial, but potassium (K) leaching was not, presumably because the biochar material used contained large amounts of K (Lehmann et al., 2003). In the field, a greater proportion of isotopically labeled nitrogen (N) was retained in an Oxisol cropped to *Sorghum* sp. in the Brazilian Amazon when biochar was added compared to compost, although leaching was not measured directly (Steiner et al., 2007, 2008). However, we are unaware of any published work directly assessing the effect of biochar on nutrient leaching in the field.

This work was undertaken to investigate the effects of biochar on soil physical properties, and water movement and nutrient leaching by saturated and unsaturated flux through a heavy clay field soil. The following hypotheses were addressed: (i) surface soil hydraulic conductivity is greater with biochar application, due to improved aggregation, (ii) following rain events, saturated water flux is greater with biochar application, due to greater soil aggregation, (iii) total water flux (unsaturated and saturated) in the soil profile is reduced with biochar application, due to greater evaporative demands by crops, and (iv) nutrient leaching by saturated flux is thus enhanced, while total leaching is reduced.

Materials and Methods

Field plot establishment

Field work took place on a Typic Haplustox clay soil (Soil Survey Staff, 1994) at Matazul farm (N 04° 10' 15.2", W 072 ° 36' 12.9"), in Colombia's non-flooded oriental savanna region. The soils are acid with a pH (KCl) of 3.87, low in organic C with 20.1 g kg⁻¹ and total N with 1.2 g kg⁻¹ at 0-0.1 m, and an effective CEC of 59 mmol_c kg⁻¹ (Ch. 3). The prevailing slope at the experimental location was estimated at approximately 3%. Annual rainfall measured at a research station approximately 200 km northeast of the research plot is 2200 mm, and average annual temperature is 26°C (Rippstein et al., 2001). A marked dry season occurs between January and March. In December 2002, native savanna grasses were chisel plowed and dolomite was applied at 2.2 t ha⁻¹, and incorporated to 0.30 m using two passes of a chisel plough. Biochar (Table 4.1) was applied nine days later in a randomized complete block design with 3 replicates. Plots measuring 4 by 5 m were separated by 1 m within blocks between replicates and 2 m between blocks. Methods for biochar analysis are described elsewhere (Ch. 3). Biochar was incorporated shortly after application with one pass of a disc harrow to a depth of 50 mm. Application rates were 0, 8 and 20 t ha⁻¹, for a total of 9 experimental plots. Dolomite and biochar were applied on only one occasion. The biochar used was produced commercially for cooking from a variety of wood species, and was ground using a tractor and a roller, to pass through a 5 mm mesh. From May 2003 to December 2006, a maize (*Zea mays* L.) - soybean (*Glycine max* (L.) Merr.) rotation was grown on the plots. The experiment also included plots seeded to pasture grasses and plots left to savanna vegetation, however only the crop rotation plots were used for the work reported here. Hydrological monitoring and soil solution sampling were carried out between April 2005 and December 2006, over 2 growing seasons and 4 crops. Throughout this report, time is shown as consecutively numbered days where

day 1 is 5 May 2005 and the last day, 595, is 20 December 2006. No tillage was carried out after biochar application, which occurred 2 years before this work started. Crops were planted and fertilizer banded at seeding by opening a furrow with hand tools, and fertilizer side-dressed after crop establishment was applied to the surface. More details on crop management can be found in Ch. 3.

Table 4.1. Properties of wood biochar made commercially for cooking and applied to a Colombian savanna Oxisol in 2002. Values shown are averages of two analytical replicates

		Biochar
pH	(H ₂ O)	9.20
pH	(KCl)	7.17
Total C	%	72.9
Total N	%	0.76
C/N		120
H/C		0.018
O/C		0.26
Ash	%	4.6
Ca*	µg g ⁻¹	330.7
Mg*	µg g ⁻¹	48.9
P*	µg g ⁻¹	29.8
K*	µg g ⁻¹	463.8
Si*	µg g ⁻¹	2.6
CEC	mmol _c kg ⁻¹	111.9

*Available nutrients extracted with Mehlich III (Mehlich 1984) and quantified by inductively coupled atomic emission spectroscopy (ICP-AES).

Soil sampling and measurements

Soil was sampled by hand on 25-26 April 2006, to a depth of 2.0 m using a core auger. Sampling depths were 0-0.15, 0.15-0.3, 0.3-0.6, 0.6-1.2 and 1.2-2.0 m. Within a given plot, soil from each depth increment was pooled in buckets and thoroughly mixed by hand before a subsample was taken and kept on ice. After

sampling, 30 grams of moist soil were promptly weighed into plastic bottles where 150 ml of 1 N KCl was added for extraction of inorganic N. Jars were shaken by hand for 5 min, and transported for 1 h above the rear wheels of a pickup truck on a bumpy dirt road. Jars were then kept at 4°C for several days until soil settled, and 20 ml supernatant was transferred to small plastic vials and kept frozen until analysis. At the time of extraction, some moist soil was weighed and set aside for moisture determination after drying at 105°C for 24 h and re-weighing. Ammonium and nitrate concentrations of soil extracts were determined colorimetrically on a segmented flow analyzer (Autoanalyzer 3 by Bran+Luebbe, Rochester NY, USA). Data were corrected for N contributed by the extractant and transformed to represent concentrations on a dry soil basis. Leftover soil was air-dried, crushed, sieved and used for particle size distribution analysis using the hydrometer method (Bouyoucos 1927) after dispersion with sodium hexametaphosphate.

In July 2006, additional soil samples were taken to analyze soil physical properties. A small pit was dug to 0.3 m in each plot. Soil was taken inside aluminum rings at the surface, 0.15 and 0.3 m depths. Two rings were taken at each depth and from each of two opposite sides of the pits, one 25 mm high and one 50 mm high (both with 50 mm diam.). Six rings per depth and treatment were thus obtained, for a total of 36 rings of each size. Since in Ch. 2 we observed no change in carbon contents or isotopic signature below 0.3 m depth in biochar-amended plots of a nearby experiment on sandier soil, we assumed no effect of biochar application on physical properties for depths of 0.6, 1.2 and 2.0 m. For characterizing soil physical properties at these depths, two soil pits located outside but directly adjacent to the experiment were used. Two depth profiles were sampled in each pit, on the side closest to the experiment. This yielded a total of 4 samples from each depth. Bulk density was measured with the 50-mm rings by weighing after oven drying at 105°C for 24 h.

Smaller rings were used to determine the moisture retention curve using a pressure plate extractor (SoilMoisture Equipment Corp., Santa Barbara CA, USA).

On 16 May, 21 September and 20 December 2006, surface infiltration rates were measured using a constant head disk infiltrometer with a Mariotte device and a 22 mm diameter, serrated stainless steel infiltration surface (Mini Disk Infiltrometer model S by Decagon Devices, Inc. Pullman WA, USA). For all infiltration trials the suction of the device was set to 20 mm. At four different locations between rows inside each replicated plot, a thin layer of quartz sand was applied to the soil to ensure good contact, the height of the water column was measured at time 0, and after placing the filled infiltrometer on the soil the volume of water remaining was recorded at times 10 s, 20 s, and then at 20 s intervals until 280 s had passed. This yielded a total of 12 infiltration trials, per treatment and date. Before measurements were made on a plot, the volumetric moisture content of the surface soil was measured at three randomly selected locations between rows, using a hand-held frequency domain reflectometry (FDR) probe (model ML2 connected to HH2 display by Delta-T Devices, Cambridge, UK). For the last infiltration measurement date, the FDR probe was damaged and soil moisture contents were determined gravimetrically using destructive soil sampling in one location per plot. In September 2006, infiltration was also measured using a double-ring infiltrometer with a changing pressure head, where rings 0.58 and 0.28 m in diameter were inserted at one location inside each replicated plot. Water was added to both rings and the water level in the inner ring was measured at 16 time points over 2 h. No soil moisture content data are available for this infiltration measurement.

Hydraulic conductivity at the surface was calculated for each disk infiltrometer trial using the following equation (Zhang, 1997):

$$I = C_1 t + C_2 t^{1/2}$$

where I is cumulative infiltration, t is time and C_1 is related to hydraulic conductivity (k) by the following equation:

$$k = C_1/A$$

Parameter A is a value relating the van Genuchten parameter (Carsel and Parrish, 1988) for the soil type to the suction rate and radius of the infiltrometer disk, in this case $A=4.4$. For a few of the trials, this method could not be used because C_1 was a negative value. In these cases, the method proposed by Vandervaere et al. (2000), which allows the effect of contact sand to be visualized and removed from the data was employed. The value of C_1 was then determined graphically using the equation:

$$dI/dt^{1/2} = C_2 + 2 C_1 t^{1/2}$$

Infiltration data obtained from the double ring infiltrometer was used to determine hydraulic conductivity by plotting cumulative infiltration in cm against time, and applying a linear regression to the portion of the data corresponding to steady-state infiltration (Reynolds et al. 2002).

Maize rooting depth

Maize roots were sampled during grain filling in July 2006, using a 50 mm diameter auger. Five profiles were sampled on a transect in each maize plot: one on a crop row, one on either side of this row at a distance of 0.1 m, and one on either side of the row at a distance of 0.2 m. Depth increments were 0-0.2, 0.2-0.4, and 0.4-0.6 m. Samples were taken at 0.6-0.8 and 0.8-1.0 m in only one of the replicated plots. Samples were pooled by depth for each plot, and soil was washed from roots with water. Roots that were visually deemed to be alive were then dried at 65 °C to constant weight and weights recorded.

Soil water potential measurement

Tensiometers were used to measure soil water potential and were constructed from PVC piping glued to 1-bar air entry potential ceramic cups (SoilMoisture Equipment Corp., Santa Barbara CA, USA), with the top end of pipes extended by a transparent acrylic tube. Ceramic cups were glued using pavement epoxy glue (Adhesivo epoxico Polarix by E&M, Bogota, Colombia) which remained flexible while maintaining vacuum. In each plot receiving 0 or 20 t biochar ha⁻¹, two tensiometers were inserted vertically into the soil to each depth of 0.15, 0.3, 0.6, 1.2 and 2.0 m, for a total of six tensiometers per depth and per treatment. Tensiometers were installed in December 2004 and allowed to equilibrate with soil until measurements began in May 2005. Preferential flow was avoided by tightly fitting 50 x 50 mm pieces of thick vinyl floor covering, in the center of which a round opening had been cut out, around the shafts at the soil's surface. Tensiometers were interspersed with an equal number of suction cup lysimeters used to measure nutrient leaching, and the location of each unit was established by modifying a randomly generated design to ensure that no two units of equal depth were directly next to each other. All equipment was located on two lines, one falling within a crop row and one falling between two crop rows, near the edge of each replicated plot.

Tap water was de-aired by boiling for 5 minutes and stored in sealed plastic bottles. Tensiometer shafts were filled with this de-aired water and sealed with rubber septa secured with a tightly wrapped strip of rubber. Tensiometers were re-filled as needed, on the day before readings were taken. Vacuum in the air pocket was measured by puncturing the rubber septa with a needle connected to a hand-held vacuum gauge with a 1 hPa display (model TensioCheck TC 03S by Tensio Technik, Geisenheim, Germany). The water level inside the shaft was measured with a ruler against a reference line of known height. In the case where the water level was not

visible through the clear portion of the shaft, a linear relationship between the volume of water added to reach the reference line and its corresponding water height was used. The height of the water column was subtracted from the tension in the air pocket to obtain values for soil matric potential.

Matric potential was measured between 7:00 and noon, daily from May to November 2005, and weekly during December 2005 and from 28 March to 13 Dec 2006. During the dry season from January to March, soil matric potential was too low to be measured using tensiometers.

Suction cup lysimeters

The plots that received 0 and 20 t biochar ha⁻¹, were equipped with suction cup lysimeters constructed from 1 bar air entry potential ceramic cups glued to PVC pipes using pavement epoxy glue as described above. Capillary polyethylene tubing was placed to touch the bottom of each cup. The mouths of the cups were sealed around the tubing using silicon adhesive, with the capillary tubing emerging from the PVC tubes. Twelve suction cups, i.e. 2 per replicate plot, were inserted at the same time and depths as and interspersed with tensiometers. Preferential flow was also controlled as described above.

The capillary tubing originating from each ceramic cup was fitted through rubber stoppers and into dark green glass collection bottles which had been washed with dilute HCl and NaOH, with each bottle collecting water from the two lysimeters present at a given depth in the replicate plot (i.e. one within and one between crop rows). Vacuum was applied uniformly to all collection bottles by three 12V battery-operated pumps (Gast Manufacturing Inc., Benton Harbor MI, USA) regulated by vacuum switches (Square-D, Rueil-Malmaison, France) (one set per replicate plot).

Vacuum was applied continuously to the ceramic cups, with infrequent interruptions due to sampling, maintenance or battery failure. On 3 June 2005, after 2 weeks of flushing the system at high vacuum, switches were set to turn pumps on when pressure dropped to -135 hPa, and off when pressure reached -200 hPa. During the last 2 weeks of the 2005 growing season, when rains had stopped and the soil was drying, switch settings were increased to -200 and -270 hPa, respectively. Sampling ended on 27 December 2005, when the soil was very dry and the system failed. In 2006, switch settings were set at -135 and -200 hPa on 27 March, and -200 and -270 hPa on 3 August. The last sampling date was 14 December 2006, at soybean harvest.

Collection bottles were emptied weekly and soil solution subsamples stored at 4 or -20°C in plastic bottles until being shipped to the US by courier within 2 months, and then kept between -20 and 2 °C until analysis. After each emptying of field collection bottles, a solution of HgCl₂ was added as a biocide to achieve a final concentration of 30 µM in a 500-ml sample. The water samples collected were analyzed for nutrients and strontium (Sr), which is a common contaminant in fertilizers (Senesi et al. 2005) and behaves in soil and is taken up by plants similarly to Ca (Aberg 1995) by atomic emission spectrometry (Trace Analyzer by Thermo Jarrell Ash, Franklin MA, USA), nitrate using an ion chromatograph (model ICS 2000 by Dionex Corp., Bannockburn IL, USA), ammonium colorimetrically by the phenate method (method 4500-NH₃F in Clescerl et al., 1999), and pH using a gel electrode (Symphony by VWR, West Chester PA, USA).

While it cannot be ruled out that water moving by saturated flux was also sampled by suction cup lysimeters, we consider this to have been minimal and hereafter refer to data obtained from these as relating to unsaturated flux.

Logged equipment

Datalogged tensiometers were inserted from the walls of a 2 m deep, plastic-lined soil pit giving access to both the 0 and 20 t ha⁻¹ biochar plots of one of the replicates. Tensiometer shafts measured 0.3 m, and these were inserted at a 30° angle such that the ceramic cups rested at depths of 0.15, 0.3, 0.6, 1.2 and 2.0 m, with one tensiometer per depth per treatment. De-aired water as explained above was used to fill tensiometers, and these were fitted with pressure transducers (model SWT3 by UMS, München, Germany) connected to a data logger (model DL2e by Delta-T Devices, Cambridge, UK). Soil matric potential was measured every 10 minutes during the 2005 and 2006 rainy seasons, and the tensiometers were re-filled at least weekly with de-aired water. Measurement intervals were set at 1 minute for approximately one month in late 2006.

Frequency domain reflectometry (FDR) soil moisture probes (model Theta probe ML2 by Delta-T Devices, Cambridge UK) were inserted from pit walls on 28 April 2006, at depths of 0.15 and 0.3 m with one probe in each treatment and at each of these depths. These were logged as above. When removing equipment from the field in late Dec. 2006, it was noted that the probe inserted at 0.15 m in the unamended control had not been installed correctly, and data from this probe were not used. At depths of 0.6, 1.2 and 2.0 m, a handheld version of the logged probes was used on 4 occasions to collect soil moisture data at a range of matric potentials.

Saturated flux measurement

Zero tension lysimeters were built from aluminum sheeting folded into a square funnel shape, draining into a tipping-bucket “spoon” taken from rain gauges (Rain-O-Matic by Pronamic, Silkeborg, Denmark). Spoons were connected to the DL2e data logger and water draining through the funnels was logged in 5-ml

increments, every 10 minutes. Glass wool was placed at the bottom of the funnels and these were filled with a mixture of river and quarry sand washed with dilute HCl and NaOH and containing 0.02% carbon by weight. These were installed from the soil pit, at depths of 0.15, 0.3, 0.6 and 1.2 m, with one replicate each in the 0 and 20 t ha⁻¹ biochar plots. The bottom part of funnels which housed the tipping buckets drained through plasticizer-free Tygon® hose into amber glass collection bottles washed with dilute HCl and NaOH. To avoid contamination from water potentially flowing outside the hoses into the bottles, holes were cut in the center of square pieces of rubber, and these were tightly inserted around the tubing, above bottle caps. The volume of accumulated soil solution was recorded at least weekly when solution had been collected, by measuring height with a ruler and converting to volume with an established relationship. Soil solution sub-samples were placed in borosilicate glass vials and any excess discarded. Samples were analyzed using the same techniques as described for suction cup samples, except vacuum filtering through a 0.45- μ m membrane was carried out before analyzing samples for NO₃-N by ion chromatography. After each sampling a solution of HgCl₂ was added as a biocide to the collection bottles, as to achieve a concentration of 30 μ m in a 1-L sample.

Nutrient leaching by saturated flux was calculated by multiplying flux through zero tension lysimeters by soil solution nutrient contents.

Meteorological data

In December 2004, a tipping bucket rain gauge (Rain-O-Matic by Pronamic, Silkeborg, Denmark, 1 mm per tipping) connected to an event logger (HOBO Event by Onset Computer Corp., Bourne MA) was installed in a corner of the experimental area. A weather station (HOBO MicroStation by Onset Computer Corp., Bourne MA, USA) was installed in March 2006 along an edge of the experimental area. Every 10

min, rainfall was logged using a tipping bucket rain gauge (0.2 mm per tipping), global solar radiation using a silicon pyranometer, and temperature using a platinum resistance temperature detector (all by Onset Computer Corp., Bourne MA, USA). Relative humidity was logged using a capacitive RH chip (model CS500 by Campbell Scientific, Logan UT, USA) connected to the DL2e data logger. For the year 2005, weather data (except for rain) needed for water modeling were obtained from Colombia's Institute for Hydrology, Meteorology and Environmental Studies (IDEAM) for a station located ca. 52 km northeast of the experimental plots. Data collected in 2006 at this station was also obtained and used to check correlation with measured Matazul data. Correlation coefficients were high for global radiation (0.70) and average daily relative humidity (0.54), and lower for daily minimum temperature (0.38), although the amplitude of temperature variation was only 6 °C for the study period.

Modeling

Total water flux (both saturated and unsaturated) estimates were generated using the one dimensional, finite element HYDRUS 1D model v. 4.05 (Šimůnek et al., 2008), which numerically solves the Richards equation (Richards, 1931) for variably saturated flux. Potential evapotranspiration (ET) estimates were generated for input into HYDRUS using weather data obtained either from the weather station or IDEAM, and the software application RefET (Allen, 2001). Output from the software generated with the Priestley-Taylor equation (Priestley and Taylor, 1972) was partitioned into evaporation (E) and transpiration (T) using the following equations (Ritchie, 1972):

$$E=(1-SCF)*ET$$

$$T=SCF*ET$$

and $SCF=1-e^{(-a*LAI)}$ where the radiation extinction by the canopy, $a=0.463$

Although leaf area index (LAI) was not measured directly, curves of changes in LAI over time reported for tropical America by Sierra et al. (2003) for maize and by Sinclair et al. (2003) for soybean were used to create a model of LAI adjusted for planting and harvest times used here. HYDRUS was run four times, one for each treatment and year. Inverse modeling solutions were used in each run, with an input of either datalogged or hand read tensiometer data used to optimize measured soil hydrological parameters.

While only saturated flux was measured with zero tension lysimeters, both saturated and unsaturated flux were accounted for by the HYDRUS model. However, since saturated flux as measured in the field and model output were not deemed to be strictly additive, we opted to use model output multiplied by nutrient concentrations sampled by suction cup lysimeters in order to calculate leaching by unsaturated flux.

Due to problems with powering the DL2e datalogger properly in 2006, data for logged tensiometers, soil moisture probes and the RH probe was available only for several days at the beginning of the 2006 rainy season, and for 53 days at the end.

Statistical analyses

Statistical differences between treatment means were determined using PROC GLM in SAS (SAS Institute, Inc 2003). For measurements taken repeatedly over time, measurement days were treated as replicates and time was not included as a predictor in the model. In the case of nutrient flux by unsaturated flux, after observing diagnostic residual plots it was deemed necessary to log transform all flux data, in order to comply with the model's assumption of equal variance.

Results

Soil characteristics

The soil's particle size distribution to 2 m was not affected by biochar application ($p>0.05$), however the clay content significantly increased ($p<0.05$) between 0.6 and 1.2 m (data not shown). Significant differences ($p<0.05$) in bulk density were found only at 0.15 m, where the density of unamended soil (1.22 g cm^{-3}) was greater than that of biochar-amended soil (1.11 g cm^{-3}) (Figure 4.1).

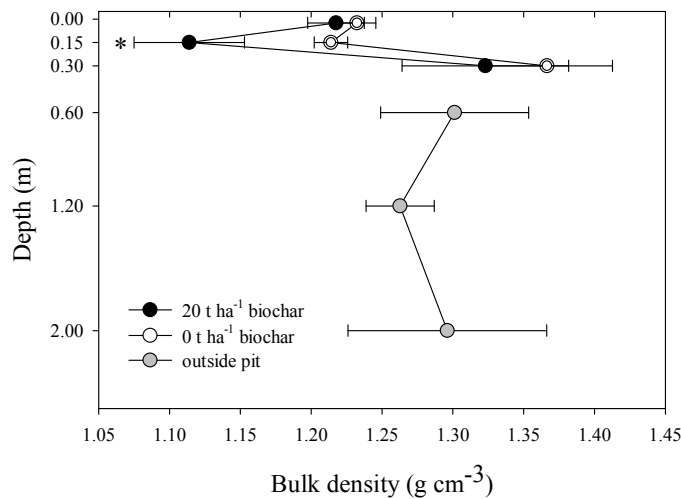


Figure 4.1. Bulk density of a Colombian savanna Oxisol, four years after applying 0 or 20 t ha⁻¹ biochar. Bars represent standard errors ($n=3$). * indicates a significant difference between treatments ($p<0.05$).

The moisture retention data at the surface, 0.15 and 0.3 m depths were also unaffected by biochar application ($p>0.05$; data not shown).

Surface saturated hydraulic conductivity measured using the disk infiltrometer was greater in the non-amended controls at all three measurement dates (Figure 4.2), but these differences were not statistically significant ($p>0.05$). Measurements made using this technique exclude macropores, due to the 20 mm suction applied by the

device. When measured using the ring infiltrometer, saturated hydraulic conductivity was greater in the biochar-amended plots, but again differences were not significant ($p>0.05$). Double-ring infiltrometer measurements include infiltration through all pore sizes.

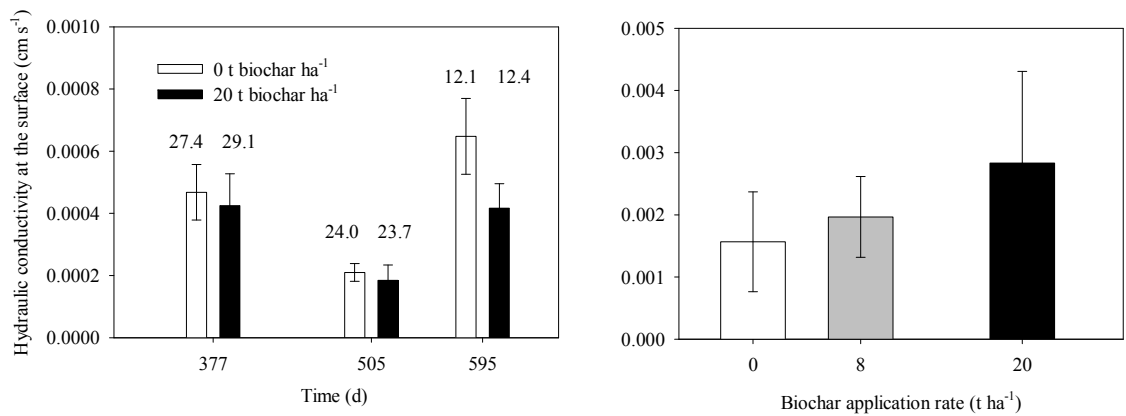


Figure 4.2. Hydraulic conductivity measured with a disk infiltrometer (left panel, \pm SE, $n=12$) and a double-ring infiltrometer (right panel, \pm SE, $n=3$) on a Colombian savanna Oxisol during the fourth year after biochar application. Numbers above bars show the surface soil's percent volumetric moisture content at the time of measurement.

While nitrate accumulation below 0.6 m depth was observed (data not shown), no significant differences were found between biochar-amended and control plots for inorganic N content before seeding maize in 2006.

Root biomass

No significant differences in root mass or percent change in mass between depths were found between treatments, from depths for which replicated samples were available (0-0.6 m) ($p>0.05$, data not shown). Root mass was only reduced by 18, 19

and 24% between 0-0.2 and 0.8-1.0 m increments when 0, 8 and 20 t biochar ha⁻¹ had been added, respectively. The majority of roots were assumed to be found above 1 m, for modeling purposes.

Saturated flux

A considerable proportion (up to 41%) of rainfall incurred during the monitoring period was collected by zero tension lysimeters. Cumulatively, the most water was collected at 0.6 m, followed by 0.15, 0.3 and 1.2 m and in general less water was collected when biochar was added, except at 0.6 m (Table 4.2). In total, 72 saturated flux events were recorded during the sampling period, and water was collected in only one lysimeter at a time on 38% of those events. Most of these events when water flux was only registered in one lysimeter (63%) occurred at 0.15 m in the control treatment, and 25% occurred at 0.6 m in the biochar-amended plot (data not shown). Water collection was the least frequent at 1.2 m, followed by 0.3 m. Water flux was usually initiated at 0.15 m depth in the plot that did not receive biochar. When the saturated flux events on single days in amended and control plots are compared, the intensity of flux (in mL min⁻¹) did not show consistent trends.

Soil water potential and water content

Differences in matric potential measured over two rainy seasons with replicated tensiometers showed varying trends with depth (data not shown): at 0.15 m, biochar-amended plots generally had a slightly lower matric potential than control plots (-111.8 vs. -101.2 hPa on average over all sampling dates, respectively), at 0.3 m matric potential was increased with biochar addition (-90.1 vs. -101.8 hPa), at 0.6 m it

was lower (-72.2 vs. -62.6 hPa), and at 2.0 m it was greater (-45.0 vs. -52.3 hPa). All differences are significant ($p < 0.05$), and no differences were found at 1.2 m.

Datalogged tensiometers show that at all depths, matric potential was generally lower (i.e. the soil was drier) when biochar had been applied than in the absence of biochar application. At the onset of rain events, the soil was drier where biochar had been applied for 81, 79, 64, 93 and 100% of rain events observed in 2005 (number of events=73, 67, 22, 15 and 13) at 0.15, 0.3, 0.6, 1.2 and 2.0 m depth, respectively. A rain event was defined as one which caused a rise in matric potential of at least 10 hPa.

The highest matric potential observed after rain was higher in the control plot, in 45, 84, 86, 93 and 77% of the rain events recorded in 2005 at the respective depths. Tensiometer data for 2006 were only available for short periods due to problems with the datalogger, and 5, 4, 5, 3 and 3 rain events were observed for each respective depth. Trends at the onset of rain events observed for those events were similar to those seen in 2005, but the highest matric potential after rain events was usually found in the biochar-amended treatments for the few events observed in 2006. Thus, based on more extensive data for 2005, the soil was usually slightly drier with biochar application and did not become as wet as the control when it rained. However, these differences were very small (< 10 hPa).

Surface soil volumetric moisture measurements taken when measuring infiltration indicate that biochar-amended soil had slightly greater moisture content, but these differences were not significant overall ($p > 0.05$) (data not shown). Datalogged moisture probes installed at 0.3 m show that moisture content was on average 3% greater when biochar had been applied (data not shown, and no data available at 0.15m).

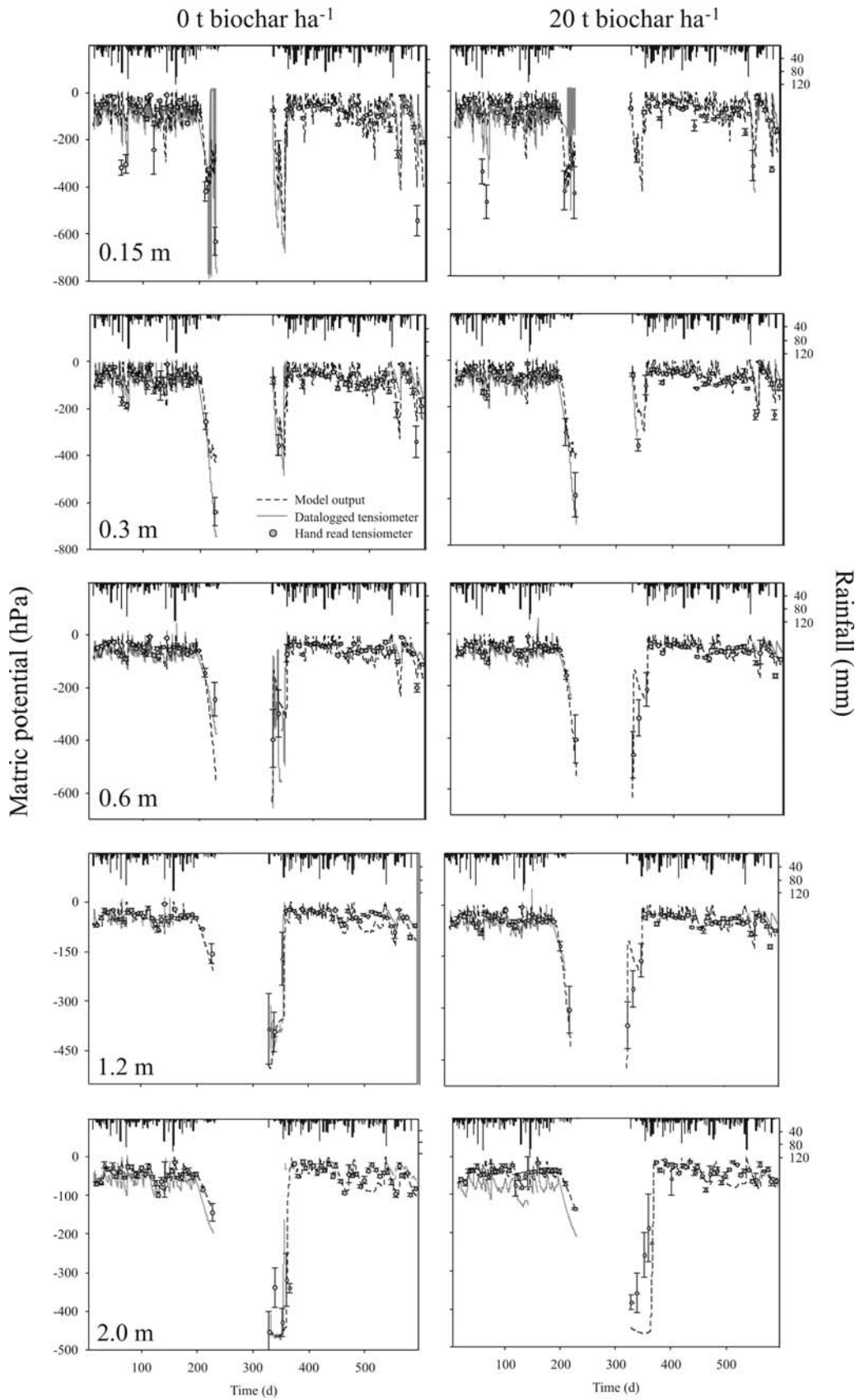
Unsaturated flux modeling

Matric potential output from HYDRUS fit well with values measured using hand-read tensiometers, and to a lesser degree with logged tensiometers (Figure 4.3). Total water flux over the 2005 and 2006 rainy seasons at the various measurement depths varied only slightly between the control and the biochar-amended treatments (0.2-1.4%; Table 4.2). Total flux tended to be greater with biochar application near the topsoil, and lower with biochar application at 0.6 m and below.

Nutrient leaching by saturated flux

The concentration of nutrients in soil solution moving by saturated flux varied widely throughout the sampling period and increased after fertilization events, especially at 0.15 and 0.3 m (data not shown). At depths below 0.15 m, biochar application reduced leaching by saturated flux of Ca by 27-77%, Mg by 37-80%, NO₃-N by 18-78%, P by 4-46%, Sr by 2-82%, and K by 0-71% (Table 4.2). Although absolute amounts of nutrients leached were low at 1.2 m, this is where maximum leaching reductions occurred for all of the above elements. At 0.3 and 0.6 m, concentrations of nutrients were generally lower when biochar was applied (Table 4.2). At 0.6 m, total nutrient amounts leached were reduced despite greater water flux with biochar application. Both mean and flux-weighted soil solution pH were lower with biochar application at 0.15 and 0.3 m, and greater at 0.6 and 1.2 m (Table 4.3).

Figure 4.3. Soil matric potential measured over two rainy seasons with datalogged and hand read tensiometers as well predicted by the HYDRUS model, on control and biochar-amended plots on a Colombian savanna Oxisol.



Amounts of NO₃-N and NH₄-N leached by saturated flux at 0.6 m were considerably greater than at other depths (Table 4.2).

Nutrient leaching by unsaturated flux

The concentrations of Ca, K, Mg, and Sr, sampled using suction cup lysimeters were significantly greater ($p<0.05$) at 0.15 m when biochar was applied (Table 4.2). At 0.3 m, biochar application resulted in significantly greater ($p<0.05$) concentrations of Ca, Sr and NO₃-N and at 0.6 m, and concentrations were significantly greater ($p<0.05$) for Ca, K, Mg, Sr, and NH₄-N and NO₃-N. Concentrations generally followed the same trend over time whether or not biochar was applied (data not shown). After fertilization events, nutrient concentrations increased at 0.15, 0.3 and 0.6 m (data not shown).

Biochar application resulted in lower concentrations ($p<0.05$) of Ca, K, Mg, NO₃-N and Sr at 1.2 m, which is immediately below the crop rooting depth. At 2.0 m concentrations were generally one order of magnitude lower than at 1.2 m, and significantly greater when biochar was applied ($p<0.05$) for Sr. At this depth, significant concentration reductions ($p<0.05$) with biochar application were observed for K, P and NH₄-N.

Table 4.2. Nutrients leached over the 2005 and 2006 rainy seasons under a Colombian savanna Oxisol that received 0 or 20 t ha⁻¹ biochar in 2002. Different letters represent significant differences ($p < 0.05$) between treatments at a single depth, letters not shown when differences not significant. Statistical analyses were not conducted for saturated leaching, since no field replicates were installed. Total nutrients leached were only calculated where both saturated and unsaturated flux measurements were available.

Flux type	Depth M	Biochar t ha ⁻¹	H ₂ O mm	Total amounts leached							
				P	Sr	NH ₄ -N	NO ₃ -N	Ca	Mg	K	
				kg ha ⁻¹							
Saturated (zero tension)	0.15	0	1353	0.26	0.25	0.3	44.9	38.7	15.0	47.7	
		20	992	0.17	0.30	5.0	42.4	35.1	15.3	84.1	
	0.3	0	550	0.14	0.20	4.5	45.3	44.5	17.4	30.2	
		20	466	0.11	0.19	1.7	27.6	32.6	11.0	33.2	
	0.6	0	1449	0.18	0.48	10.3	169.8	86.6	55.7	196.2	
		20	1717	0.17	0.37	10.4	139.4	37.4	31.0	188.2	
Unsaturated (near-sat flux)	1.2	0	124	0.13	0.02	TA	9.2	9.4	3.5	5.1	
		20	24	0.07	TA	TA	2.0	2.2	0.7	1.5	
	0.15	0	2823	0.56	0.30b	9.1b	168.9	61.2b	42.4b	206.9b	
		20	2867	0.50	0.98a	69.1a	266.4	227.7a	130.3a	413.6a	
	0.3	0	2742	0.44a	0.57b	2.7	234.7b	125.4b	84.0	190.1a	
		20	2750	0.38b	0.87a	2.2	330.9a	179.3a	92.0	185.9b	
Total	0.6	0	2593	0.40	0.41b	1.0b	196.0b	84.6b	55.5b	119.5b	
		20	2588	0.36	1.00a	2.4a	399.8a	223.0a	116.7a	131.3a	
	1.2	0	2361	0.34	0.35a	1.0	110.2a	54.6a	33.5a	36.0a	
		20	2346	0.32	0.30b	1.6	108.1b	47.2b	26.1b	24.7b	
	2.0	0	2329	0.35a	0.06b	0.6a	12.7	6.5b	3.1	14.9	
		20	2296	0.26b	0.09a	0.5b	19.8	9.0a	4.3	13.6	
Total	0.15	0	4176	0.82	0.55	9.4	213.8	99.9	57.4	254.6	
		20	3859	0.67	1.28	74.0	308.8	262.8	145.6	497.7	
	0.3	0	3292	0.58	0.77	7.2	280.0	169.9	101.4	220.3	
		20	3216	0.49	1.06	3.9	338.5	211.9	103.0	219.1	
	0.6	0	4042	0.58	0.89	11.2	365.8	171.2	111.2	315.7	
		20	4305	0.53	1.37	12.8	539.2	260.4	147.7	319.5	
Total	1.2	0	2485	0.47	0.37	1.0	119.4	64.0	37.0	41.1	
		20	2370	0.39	0.30	1.6	110.1	49.4	26.8	26.2	

Table 4.2 (Continued)

Flux type	Depth	Biochar	P	Sr	Concentration in soil solution						
					NH ₄ -N	NO ₃ -N	Ca	Mg	K	mg L ⁻¹	
										M	t ha ⁻¹
Saturated (zero tension)	0.15	0	0.02	0.02	0.02	4.67	3.71	1.52	4.07		
		20	0.01	0.04	0.29	6.01	4.64	2.02	9.46		
	0.3	0	0.03	0.05	0.50	13.29	11.28	4.88	5.79		
		20	0.04	0.05	0.15	8.87	8.08	2.87	6.89		
	0.6	0	0.01	0.04	0.48	14.20	7.13	4.73	13.41		
		20	0.01	0.02	0.64	7.81	2.16	1.80	10.84		
	1.2	0	0.15	0.02	0.0003	7.51	7.54	2.64	4.47		
		20	0.29	0.02	0.001	8.41	9.45	3.03	6.25		
	Unsaturated (matrix flux)	0.15	0	0.02	0.01b	0.39	5.59	2.23b	0.68b	7.43b	
			20	0.02	0.03a	1.97	9.05	7.33a	4.22a	13.94a	
		0.3	0	0.02	0.02b	0.08	7.51b	4.13b	2.68	6.69	
			20	0.02	0.03a	0.07	10.30a	5.76a	2.92	6.22	
0.6		0	0.02	0.01b	0.03b	7.17b	3.06b	2.00b	4.62b		
		20	0.02	0.04a	0.09a	14.97a	8.10a	4.19a	5.82a		
1.2		0	0.02	0.02a	0.04	5.09a	2.43a	1.51a	1.86a		
		20	0.02	0.01b	0.07	4.68b	1.99b	1.13b	1.13b		
2.0		0	0.02a	0.003b	0.03a	0.53	0.29	0.13	0.70a		
		20	0.01b	0.004a	0.02b	0.88	0.39	0.19	0.66b		

Table 4.3. Soil solution pH in a Colombian savanna Oxisol. Samples were taken over the 2006 rainy season for unsaturated flux. When present, significant differences between treatments at single depths are represented by different letters.

Flux type	Depth	Biochar	Average	Flux-weighted
	m	t ha ⁻¹	pH	average pH
Unsaturated (matrix flux)	0.15	0	4.32	4.35
		20	4.22	4.27
	0.3	0	4.24	4.22a
		20	4.19	4.16b
	0.6	0	4.17a	4.15
		20	4.03b	4.04
	1.2	0	4.20b	4.19b
		20	4.26a	4.28a
	2.0	0	4.57	4.57b
		20	4.62	4.64a

Nutrient leaching by unsaturated flux over time was generally greater under maize than soybean in 2006, but leaching peaks also occurred after seeding soybean in both years (data not shown). Amounts of nutrients leached increased from 0.15 to 0.3 m in some cases, and then decreased with depth (Table 4.2). In the case of Sr, losses in the unamended control were high in 2006, and this is consistent with the markedly lower yields observed in maize for that year.

Nutrient movement by unsaturated flux within the rooting zone (0-0.6 m) was generally greater when biochar had been applied. However, below the rooting zone at 1.2 m the total flux of Ca was significantly ($p < 0.05$) reduced by 14%, Mg by 22%, K by 31%, NO₃-N by 2% and Sr by 15% (Table 4.2). At 2 m, nutrient fluxes were generally one order of magnitude lower than at 1.2 m, and equal or slightly greater when biochar had been applied as compared to the unamended control. The increase in leaching with biochar at this depth was significant ($p < 0.05$) for NO₃-N, Ca, Sr and

Mg, and leaching losses were greatest for the most mobile nutrients, namely K and NO₃-N. For all major nutrients, the magnitude of leaching was greater in unsaturated than saturated flux.

Soil solution pH was significantly ($p<0.05$) lower with biochar application at 0.6 m, and significantly ($p<0.05$) greater with biochar application at 1.2 m, as compared to the unamended control (Table 4.3).

Total nutrient leaching

Total leaching was reduced by biochar application at 0.3 m for P, NH₄-N, NO₃-N, Ca, and Mg (Table 4.2). At 0.6 m, reductions were seen for all nutrients except NH₄-N. Immediately below the rooting zone at 1.2 m, biochar application reduced total leaching of P by 17%, Sr by 19%, NO₃-N by 8%, Ca by 23%, Mg by 28%, and K by 36%. At 2.0 m, no saturated flux measurements were obtained and therefore total amounts of nutrients leached could not be calculated; however, total amounts leached are likely low as seen from the leaching by unsaturated flux.

When comparing crop uptake data from the same experiment (Ch. 3) with amounts of nutrients leached, it becomes apparent that leaching reductions were most important in improving Ca and to a lesser extent Mg nutrition (Figure 4.4). When leaching reductions are analyzed separately by year, actual amounts of Ca and Mg leached were greater in 2006 than 2005, and in 2006 yields of maize were much lower than in 2005. However, in 2006 is when the greatest beneficial effect of biochar application on yield was observed, and in that year the reduction in Ca leaching with biochar over the control was 299% greater than in 2005.

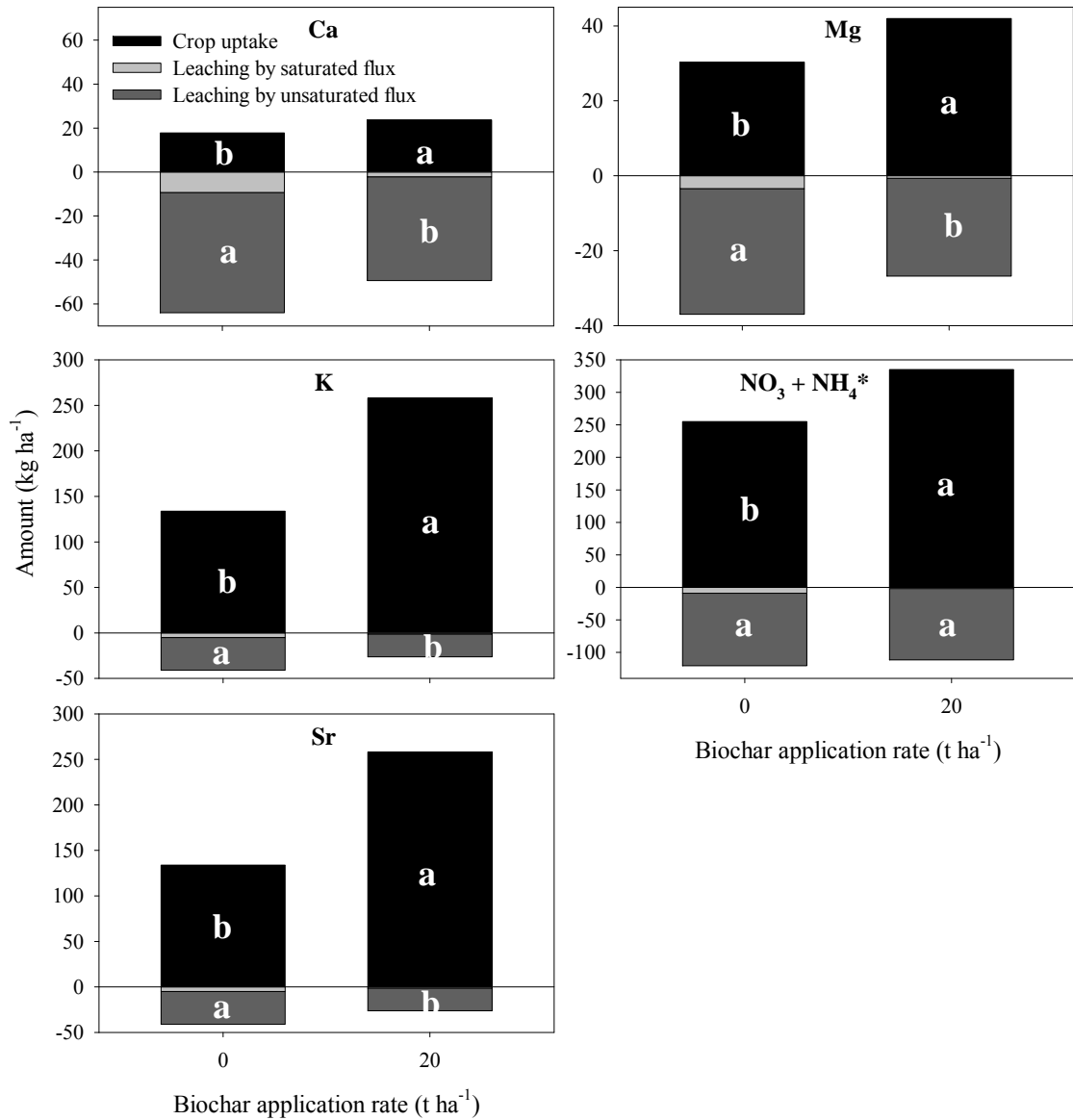


Figure 4.4. Amounts of nutrients taken up by above-ground crop biomass (Ch. 3), and leached by both saturated and unsaturated flux immediately below the rooting zone (at 1.2 m) over 2005 and 2006 in a Colombian savanna Oxisol. Uptake by soybean in 2005 was not included due to severe crop damage in the field and the absence of tissue samples for analysis. Note different scales for y-axes. * For crop uptake total N is shown. Significant differences between treatment means are shown with different letters (statistical analyses not carried out for nutrients leached by saturated flux).

Discussion

Biochar effect on soil physical properties

Surface hydraulic conductivity was not significantly affected by biochar addition, however the trend for greater conductivity when measured using the ring infiltrometer indicates greater macroporosity with biochar addition, presumably resulting from better aggregation. This trend was reversed (although not statistically significant) when surface hydraulic conductivity was measured using the constant head disk infiltrometer, where the applied suction of 20 mm precluded macropore flux. Glaser et al. (2004) found that biochar-rich anthropogenic dark earths (*Terra preta*) soils of the Amazon contained 5-11% more macropores (>50 μm) than did adjacent soils with much lower biochar contents. These soils incurred biochar applications that ceased hundreds of years ago, thus allowing ample time for aggregation processes to occur through surface interactions of biochar with other soil constituents (Glaser et al., 2000; Liang et al. 2006).

In this clay soil, the application of 20 t ha⁻¹ biochar did not produce any significant changes in the soil moisture retention parameters. Tryon (1948) found that a biochar application of 15% by volume to a clay soil reduced soil water retention by 7%. *Terra preta* soils of the Amazon basin originated from well-aggregated clay Oxisols, and were found to have an 18% greater field capacity than their parent soils (Glaser et al. 2004). This was found despite the texture of *Terra preta* usually being lighter than that of parent soil (Teixeira and Martins, 2003). However, *Terra preta* soils were likely also directly affected by fire and heat, which presumably cause alterations which impact hydrological relations beyond biochar enrichment.

Biochar effect on water flux through soil

Saturated water flux was reduced with biochar application at all depths except at 0.6 m, where ponding likely occurred due to the change in soil texture below that depth. This implies that improved macroporosity at the surface did not lead to greater saturated flux below the surface. Lehmann et al. (2003) also observed a reduction in water leached by saturated flux with biochar addition in pot lysimeter studies, and attributed this reduction to greater crop growth in the biochar-amended soil. Total water flux as calculated with HYDRUS, which accounts for root uptake, was reduced below the rooting zone, although differences were very small and not ecologically significant.

Biochar effect on nutrient leaching

Biochar application reduced the leaching of P, Sr, NO₃-N, Ca, Mg and K immediately below the rooting zone. At 1.2 m, total amounts of P, Sr and NH₄-N leached were very small (< 2 kg ha⁻¹) and reductions in Ca and Mg leaching were greatest when compared to the uptake of these nutrients by crops. In Ch. 3 we found that specifically the availability of Ca and Mg in the soil, in this experiment, was also greater with biochar application when compared to the non-amended control. This suggests that retention in biochar-amended soil along with greater uptake by crops receiving biochar may have led to reductions in Ca and Mg leaching. The observed lower leaching and greater uptake of Sr confirms this interpretation.

Lehmann et al. (2003) also found reductions in Ca and Mg leaching when biochar was added to an Oxisol in pot lysimeter studies, although reductions were not statistically significant. The largest effect they observed was a reduction in NH₄-N leaching, which was not the case here below the rooting zone. Major differences between these two experiments are the depth at which leaching was sampled, and the

age of the biochar: in their study Lehmann et al. (2003) monitored leaching immediately after the addition of “fresh” biochar, and it has been demonstrated that over time biochar surfaces become oxidized (Liang et al, 2006; Cheng et al., 2008) and thus are better able to retain positively charged nutrients. In this case leaching was monitored three and four years after the application of biochar to soil, thus allowing time for biochar surfaces to become oxidized and react with other soil constituents.

Biochar application also reduced $\text{NO}_3\text{-N}$ leaching below the rooting zone, and this reduction was considerable when compared to the amounts of N taken up by the crops. Better crop growth presumably enhanced the uptake of negatively-charged $\text{NO}_3\text{-N}$. Lehmann et al. (2002) found that pure, freshly made wood biochar or a mixture of this material and manure did not retain $\text{NO}_3\text{-N}$, using adsorption isotherms. The behavior of $\text{NH}_4\text{-N}$ was intermediary, with more adsorbed on the biochar/manure mixture than on pure biochar. In contrast, here where aged biochar was found in the soil, $\text{NO}_3\text{-N}$ leaching was decreased more than $\text{NH}_4\text{-N}$ leaching with biochar addition, compared to the unamended control. This was likely a result of microbial cycling rather than adsorption. Studies have found greater microbial biomass on biochar-amended soil, while respiration in the laboratory was reduced, indicating greater microbial efficiency (Liang, 2008; Steiner et al., 2008). This could have lead to greater N immobilization, although not to the extent that crop growth was impeded.

Water and nutrients moving by saturated flux were greatest at 0.6 m. The clay content of the soil was observed to increase between 0.6 and 1.2 m, which presumably resulted in reduced hydraulic conductivity and “ponding”. Relatively large amounts of both $\text{NO}_3\text{-N}$ and $\text{NH}_4\text{-N}$ leached by saturated flux at 0.6 m in conjunction with $\text{NO}_3\text{-N}$ accumulation below that depth. Nitrate accumulation in the subsoil of acid tropical soils due to net anion exchange capacity is well documented (Wong et al. 1990).

Conclusions

The application of 20 t biochar ha⁻¹ to a poor, acidic soil of Colombia led to reductions in leaching immediately below the rooting zone of NO₃-N by 8%, Ca by 23%, Mg by 28%, and K by 36% when compared to the unamended control. This occurred without any significant changes in total water fluxes, suggesting that nutrient retention in the rooting zone was responsible for the reduced leaching. Our results show the value of biochar for nutrient management in poor, highly leached soils. Further testing is required to determine its value for leaching control in other types of soil and climate, and for periods greater than 4 years. The effect of biochar on soil hydrological properties must be tested in areas where water availability is a limitation for crop productivity, unlike in the work presented here.

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APPENDIX A

Raw data and extra graphs pertaining to Chapter 2.

Table A1. Calculations for DOC samples. Depth 1 = 15 cm, depth 2=30cm. Trt C=control, trt T= 23.3 t biochar ha⁻¹. “Empty” and “full” flask refers to glass vial where final free-drying was done.

sample							by diff	analyzed material
#	date	rep	trt	depth	empty flask	full flask	tot mat	
3	26-May-05	1	C	1	.	.	.	.
4	26-May-05	2	C	1	11.1089	11.10797	-0.00093	0.00142
	26-May-05	3	C	1	0	0	0	0
1	26-May-05	1	T	1	11.10567	11.10945	0.00378	0.00258
	26-May-05	2	T	1	0	0	0	0
5	26-May-05	3	T	1	11.10608	11.10807	0.00199	0.00127
8	8-Jun-05	1	C	1	10.98774	10.98821	0.00047	0.0022
11	8-Jun-05	2	C	1	.	.	.	.
	8-Jun-05	3	C	1	0	0	0	0
6	8-Jun-05	1	T	1	.	.	.	.
9	8-Jun-05	2	T	1	.	.	.	.
12	8-Jun-05	3	T	1	11.01409	11.01316	-0.00093	0
16	22-Jun-05	1	C	1	10.98619	10.98708	0.00089	0.00075
20	22-Jun-05	2	C	1	10.98585	10.98676	0.00091	0.00047
23	22-Jun-05	3	C	1	11.01218	11.01329	0.00111	0.00047
14	22-Jun-05	1	T	1	11.09119	11.09299	0.0018	0.00344
18	22-Jun-05	2	T	1	11.01251	11.01498	0.00247	0.00191
21	22-Jun-05	3	T	1	.	.	.	.
27	30-Jun-05	1	C	1	.	.	.	.
29	30-Jun-05	2	C	1	.	.	.	.
	30-Jun-05	3	C	1	0	0	0	0
25	30-Jun-05	1	T	1	.	.	.	.
28	30-Jun-05	2	T	1	.	.	.	.
30	30-Jun-05	3	T	1	.	.	.	.
33	11-Jul-05	1	C	1	11.10603	11.11013	0.0041	0.00269
34	11-Jul-05	2	C	1	.	.	.	.
	11-Jul-05	3	C	1	0	0	0	0
32	11-Jul-05	1	T	1	10.98661	10.98791	0.0013	0.00134
	11-Jul-05	2	T	1	0	0	0	0
	11-Jul-05	3	T	1	0	0	0	0
36	17-Jul-05	1	C	1	.	.	.	.
38	17-Jul-05	2	C	1	.	.	.	.
	17-Jul-05	3	C	1	0	0	0	0
35	17-Jul-05	1	T	1	11.01561	11.01652	0.00091	0.00339
37	17-Jul-05	2	T	1	.	.	.	.

39	17-Jul-05	3	T	1	.	.	.	.
sample							by diff	analyzed material
#	date	rep	trt	depth	empty flask	full flask	tot mat	
42	24-Jul-05	1	C	1	.	.	.	.
	24-Jul-05	2	C	1	0	0	0	0
	24-Jul-05	3	C	1	0	0	0	0
41	24-Jul-05	1	T	1	11.03502	11.03711	0.00209	0.00152
43	24-Jul-05	2	T	1	11.05888	11.0627	0.00382	0.0025
44	24-Jul-05	3	T	1	10.98607		-10.98607	0.00529
47	17-Aug-05	1	C	1	11.00663	11.00759	0.00096	0.00063
50	17-Aug-05	2	C	1			0	0.0007
	17-Aug-05	3	C	1	0	0	0	0
45	17-Aug-05	1	T	1	11.10559	11.11176	0.00617	0.00541
48	17-Aug-05	2	T	1	11.12357	11.12569	0.00212	0.00143
51	17-Aug-05	3	T	1	11.08784	11.08911	0.00127	0.0006
54	24-Aug-05	1	C	1	11.1028	11.1044	0.0016	0.00066
	24-Aug-05	2	C	1	0	0	0	0
	24-Aug-05	3	C	1	0	0	0	0
52	24-Aug-05	1	T	1	11.10312	11.10773	0.00461	0.00355
56	24-Aug-05	2	T	1	10.96647	10.96966	0.00319	0.00197
58	24-Aug-05	3	T	1	10.98548	10.9921	0.00662	0.00555
59	20-Sep-05	1	C	1	11.03193	11.0374	0.00547	0.00438
61	20-Sep-05	2	C	1	11.01222	11.01327	0.00105	0.00063
	20-Sep-05	3	C	1	0	0	0	0
	20-Sep-05	1	T	1	0	0	0	0
60	20-Sep-05	2	T	1	11.03473	11.03973	0.005	0.00419
62	20-Sep-05	3	T	1	11.03235	11.03623	0.00388	0.0029
66	28-Sep-05	1	C	1	11.10337	11.10481	0.00144	0.00069
68	28-Sep-05	2	C	1	10.96646	10.46823	-0.49823	0.00122
	28-Sep-05	3	C	1	0	0	0	0
64	28-Sep-05	1	T	1	11.10526	11.10988	0.00462	0.00333
67	28-Sep-05	2	T	1	10.9859	10.98964	0.00374	0.00297
69	28-Sep-05	3	T	1	11.01217	11.01407	0.0019	0.0014
71	4-Oct-05	1	C	1	.	.	.	.
72	4-Oct-05	2	C	1	.	.	.	.
	4-Oct-05	3	C	1	0	0	0	0
	4-Oct-05	1	T	1	0	0	0	0
	4-Oct-05	2	T	1	0	0	0	0
73	4-Oct-05	3	T	1	11.00362	11.00659	0.00297	0.00183
76	25-Oct-05	1	C	1	11.12673	11.12529	-0.00144	0.00094
79	25-Oct-05	2	C	1	11.03156	11.03372	0.00216	0.00113
83	25-Oct-05	3	C	1	11.05545	11.05838	0.00293	0
74	25-Oct-05	1	T	1	11.01032	11.01434	0.00402	0.00265
77	25-Oct-05	2	T	1	11.12399	11.12544	0.00145	0.00126
81	25-Oct-05	3	T	1	11.12374	11.12498	0.00124	0.00072
	1-Nov-05	1	C	1	0	0	0	0

85	1-Nov-05	2	C	1	11.03189	11.0332	0.00131	0.00082
								analyzed
sample							by diff	material
#	date	rep	trt	depth	empty flask	full flask	tot mat	
85	1-Nov-05	3	C	1	0	0	0	0
84	1-Nov-05	1	T	1	11.10598	11.10818	0.0022	0.00137
	1-Nov-05	2	T	1	0	0	0	0
86	1-Nov-05	3	T	1	.	.	.	.
89	28-Mar-06	1	C	1	10.08589	10.08992	0.00403	0.00256
92	28-Mar-06	2	C	1	11.12373	11.12504	0.00131	0.00095
	28-Mar-06	3	C	1	0	0	0	0
88	28-Mar-06	1	T	1	11.12175	11.12639	0.00464	0.00257
90	28-Mar-06	2	T	1	10.96654	10.96753	0.00099	0.00062
94	28-Mar-06	3	T	1	11.03181	11.03571	0.0039	0.00215
252	6-Apr-06	1	C	1	11.08539	11.08812	0.00273	0.00091
251	6-Apr-06	2	C	1	11.08863	11.08971	0.00108	0.00089
	6-Apr-06	3	C	1	0	0	0	0
253	6-Apr-06	1	T	1	11.08543	11.08841	0.00298	0.00178
250	6-Apr-06	2	T	1	10.9889	10.99304	0.00414	0.00332
	6-Apr-06	3	T	1	0	0	0	0
96	20-Apr-06	1	C	1	11.03487	11.03586	0.00099	0.00057
98	20-Apr-06	2	C	1	.	.	.	.
	20-Apr-06	3	C	1	0	0	0	0
95	20-Apr-06	1	T	1	.	.	.	.
97	20-Apr-06	2	T	1	.	.	.	.
99	20-Apr-06	3	T	1	11.00687	11.0097	0.00283	0.0022
102	27-Apr-06	1	C	1	10.98623	10.98658	0.00035	0.00014
105	27-Apr-06	2	C	1	11.09322	11.08885	-0.00437	0.00021
109	27-Apr-06	3	C	1	11.08804	11.08986	0.00182	0.00098
100	27-Apr-06	1	T	1	11.10614	11.08905	-0.01709	0.00159
103	27-Apr-06	2	T	1	11.12346	11.12491	0.00145	0.00093
107	27-Apr-06	3	T	1	11.01252	11.01493	0.00241	0.00144
113	8-May-06	1	C	1	11.00385	11.00453	0.00068	0.00045
116	8-May-06	2	C	1	11.05563	11.05658	0.00095	0.00039
120	8-May-06	3	C	1	10.99115	10.98672	-0.00443	0.00071
111	8-May-06	1	T	1	11.08774	11.09	0.00226	0.00093
114	8-May-06	2	T	1	11.00634	11.00796	0.00162	0.00099
118	8-May-06	3	T	1	10.96967	10.97204	0.00237	0.00177
122	26-May-06	1	C	1	11.01426	11.01192	-0.00234	0.00056
125	26-May-06	2	C	1	11.03181	11.03258	0.00077	0.00049
128	26-May-06	3	C	1	11.00361	11.00454	0.00093	0.00054
121	26-May-06	1	T	1	11.10363	11.10482	0.00119	0.00038
123	26-May-06	2	T	1	11.10373	11.10509	0.00136	0.00097
126	26-May-06	3	T	1	10.96643	10.96911	0.00268	0.00202
131	31-May-06	1	C	1	11.08605	11.08647	0.00042	0.00013
134	31-May-06	2	C	1	11.0555	11.05611	0.00061	0.0004
137	31-May-06	3	C	1	11.01047	11.01107	0.0006	0.00034

129	31-May-06	1	T	1	11.09266	11.09447	0.00181	0.00111
								analyzed
sample							by diff	material
#	date	rep	trt	depth	empty flask	full flask	tot mat	
132	31-May-06	2	T	1	11.0036	11.00465	0.00105	0.00069
135	31-May-06	3	T	1	11.0927	11.09455	0.00185	0.00115
140	5-Jun-06	1	C	1	10.96672	10.9672	0.00048	0.00033
142	5-Jun-06	2	C	1	11.09294	11.09454	0.0016	0.00109
146	5-Jun-06	3	C	1	11.00372	11.0049	0.00118	0.00029
138	5-Jun-06	1	T	1	11.12184	11.12395	0.00211	0.001
141	5-Jun-06	2	T	1	11.00352	11.00497	0.00145	0.00082
144	5-Jun-06	3	T	1	11.03204	11.03373	0.00169	0.00139
149	8-Jun-06	1	C	1	11.05567	11.05676	0.00109	0.00093
152	8-Jun-06	2	C	1	11.05571	11.05675	0.00104	0.00019
156	8-Jun-06	3	C	1	11.03186	11.03237	0.00051	0.00022
147	8-Jun-06	1	T	1	11.12345	11.12347	2E-05	0.00147
150	8-Jun-06	2	T	1	11.10321	11.10388	0.00067	0.00054
154	8-Jun-06	3	T	1	11.01031	11.01144	0.00113	0.00095
158	15-Jun-06	1	C	1	10.96656	10.96741	0.00085	0.00018
160	15-Jun-06	2	C	1	11.10303	11.10448	0.00145	0.00081
162	15-Jun-06	3	C	1	10.96645	10.96687	0.00042	0
157	15-Jun-06	1	T	1	11.03212	11.034	0.00188	0.00049
159	15-Jun-06	2	T	1	11.08576	11.08997	0.00421	0.00205
161	15-Jun-06	3	T	1	10.98543	10.98805	0.00262	0.00187
165	28-Jun-06	1	C	1	11.01255	11.01451	0.00196	0.00063
167	28-Jun-06	2	C	1	11.10686	11.10664	-0.00022	0.00028
	28-Jun-06	3	C	1	0	0	0	0
163	28-Jun-06	1	T	1	11.00357	11.00588	0.00231	0.00131
166	28-Jun-06	2	T	1	11.10632	11.10735	0.00103	0.00092
168	28-Jun-06	3	T	1	11.08861	11.0912	0.00259	0.00219
172	26-Jul-06	1	C	1	11.08845	11.11275	0.0243	0.01897
175	26-Jul-06	2	C	1	11.01005	11.01743	0.00738	0.00549
178	26-Jul-06	3	C	1	10.96643	10.97756	0.01113	0.00927
170	26-Jul-06	1	T	1	11.05881	11.06689	0.00808	0.00657
173	26-Jul-06	2	T	1	11.01296	11.02093	0.00797	0.0059
177	26-Jul-06	3	T	1	11.09275	11.09975	0.007	0.00538
	9-Aug-06	1	C	1	0	0	0	0
179	9-Aug-06	2	C	1	11.05563	11.06591	0.01028	0.00798
	9-Aug-06	3	C	1	0	0	0	0
	9-Aug-06	1	T	1	0	0	0	0
	9-Aug-06	2	T	1	0	0	0	0
180	9-Aug-06	3	T	1	10.4	11.08565	11.09816	0.01044
182	16-Aug-06	1	C	1	11.00638	11.01676	0.01038	0.00852
184	16-Aug-06	2	C	1	11.10306	11.10532	0.00226	0.00201
186	16-Aug-06	3	C	1	11.00352	11.00653	0.00301	0.00213
181	16-Aug-06	1	T	1	11.12442	11.13317	0.00875	0.00731
183	16-Aug-06	2	T	1	11.12392	11.1309	0.00698	0.00578

185	16-Aug-06	3	T	1	10.96626	10.97273	0.00647	0.00534
								analyzed
sample							by diff	material
#	date	rep	trt	depth	empty flask	full flask	tot mat	
188	23-Aug-06	1	C	1	10.98519	10.99097	0.00578	0.00475
190	23-Aug-06	2	C	1	10.96644	10.97004	0.0036	0.00258
192	23-Aug-06	3	C	1	11.00988	11.01189	0.00201	0.00121
187	23-Aug-06	1	T	1	10.98526	10.99485	0.00959	0.00836
189	23-Aug-06	2	T	1	11.00973	11.01434	0.00461	0.00341
191	23-Aug-06	3	T	1	11.09034	11.09685	0.00651	0.00546
194	30-Aug-06	1	C	1	11.01081	11.01758	0.00677	0.00617
196	30-Aug-06	2	C	1	11.10288	11.10556	0.00268	0.002
198	30-Aug-06	3	C	1	11.10276	11.10388	0.00112	0.00065
193	30-Aug-06	1	T	1	11.0034	11.01429	0.01089	0.00928
195	30-Aug-06	2	T	1	11.00347	11.00691	0.00344	0.00214
197	30-Aug-06	3	T	1	11.12091	11.12801	0.0071	0.00564
	20-Sep-06	1	C	1	0	0	0	0
200	20-Sep-06	2	C	1	10.98548	10.988	0.00252	0.00218
202	20-Sep-06	3	C	1	11.00972	11.01494	0.00522	0.00392
199	20-Sep-06	1	T	1	11.01309	11.02468	0.01159	0.01002
	20-Sep-06	2	T	1	0	0	0	0
201	20-Sep-06	3	T	1	10.98527	10.98848	0.00321	0.00246
	27-Sep-06	1	C	1	0	0	0	0
205	27-Sep-06	2	C	1	10.98528	10.98776	0.00248	0.00138
207	27-Sep-06	3	C	1	11.12099	11.12365	0.00266	0.00196
203	27-Sep-06	1	T	1	11.09604	11.10321	0.00717	0.00579
204	27-Sep-06	2	T	1	11.09022	11.09443	0.00421	0.0033
206	27-Sep-06	3	T	1	11.0065	11.01252	0.00602	0.00427
	11-Oct-06	1	C	1	0	0	0	0
209	11-Oct-06	2	C	1	11.0853	11.08662	0.00132	0.00083
210	11-Oct-06	3	C	1	11.08529	11.09067	0.00538	0.00414
208	11-Oct-06	1	T	1	11.12474	11.1324	0.00766	0.00649
	11-Oct-06	2	T	1	0	0	0	0
	11-Oct-06	3	T	1	0	0	0	0
	17-Oct-06	1	C	1	0	0	0	0
212	17-Oct-06	2	C	1	11.00669	11.008	0.00131	0.0008
213	17-Oct-06	3	C	1	11.05551	11.05907	0.00356	0.00274
211	17-Oct-06	1	T	1	11.08835	11.09525	0.0069	0.00564
	17-Oct-06	2	T	1	0	0	0	0
	17-Oct-06	3	T	1	0	0	0	0
216	25-Oct-06	1	C	1	11.12125	11.12337	0.00212	0.00157
219	25-Oct-06	2	C	1	11.05543	11.05691	0.00148	0.00078
223	25-Oct-06	3	C	1	11.12429	11.1278	0.00351	0.00208
214	25-Oct-06	1	T	1	10.96653	10.96965	0.00312	0.00239
217	25-Oct-06	2	T	1	11.09269	11.09519	0.0025	0.00114
221	25-Oct-06	3	T	1	11.09028	11.09287	0.00259	0.00151
227	9-Nov-06	1	C	1	11.05532	11.05768	0.00236	0.0015

230	9-Nov-06	2	C	1	11.05543	11.05668	0.00125	0.00071
								analyzed
sample							by diff	material
#	date	rep	trt	depth	empty flask	full flask	tot mat	
232	9-Nov-06	3	C	1	10.98544	10.98852	0.00308	0.00244
225	9-Nov-06	1	T	1	11.00348	11.0064	0.00292	0.00179
228	9-Nov-06	2	T	1	11.01272	11.01432	0.0016	0.00109
231	9-Nov-06	3	T	1	11.08559	11.08749	0.0019	0.00134
234	16-Nov-06	1	C	1	.	.	.	.
236	16-Nov-06	2	C	1	11.00992	11.01143	0.00151	0.00078
238	16-Nov-06	3	C	1	11.09265	11.09821	0.00556	0.00322
233	16-Nov-06	1	T	1	11.08809	11.09215	0.00406	0.00339
	16-Nov-06	2	T	1	0	0	0	0
237	16-Nov-06	3	T	1	11.00991	11.01328	0.00337	0.00223
241	13-Dec-06	1	C	1	10.96994	10.97132	0.00138	0.00065
244	13-Dec-06	2	C	1	11.05544	11.05706	0.00162	0.00088
248	13-Dec-06	3	C	1	11.08553	11.08668	0.00115	0.00054
239	13-Dec-06	1	T	1	11.05544	11.05836	0.00292	0.00203
242	13-Dec-06	2	T	1	11.12106	11.12248	0.00142	0.0006
246	13-Dec-06	3	T	1	11.05541	11.05814	0.00273	0.00172
2	26-May-05	1	T	2	10.98596	10.98924	0.00328	0.00198
	26-May-05	2	T	2	0	0	0	0
	26-May-05	3	T	2	0	0	0	0
7	8-Jun-05	1	T	2	.	.	.	.
10	8-Jun-05	2	T	2	.	.	.	.
13	8-Jun-05	3	T	2	11.12532	11.1248	-0.00052	0.00043
17	22-Jun-05	1	C	2	.	.	.	.
	22-Jun-05	2	C	2	0	0	0	0
24	22-Jun-05	3	C	2	11.01234	11.01332	0.00098	0.00045
15	22-Jun-05	1	T	2	11.10577	11.10696	0.00119	0.00077
19	22-Jun-05	2	T	2	11.1055	11.10625	0.00075	0.00025
22	22-Jun-05	3	T	2	.	.	.	.
26	30-Jun-05	1	T	2	.	.	.	.
	30-Jun-05	2	T	2	0	0	0	0
31	30-Jun-05	3	T	2	.	.	.	.
	17-Jul-05	1	T	2	0	0	0	0
	17-Jul-05	2	T	2	0	0	0	0
40	17-Jul-05	3	T	2	11.01239		-11.01239	0.00636
46	17-Aug-05	1	T	2	10.98611	10.98743	0.00132	0.00111
49	17-Aug-05	2	T	2	11.09618	11.09808	0.0019	0.00146
	17-Aug-05	3	T	2	0	0	0	0
55	24-Aug-05	1	C	2	11.03167	11.03633	0.00466	0.0032
57	24-Aug-05	2	C	2	11.03175	11.03595	0.0042	0.00198
	24-Aug-05	3	C	2	0	0	0	0
53	24-Aug-05	1	T	2	11.10312	11.10773	0.00461	0.00055
	24-Aug-05	2	T	2	0	0	0	0
	24-Aug-05	3	T	2	0	0	0	0

	20-Sep-05	1	T	2	0	0	0	0
								analyzed
sample							by diff	material
#	date	rep	trt	depth	empty flask	full flask	tot mat	
	20-Sep-05	2	T	2	0	0	0	0
63	20-Sep-05	3	T	2	10.96656	10.97577	0.00921	0.00765
65	28-Sep-05	1	T	2	11.03212	11.03371	0.00159	0.0011
	28-Sep-05	2	T	2	0	0	0	0
70	28-Sep-05	3	T	2	10.9854	10.99194	0.00654	0.00476
	25-Oct-05	1	C	2	0	0	0	0
80	25-Oct-05	2	C	2	11.05874	11.06327	0.00453	0.00328
	25-Oct-05	3	C	2	0	0	0	0
75	25-Oct-05	1	T	2	11.09275	11.09467	0.00192	0.00111
78	25-Oct-05	2	T	2	11.03485	11.04086	0.00601	0.00459
82	25-Oct-05	3	T	2	.	.	.	.
	1-Nov-05	1	T	2	0	0	0	0
	1-Nov-05	2	T	2	0	0	0	0
87	1-Nov-05	3	T	2	.	.	.	.
	28-Mar-06	1	C	2	0	0	0	0
93	28-Mar-06	2	C	2	11.08806	11.08952	0.00146	0.00083
	28-Mar-06	3	C	2	0	0	0	0
	28-Mar-06	1	T	2	0	0	0	0
91	28-Mar-06	2	T	2	10.98669	10.99853	0.01184	0.00928
	28-Mar-06	3	T	2	0	0	0	0
	27-Apr-06	1	C	2	0	0	0	0
106	27-Apr-06	2	C	2	11.05874	11.05998	0.00124	0.00086
110	27-Apr-06	3	C	2	11.12356	11.12713	0.00357	0.00266
101	27-Apr-06	1	T	2	11.08833	11.08905	0.00072	0.00073
104	27-Apr-06	2	T	2	11.10266	11.10389	0.00123	0.00069
108	27-Apr-06	3	T	2	11.12394	11.12546	0.00152	0.00071
	8-May-06	1	C	2	0	0	0	0
117	8-May-06	2	C	2	11.09596	11.09858	0.00262	0.00177
	8-May-06	3	C	2	0	0	0	0
112	8-May-06	1	T	2	11.08781	11.08832	0.00051	0.00021
115	8-May-06	2	T	2	11.09283	11.09371	0.00088	0.0005
119	8-May-06	3	T	2	11.10606	11.10461	-0.00145	0.00081
	26-May-06	1	T	2	0	0	0	0
124	26-May-06	2	T	2	10.98552	10.98643	0.00091	0.0005
127	26-May-06	3	T	2	11.01047	11.01159	0.00112	0.00083
130	31-May-06	1	T	2	11.12183	11.12298	0.00115	0.00067
133	31-May-06	2	T	2	10.98585	10.98653	0.00068	0.00047
136	31-May-06	3	T	2	11.05548	11.0569	0.00142	0.00073
	5-Jun-06	1	C	2	0	0	0	0
143	5-Jun-06	2	C	2	11.08608	11.0883	0.00222	0.0015
	5-Jun-06	3	C	2	0	0	0	0
139	5-Jun-06	1	T	2	11.03207	11.03259	0.00052	0.00036
	5-Jun-06	2	T	2	0	0	0	0

145	5-Jun-06	3	T	2	10.96662	10.96795	0.00133	0.00104
								analyzed
sample							by diff	material
#	date	rep	trt	depth	empty flask	full flask	tot mat	
145	8-Jun-06	1	C	2	0	0	0	0
153	8-Jun-06	2	C	2	10.98603	10.98635	0.00032	0.00067
	8-Jun-06	3	C	2	0	0	0	0
148	8-Jun-06	1	T	2	11.08814	11.08646	-0.00168	0.0002
151	8-Jun-06	2	T	2	11.09267	11.09557	0.0029	0.00196
155	8-Jun-06	3	T	2	11.12195	11.12224	0.00029	0.00052
164	28-Jun-06	1	T	2	11.12467	11.12489	0.00022	0.00038
	28-Jun-06	2	T	2	0	0	0	0
169	28-Jun-06	3	T	2	11.01265	11.01373	0.00108	0.00047
	26-Jul-06	1	C	2	0	0	0	0
176	26-Jul-06	2	C	2	11.12138	11.13621	0.01483	0.01097
	26-Jul-06	3	C	2	0	0	0	0
171	26-Jul-06	1	T	2	11.00666	11.03417	0.02751	0.02209
174	26-Jul-06	2	T	2	11.00407	11.02666	0.02259	0.01699
	26-Jul-06	3	T	2	0	0	0	0
	25-Oct-06	1	C	2	0	0	0	0
	25-Oct-06	2	C	2	0	0	0	0
224	25-Oct-06	3	C	2	11.12107	11.12491	0.00384	0.00233
215	25-Oct-06	1	T	2	11.1061	11.11003	0.00393	0.00294
218	25-Oct-06	2	T	2	11.00353	11.00721	0.00368	0.00266
222	25-Oct-06	3	T	2	10.96637	10.97053	0.00416	0.00256
226	9-Nov-06	1	T	2	.	.	.	.
229	9-Nov-06	2	T	2	11.09264	11.09961	0.00697	0.00519
	9-Nov-06	3	T	2	0	0	0	0
	16-Nov-06	1	T	2	0	0	0	0
235	16-Nov-06	2	T	2	11.00339	11.0066	0.00321	0.00213
	16-Nov-06	3	T	2	0	0	0	0
	13-Dec-06	1	C	2	0	0	0	0
245	13-Dec-06	2	C	2	10.96981	10.97297	0.00316	0.0025
249	13-Dec-06	3	C	2	.	.	.	.
240	13-Dec-06	1	T	2	11.12114	11.12328	0.00214	0.00133
243	13-Dec-06	2	T	2	11.09031	11.09169	0.00138	0.00055
247	13-Dec-06	3	T	2	10.96981	10.97807	0.00826	0.00644

					mat amt	mat amt		
sample					corr	corr		
#	date	rep	trt	depth		fixed	Micro g N	Delta Air
3	26-May-05	1	C	1		1	.	.
4	26-May-05	2	C	1	-0.65493	1	18.8	5.07
	26-May-05	3	C	1	#DIV/0!	1	0.0	.
1	26-May-05	1	T	1	1.4651163	1.4651163	148.8	2.02
	26-May-05	2	T	1	#DIV/0!	1	0.0	.
5	26-May-05	3	T	1	1.5669291	1.5669291	34.8	6.29
8	8-Jun-05	1	C	1	0.2136364	1	73.1	2.48
11	8-Jun-05	2	C	1		1	.	.
	8-Jun-05	3	C	1	#DIV/0!	1	0.0	.
6	8-Jun-05	1	T	1		1	.	.
9	8-Jun-05	2	T	1		1	.	.
12	8-Jun-05	3	T	1	#DIV/0!	1	0.0	.
16	22-Jun-05	1	C	1	1.1866667	1.1866667	20.8	3.61
20	22-Jun-05	2	C	1	1.9361702	1.9361702	2.1	13.25
23	22-Jun-05	3	C	1	2.3617021	2.3617021	18.0	7.10
14	22-Jun-05	1	T	1	0.5232558	1	15.1	5.10
18	22-Jun-05	2	T	1	1.2931937	1.2931937	11.7	6.61
21	22-Jun-05	3	T	1		1	.	.
27	30-Jun-05	1	C	1		1	.	.
29	30-Jun-05	2	C	1		1	.	.
	30-Jun-05	3	C	1	#DIV/0!	1	0.0	.
25	30-Jun-05	1	T	1		1	.	.
28	30-Jun-05	2	T	1		1	.	.
30	30-Jun-05	3	T	1		1	.	.
33	11-Jul-05	1	C	1	1.5241636	1.5241636	43.4	4.60
34	11-Jul-05	2	C	1		1	.	.
	11-Jul-05	3	C	1	#DIV/0!	1	0.0	.
32	11-Jul-05	1	T	1	0.9701493	1	6.0	2.09
	11-Jul-05	2	T	1	#DIV/0!	1	0.0	.
	11-Jul-05	3	T	1	#DIV/0!	1	0.0	.
36	17-Jul-05	1	C	1		1	.	.
38	17-Jul-05	2	C	1		1	.	.
	17-Jul-05	3	C	1	#DIV/0!	1	0.0	.
35	17-Jul-05	1	T	1	0.2684366	1	29.1	1.02
37	17-Jul-05	2	T	1		1	.	.
39	17-Jul-05	3	T	1		1	.	.
42	24-Jul-05	1	C	1		1	.	.
	24-Jul-05	2	C	1	#DIV/0!	1	0.0	.
	24-Jul-05	3	C	1	#DIV/0!	1	0.0	.
41	24-Jul-05	1	T	1	1.375	1.375	3.8	5.55
43	24-Jul-05	2	T	1	1.528	1.528	45.5	1.52
44	24-Jul-05	3	T	1	-2076.762	1	31.6	4.81

					mat amt	mat amt		
sample					corr	corr		
#	date	rep	trt	depth		fixed	Micro g N	Delta Air
47	17-Aug-05	1	C	1	1.5238095	1.5238095	1.9	2.44
50	17-Aug-05	2	C	1	0	1	2.2	2.79
	17-Aug-05	3	C	1	#DIV/0!	1	0.0	.
45	17-Aug-05	1	T	1	1.1404806	1.1404806	16.1	7.66
48	17-Aug-05	2	T	1	1.4825175	1.4825175	5.5	8.41
51	17-Aug-05	3	T	1	2.1166667	2.1166667	2.6	1.07
54	24-Aug-05	1	C	1	2.4242424	2.4242424	1.8	1.32
	24-Aug-05	2	C	1	#DIV/0!	1	0.0	.
	24-Aug-05	3	C	1	#DIV/0!	1	0.0	.
52	24-Aug-05	1	T	1	1.2985915	1.2985915	9.7	5.99
56	24-Aug-05	2	T	1	1.6192893	1.6192893	7.1	5.32
58	24-Aug-05	3	T	1	1.1927928	1.1927928	15.8	4.47
59	20-Sep-05	1	C	1	1.2488584	1.2488584	7.6	3.25
61	20-Sep-05	2	C	1	1.6666667	1.6666667	2.3	-1.56
	20-Sep-05	3	C	1	#DIV/0!	1	0.0	.
	20-Sep-05	1	T	1	#DIV/0!	1	0.0	.
60	20-Sep-05	2	T	1	1.1933174	1.1933174	14.4	3.24
62	20-Sep-05	3	T	1	1.337931	1.337931	7.3	5.29
66	28-Sep-05	1	C	1	2.0869565	2.0869565	2.1	0.83
68	28-Sep-05	2	C	1	-408.3852	1	4.7	5.47
	28-Sep-05	3	C	1	#DIV/0!	1	0.0	.
64	28-Sep-05	1	T	1	1.3873874	1.3873874	17.2	7.21
67	28-Sep-05	2	T	1	1.2592593	1.2592593	11.2	6.85
69	28-Sep-05	3	T	1	1.3571429	1.3571429	6.7	5.74
71	4-Oct-05	1	C	1		1	.	.
72	4-Oct-05	2	C	1		1	.	.
	4-Oct-05	3	C	1	#DIV/0!	1	0.0	.
	4-Oct-05	1	T	1	#DIV/0!	1	0.0	.
	4-Oct-05	2	T	1	#DIV/0!	1	0.0	.
73	4-Oct-05	3	T	1	1.6229508	1.6229508	5.5	4.24
76	25-Oct-05	1	C	1	-1.531915	1	2.1	0.12
79	25-Oct-05	2	C	1	1.9115044	1.9115044	5.8	4.73
83	25-Oct-05	3	C	1	#DIV/0!	1	0.0	.
74	25-Oct-05	1	T	1	1.5169811	1.5169811	12.8	4.70
77	25-Oct-05	2	T	1	1.1507937	1.1507937	4.4	3.47
81	25-Oct-05	3	T	1	1.7222222	1.7222222	1.8	1.53
	1-Nov-05	1	C	1	#DIV/0!	1	0.0	.
85	1-Nov-05	2	C	1	1.597561	1.597561	8.4	0.78
85	1-Nov-05	3	C	1	#DIV/0!	1	0.0	.
84	1-Nov-05	1	T	1	1.6058394	1.6058394	7.1	1.35
	1-Nov-05	2	T	1	#DIV/0!	1	0.0	.
86	1-Nov-05	3	T	1		1	.	.
89	28-Mar-06	1	C	1	1.5742188	1.5742188	168.2	2.19
92	28-Mar-06	2	C	1	1.3789474	1.3789474	13.1	2.17

					mat amt	mat amt		
sample					corr	corr		
#	date	rep	trt	depth		fixed	Micro g N	Delta Air
	28-Mar-06	3	C	1	#DIV/0!	1	0.0	.
88	28-Mar-06	1	T	1	1.8054475	1.8054475	25.2	5.10
90	28-Mar-06	2	T	1	1.5967742	1.5967742	12.0	2.89
94	28-Mar-06	3	T	1	1.8139535	1.8139535	131.3	1.68
252	6-Apr-06	1	C	1	3	3	48.5	4.36
251	6-Apr-06	2	C	1	1.2134831	1.2134831	11.7	1.26
	6-Apr-06	3	C	1	#DIV/0!	1	0.0	.
253	6-Apr-06	1	T	1	1.6741573	1.6741573	17.6	4.79
250	6-Apr-06	2	T	1	1.246988	1.246988	14.3	-0.28
	6-Apr-06	3	T	1	#DIV/0!	1	0.0	.
96	20-Apr-06	1	C	1	1.7368421	1.7368421	28.8	4.48
98	20-Apr-06	2	C	1		1	.	.
	20-Apr-06	3	C	1	#DIV/0!	1	0.0	.
95	20-Apr-06	1	T	1		1	.	.
97	20-Apr-06	2	T	1		1	.	.
99	20-Apr-06	3	T	1	1.2863636	1.2863636	47.8	3.61
102	27-Apr-06	1	C	1	2.5	2.5	5.3	2.09
105	27-Apr-06	2	C	1	-20.80952	1	1.8	0.42
109	27-Apr-06	3	C	1	1.8571429	1.8571429	46.0	4.73
100	27-Apr-06	1	T	1	-10.74843	1	13.5	1.94
103	27-Apr-06	2	T	1	1.5591398	1.5591398	10.2	4.53
107	27-Apr-06	3	T	1	1.6736111	1.6736111	16.3	1.23
113	8-May-06	1	C	1	1.5111111	1.5111111	5.3	1.34
116	8-May-06	2	C	1	2.4358974	2.4358974	2.1	5.06
120	8-May-06	3	C	1	-6.239437	1	3.1	2.87
111	8-May-06	1	T	1	2.4301075	2.4301075	5.9	4.49
114	8-May-06	2	T	1	1.6363636	1.6363636	4.3	1.10
118	8-May-06	3	T	1	1.3389831	1.3389831	10.6	2.07
122	26-May-06	1	C	1	-4.178571	1	2.1	0.91
125	26-May-06	2	C	1	1.5714286	1.5714286	3.1	3.41
128	26-May-06	3	C	1	1.7222222	1.7222222	3.4	2.21
121	26-May-06	1	T	1	3.1315789	3.1315789	2.1	2.16
123	26-May-06	2	T	1	1.4020619	1.4020619	4.6	5.37
126	26-May-06	3	T	1	1.3267327	1.3267327	14.5	5.82
131	31-May-06	1	C	1	3.2307692	3.2307692	1.0	0.61
134	31-May-06	2	C	1	1.525	1.525	2.7	2.65
137	31-May-06	3	C	1	1.7647059	1.7647059	1.8	0.18
129	31-May-06	1	T	1	1.6306306	1.6306306	6.5	3.45
132	31-May-06	2	T	1	1.5217391	1.5217391	3.0	5.39
135	31-May-06	3	T	1	1.6086957	1.6086957	7.7	5.03
140	5-Jun-06	1	C	1	1.4545455	1.4545455	2.0	-0.38
142	5-Jun-06	2	C	1	1.4678899	1.4678899	8.3	3.12
146	5-Jun-06	3	C	1	4.0689655	4.0689655	2.7	1.05
138	5-Jun-06	1	T	1	2.11	2.11	6.6	4.03

					mat amt	mat amt		
sample					corr	corr		
#	date	rep	trt	depth		fixed	Micro g N	Delta Air
141	5-Jun-06	2	T	1	1.7682927	1.7682927	4.1	4.32
144	5-Jun-06	3	T	1	1.2158273	1.2158273	5.4	3.98
149	8-Jun-06	1	C	1	1.172043	1.172043	17.9	0.65
152	8-Jun-06	2	C	1	5.4736842	5.4736842	1.9	2.12
156	8-Jun-06	3	C	1	2.3181818	2.3181818	1.8	1.20
147	8-Jun-06	1	T	1	0.0136054	1	7.1	4.58
150	8-Jun-06	2	T	1	1.2407407	1.2407407	2.9	7.96
154	8-Jun-06	3	T	1	1.1894737	1.1894737	5.7	4.27
158	15-Jun-06	1	C	1	4.7222222	4.7222222	1.3	1.70
160	15-Jun-06	2	C	1	1.7901235	1.7901235	3.4	3.99
162	15-Jun-06	3	C	1	#DIV/0!	1	0.0	.
157	15-Jun-06	1	T	1	3.8367347	3.8367347	2.7	2.18
159	15-Jun-06	2	T	1	2.0536585	2.0536585	65.3	6.51
161	15-Jun-06	3	T	1	1.4010695	1.4010695	9.0	5.08
165	28-Jun-06	1	C	1	3.1111111	3.1111111	2.9	-4.42
167	28-Jun-06	2	C	1	-0.785714	1	1.2	-10.62
	28-Jun-06	3	C	1	#DIV/0!	1	0.0	.
163	28-Jun-06	1	T	1	1.7633588	1.7633588	6.6	3.47
166	28-Jun-06	2	T	1	1.1195652	1.1195652	5.1	0.94
168	28-Jun-06	3	T	1	1.1826484	1.1826484	10.1	1.51
172	26-Jul-06	1	C	1	1.28097	1.28097	219.5	2.35
175	26-Jul-06	2	C	1	1.3442623	1.3442623	261.7	0.96
178	26-Jul-06	3	C	1	1.2006472	1.2006472	169.6	1.76
170	26-Jul-06	1	T	1	1.2298326	1.2298326	60.4	2.84
173	26-Jul-06	2	T	1	1.3508475	1.3508475	117.2	2.38
177	26-Jul-06	3	T	1	1.3011152	1.3011152	82.5	2.68
	9-Aug-06	1	C	1	#DIV/0!	1	0.0	.
179	9-Aug-06	2	C	1	1.2882206	1.2882206	35.5	3.56
	9-Aug-06	3	C	1	#DIV/0!	1	0.0	.
	9-Aug-06	1	T	1	#DIV/0!	1	0.0	.
	9-Aug-06	2	T	1	#DIV/0!	1	0.0	.
180	9-Aug-06	3	T	1	1063.0421	1	34.1	4.44
182	16-Aug-06	1	C	1	1.2183099	1.2183099	43.8	4.26
184	16-Aug-06	2	C	1	1.1243781	1.1243781	5.8	4.43
186	16-Aug-06	3	C	1	1.4131455	1.4131455	6.2	1.66
181	16-Aug-06	1	T	1	1.1969904	1.1969904	25.7	5.25
183	16-Aug-06	2	T	1	1.2076125	1.2076125	21.1	4.57
185	16-Aug-06	3	T	1	1.2116105	1.2116105	16.1	7.42
188	23-Aug-06	1	C	1	1.2168421	1.2168421	8.3	6.47
190	23-Aug-06	2	C	1	1.3953488	1.3953488	6.2	3.09
192	23-Aug-06	3	C	1	1.661157	1.661157	3.3	2.49
187	23-Aug-06	1	T	1	1.1471292	1.1471292	17.1	7.32
189	23-Aug-06	2	T	1	1.3519062	1.3519062	6.1	4.40
191	23-Aug-06	3	T	1	1.1923077	1.1923077	14.5	5.13

					mat amt	mat amt		
sample					corr	corr		
#	date	rep	trt	depth		fixed	Micro g N	Delta Air
194	30-Aug-06	1	C	1	1.0972447	1.0972447	7.1	3.22
196	30-Aug-06	2	C	1	1.34	1.34	5.3	3.76
198	30-Aug-06	3	C	1	1.7230769	1.7230769	2.0	1.42
193	30-Aug-06	1	T	1	1.1734914	1.1734914	23.5	5.69
195	30-Aug-06	2	T	1	1.6074766	1.6074766	6.6	4.34
197	30-Aug-06	3	T	1	1.2588652	1.2588652	15.6	4.07
	20-Sep-06	1	C	1	#DIV/0!	1	0.0	.
200	20-Sep-06	2	C	1	1.1559633	1.1559633	12.1	2.36
202	20-Sep-06	3	C	1	1.3316327	1.3316327	5.1	1.68
199	20-Sep-06	1	T	1	1.1566866	1.1566866	22.8	5.16
	20-Sep-06	2	T	1	#DIV/0!	1	0.0	.
201	20-Sep-06	3	T	1	1.304878	1.304878	4.5	3.73
	27-Sep-06	1	C	1	#DIV/0!	1	0.0	.
205	27-Sep-06	2	C	1	1.7971014	1.7971014	4.9	2.30
207	27-Sep-06	3	C	1	1.3571429	1.3571429	10.4	-0.97
203	27-Sep-06	1	T	1	1.238342	1.238342	14.9	5.63
204	27-Sep-06	2	T	1	1.2757576	1.2757576	10.2	3.53
206	27-Sep-06	3	T	1	1.4098361	1.4098361	12.9	4.00
	11-Oct-06	1	C	1	#DIV/0!	1	0.0	.
209	11-Oct-06	2	C	1	1.5903614	1.5903614	3.2	0.90
210	11-Oct-06	3	C	1	1.2995169	1.2995169	18.3	4.07
208	11-Oct-06	1	T	1	1.1802773	1.1802773	14.5	2.09
	11-Oct-06	2	T	1	#DIV/0!	1	0.0	.
	11-Oct-06	3	T	1	#DIV/0!	1	0.0	.
	17-Oct-06	1	C	1	#DIV/0!	1	0.0	.
212	17-Oct-06	2	C	1	1.6375	1.6375	2.7	-5.87
213	17-Oct-06	3	C	1	1.2992701	1.2992701	14.0	2.24
211	17-Oct-06	1	T	1	1.2234043	1.2234043	21.3	3.03
	17-Oct-06	2	T	1	#DIV/0!	1	0.0	.
	17-Oct-06	3	T	1	#DIV/0!	1	0.0	.
216	25-Oct-06	1	C	1	1.3503185	1.3503185	6.2	2.14
219	25-Oct-06	2	C	1	1.8974359	1.8974359	2.9	2.76
223	25-Oct-06	3	C	1	1.6875	1.6875	42.2	-3.45
214	25-Oct-06	1	T	1	1.3054393	1.3054393	4.1	3.47
217	25-Oct-06	2	T	1	2.1929825	2.1929825	3.9	3.04
221	25-Oct-06	3	T	1	1.7152318	1.7152318	3.8	7.75
227	9-Nov-06	1	C	1	1.5733333	1.5733333	9.1	3.51
230	9-Nov-06	2	C	1	1.7605634	1.7605634	5.4	3.40
232	9-Nov-06	3	C	1	1.2622951	1.2622951	178.6	10.49
225	9-Nov-06	1	T	1	1.6312849	1.6312849	8.6	4.31
228	9-Nov-06	2	T	1	1.4678899	1.4678899	7.4	-2.02
231	9-Nov-06	3	T	1	1.4179104	1.4179104	5.4	4.52
234	16-Nov-06	1	C	1		1	.	.
236	16-Nov-06	2	C	1	1.9358974	1.9358974	3.3	4.34

					mat amt	mat amt		
sample					corr	corr		
#	date	rep	trt	depth		fixed	Micro g N	Delta Air
238	16-Nov-06	3	C	1	1.7267081	1.7267081	27.1	8.95
233	16-Nov-06	1	T	1	1.1976401	1.1976401	10.7	5.60
	16-Nov-06	2	T	1	#DIV/0!	1	0.0	.
237	16-Nov-06	3	T	1	1.5112108	1.5112108	7.9	5.33
241	13-Dec-06	1	C	1	2.1230769	2.1230769	11.6	0.69
244	13-Dec-06	2	C	1	1.8409091	1.8409091	7.6	4.47
248	13-Dec-06	3	C	1	2.1296296	2.1296296	12.2	3.63
239	13-Dec-06	1	T	1	1.4384236	1.4384236	10.3	4.91
242	13-Dec-06	2	T	1	2.3666667	2.3666667	2.6	4.64
246	13-Dec-06	3	T	1	1.5872093	1.5872093	8.7	4.56
2	26-May-05	1	T	2	1.6565657	1.6565657	98.3	3.51
	26-May-05	2	T	2	#DIV/0!	1	0.0	.
	26-May-05	3	T	2	#DIV/0!	1	0.0	.
7	8-Jun-05	1	T	2		1	.	.
10	8-Jun-05	2	T	2		1	.	.
13	8-Jun-05	3	T	2	-1.209302	1	11.8	0.88
17	22-Jun-05	1	C	2		1	.	.
	22-Jun-05	2	C	2	#DIV/0!	1	0.0	.
24	22-Jun-05	3	C	2	2.1777778	2.1777778	18.7	8.07
15	22-Jun-05	1	T	2	1.5454545	1.5454545	14.2	5.07
19	22-Jun-05	2	T	2	3	3	2.2	10.02
22	22-Jun-05	3	T	2		1	.	.
26	30-Jun-05	1	T	2		1	.	.
	30-Jun-05	2	T	2		1	0.0	.
31	30-Jun-05	3	T	2		1	.	.
	17-Jul-05	1	T	2		1	0.0	.
	17-Jul-05	2	T	2		1	0.0	.
40	17-Jul-05	3	T	2	-1731.508	1	132.5	3.18
46	17-Aug-05	1	T	2	1.1891892	1.1891892	3.1	5.20
49	17-Aug-05	2	T	2	1.3013699	1.3013699	3.8	4.76
	17-Aug-05	3	T	2		1	0.0	.
55	24-Aug-05	1	C	2	1.45625	1.45625	6.8	4.50
57	24-Aug-05	2	C	2	2.1212121	2.1212121	9.5	7.36
	24-Aug-05	3	C	2	#DIV/0!	1	0.0	.
53	24-Aug-05	1	T	2	8.3818182	8.3818182	3.0	4.32
	24-Aug-05	2	T	2		1	0.0	.
	24-Aug-05	3	T	2		1	0.0	.
	20-Sep-05	1	T	2		1	0.0	.
	20-Sep-05	2	T	2		1	0.0	.
63	20-Sep-05	3	T	2	1.2039216	1.2039216	15.9	5.81
65	28-Sep-05	1	T	2	1.4454545	1.4454545	3.7	8.56
	28-Sep-05	2	T	2	#DIV/0!	1	0.0	.
70	28-Sep-05	3	T	2	1.3739496	1.3739496	21.3	5.78
	25-Oct-05	1	C	2		1	0.0	.

					mat amt	mat amt		
sample					corr	corr		
#	date	rep	trt	depth		fixed	Micro g N	Delta Air
80	25-Oct-05	2	C	2	1.3810976	1.3810976	8.8	3.06
	25-Oct-05	3	C	2	#DIV/0!	1	0.0	.
75	25-Oct-05	1	T	2	1.7297297	1.7297297	4.9	3.18
78	25-Oct-05	2	T	2	1.3093682	1.3093682	20.9	4.73
82	25-Oct-05	3	T	2		1	.	.
	1-Nov-05	1	T	2		1	0.0	.
	1-Nov-05	2	T	2		1	0.0	.
87	1-Nov-05	3	T	2		1	.	.
	28-Mar-06	1	C	2		1	0.0	.
93	28-Mar-06	2	C	2	1.7590361	1.7590361	16.8	2.10
	28-Mar-06	3	C	2	#DIV/0!	1	0.0	.
	28-Mar-06	1	T	2	#DIV/0!	1	0.0	.
91	28-Mar-06	2	T	2	1.2758621	1.2758621	222.3	4.53
	28-Mar-06	3	T	2		1	0.0	.
	27-Apr-06	1	C	2		1	0.0	.
106	27-Apr-06	2	C	2	1.4418605	1.4418605	30.7	1.66
110	27-Apr-06	3	C	2	1.3421053	1.3421053	46.4	4.79
101	27-Apr-06	1	T	2	0.9863014	1	8.3	4.66
104	27-Apr-06	2	T	2	1.7826087	1.7826087	29.1	3.67
108	27-Apr-06	3	T	2	2.1408451	2.1408451	4.1	2.72
	8-May-06	1	C	2		1	0.0	.
117	8-May-06	2	C	2	1.480226	1.480226	9.8	1.33
	8-May-06	3	C	2	#DIV/0!	1	0.0	.
112	8-May-06	1	T	2	2.4285714	2.4285714	0.6	-6.08
115	8-May-06	2	T	2	1.76	1.76	5.2	3.44
119	8-May-06	3	T	2	-1.790123	1	3.9	4.07
	26-May-06	1	T	2		1	0.0	.
124	26-May-06	2	T	2	1.82	1.82	3.6	3.27
127	26-May-06	3	T	2	1.3493976	1.3493976	4.4	4.79
130	31-May-06	1	T	2	1.7164179	1.7164179	2.7	3.58
133	31-May-06	2	T	2	1.4468085	1.4468085	1.8	2.02
136	31-May-06	3	T	2	1.9452055	1.9452055	3.2	5.56
	5-Jun-06	1	C	2		1	0.0	.
143	5-Jun-06	2	C	2	1.48	1.48	15.0	3.83
	5-Jun-06	3	C	2	#DIV/0!	1	0.0	.
139	5-Jun-06	1	T	2	1.4444444	1.4444444	1.7	4.64
	5-Jun-06	2	T	2	#DIV/0!	1	0.0	.
145	5-Jun-06	3	T	2	1.2788462	1.2788462	4.9	4.20
145	8-Jun-06	1	C	2		1	0.0	.
153	8-Jun-06	2	C	2	0.4776119	1	5.5	3.96
	8-Jun-06	3	C	2	#DIV/0!	1	0.0	.
148	8-Jun-06	1	T	2	-8.4	1	1.3	0.36
151	8-Jun-06	2	T	2	1.4795918	1.4795918	3.0	4.12
155	8-Jun-06	3	T	2	0.5576923	1	3.6	3.62

					mat amt	mat amt		
sample					corr	corr		
#	date	rep	trt	depth		fixed	Micro g N	Delta Air
164	28-Jun-06	1	T	2	0.5789474	1	1.2	-12.91
	28-Jun-06	2	T	2	#DIV/0!	1	0.0	.
169	28-Jun-06	3	T	2	2.2978723	2.2978723	2.1	-7.57
	26-Jul-06	1	C	2		1	0.0	.
176	26-Jul-06	2	C	2	1.3518687	1.3518687	112.0	3.59
	26-Jul-06	3	C	2	#DIV/0!	1	0.0	.
171	26-Jul-06	1	T	2	1.2453599	1.2453599	142.7	3.10
174	26-Jul-06	2	T	2	1.3296057	1.3296057	376.4	1.46
	26-Jul-06	3	T	2		1	0.0	.
	25-Oct-06	1	C	2		1	0.0	.
	25-Oct-06	2	C	2		1	0.0	.
224	25-Oct-06	3	C	2	1.6480687	1.6480687	9.6	4.73
215	25-Oct-06	1	T	2	1.3367347	1.3367347	7.6	-0.93
218	25-Oct-06	2	T	2	1.3834586	1.3834586	6.8	3.98
222	25-Oct-06	3	T	2	1.625	1.625	9.9	5.07
226	9-Nov-06	1	T	2		1	.	.
229	9-Nov-06	2	T	2	1.3429672	1.3429672	10.5	2.49
	9-Nov-06	3	T	2		1	0.0	.
	16-Nov-06	1	T	2		1	0.0	.
235	16-Nov-06	2	T	2	1.5070423	1.5070423	3.8	1.39
	16-Nov-06	3	T	2		1	0.0	.
	13-Dec-06	1	C	2		1	0.0	.
245	13-Dec-06	2	C	2	1.264	1.264	22.2	5.88
249	13-Dec-06	3	C	2		1	.	.
240	13-Dec-06	1	T	2	1.6090226	1.6090226	3.9	3.16
243	13-Dec-06	2	T	2	2.5090909	2.5090909	6.5	3.32
247	13-Dec-06	3	T	2	1.2826087	1.2826087	14.1	5.69

					amt C	CORR amt C			mean
sample					in sample	in sample	sample	control	control
#	date	rep	trt	depth	ug	ug	Delta PDB	delta	delta
3	26-May-05	1	C	1	.	.	.	.
4	26-May-05	2	C	1	125.8	125.8	-14.60	-14.60	
	26-May-05	3	C	1	0.0	0.0	.	.	
1	26-May-05	1	T	1	151.4	221.9	-16.19		
	26-May-05	2	T	1	0.0	0.0	.	.	
5	26-May-05	3	T	1	67.9	106.3	-16.85		
8	8-Jun-05	1	C	1	95.8	95.8	-9.47	-9.47	
11	8-Jun-05	2	C	1	.	.	.	.
	8-Jun-05	3	C	1	0.0	0.0	.	.	
6	8-Jun-05	1	T	1	.	.	.	.
9	8-Jun-05	2	T	1	.	.	.	.
12	8-Jun-05	3	T	1	0.0	0.0	.	.	
16	22-Jun-05	1	C	1	41.1	48.7	-16.19	-16.19	
20	22-Jun-05	2	C	1	36.7	71.1	-18.92	-18.92	
23	22-Jun-05	3	C	1	35.0	82.7	-21.51	-21.51	
14	22-Jun-05	1	T	1	124.5	124.5	-17.16		
18	22-Jun-05	2	T	1	84.5	109.3	-18.28		
21	22-Jun-05	3	T	1	.	.	.	.
27	30-Jun-05	1	C	1	.	.	.	.
29	30-Jun-05	2	C	1	.	.	.	.
	30-Jun-05	3	C	1	0.0	0.0	.	.	
25	30-Jun-05	1	T	1	.	.	.	.
28	30-Jun-05	2	T	1	.	.	.	.
30	30-Jun-05	3	T	1	.	.	.	.
33	11-Jul-05	1	C	1	254.5	388.0	-36.40	-36.40	
34	11-Jul-05	2	C	1	.	.	.	.
	11-Jul-05	3	C	1	0.0	0.0	.	.	
32	11-Jul-05	1	T	1	66.9	66.9	-20.11		
	11-Jul-05	2	T	1	0.0	0.0	.	.	
	11-Jul-05	3	T	1	0.0	0.0	.	.	
36	17-Jul-05	1	C	1	.	.	.	.
38	17-Jul-05	2	C	1	.	.	.	.
	17-Jul-05	3	C	1	0.0	0.0	.	.	
35	17-Jul-05	1	T	1	155.8	155.8	-21.27		
37	17-Jul-05	2	T	1	.	.	.	.
39	17-Jul-05	3	T	1	.	.	.	.
42	24-Jul-05	1	C	1	.	.	.	.
	24-Jul-05	2	C	1	0.0	0.0	.	.	
	24-Jul-05	3	C	1	0.0	0.0	.	.	
41	24-Jul-05	1	T	1	93.3	128.2	-15.10		
43	24-Jul-05	2	T	1	223.2	341.1	-24.58		

					amt C	CORR amt C			mean
sample					in sample	in sample	sample	control	control
#	date	rep	trt	depth	ug	ug	Delta PDB	delta	delta
44	24-Jul-05	3	T	1	381.4	381.4	-11.26		
47	17-Aug-05	1	C	1	40.4	61.6	-12.72	-12.72	
50	17-Aug-05	2	C	1	28.4	28.4	-15.03	-15.03	-13.88
	17-Aug-05	3	C	1	0.0	0.0	.	.	
45	17-Aug-05	1	T	1	267.2	304.8	-14.62		
48	17-Aug-05	2	T	1	89.7	133.0	-18.77		
51	17-Aug-05	3	T	1	46.5	98.5	-19.54		
54	24-Aug-05	1	C	1	21.2	51.3	-19.09	-19.09	
	24-Aug-05	2	C	1	0.0	0.0	.	.	
	24-Aug-05	3	C	1	0.0	0.0	.	.	
52	24-Aug-05	1	T	1	153.5	199.4	-17.04		
56	24-Aug-05	2	T	1	88.3	142.9	-17.35		
58	24-Aug-05	3	T	1	239.0	285.1	-18.84		
59	20-Sep-05	1	C	1	68.0	85.0	-20.68	-20.68	
61	20-Sep-05	2	C	1	47.9	79.8	-17.67	-17.67	-19.17
	20-Sep-05	3	C	1	0.0	0.0	.	.	
	20-Sep-05	1	T	1	0.0	0.0	.	.	
60	20-Sep-05	2	T	1	237.7	283.6	-16.97		
62	20-Sep-05	3	T	1	153.9	206.0	-14.98		
66	28-Sep-05	1	C	1	33.2	69.4	-18.96	-18.96	
68	28-Sep-05	2	C	1	110.8	110.8	-18.76	-18.76	-18.86
	28-Sep-05	3	C	1	0.0	0.0	.	.	
64	28-Sep-05	1	T	1	365.0	506.3	-12.32		
67	28-Sep-05	2	T	1	164.3	206.9	-15.94		
69	28-Sep-05	3	T	1	122.6	166.4	-17.32		
71	4-Oct-05	1	C	1	.	.	.	.
72	4-Oct-05	2	C	1	.	.	.	.
	4-Oct-05	3	C	1	0.0	0.0	.	.	
	4-Oct-05	1	T	1	0.0	0.0	.	.	
	4-Oct-05	2	T	1	0.0	0.0	.	.	
73	4-Oct-05	3	T	1	131.3	213.0	-19.49		
76	25-Oct-05	1	C	1	42.2	42.2	-19.71	-19.71	
79	25-Oct-05	2	C	1	49.0	93.7	-19.67	-19.67	-19.69
83	25-Oct-05	3	C	1	0.0	0.0	.	.	
74	25-Oct-05	1	T	1	139.4	211.5	-15.89		
77	25-Oct-05	2	T	1	56.1	64.5	-19.70		
81	25-Oct-05	3	T	1	39.0	67.2	-19.42		
	1-Nov-05	1	C	1	0.0	0.0	.	.	
85	1-Nov-05	2	C	1	42.2	67.5	-20.24	-20.24	
85	1-Nov-05	3	C	1	0.0	0.0	.	.	
84	1-Nov-05	1	T	1	133.7	214.8	-16.49		
	1-Nov-05	2	T	1	0.0	0.0	.	.	
86	1-Nov-05	3	T	1	.	.	.	.

					amt C	CORR amt C			mean
sample					in sample	in sample	sample	control	control
#	date	rep	trt	depth	ug	ug	Delta PDB	delta	delta
89	28-Mar-06	1	C	1	66.3	104.4	-17.98	-17.98	
92	28-Mar-06	2	C	1	86.6	119.4	-17.06	-17.06	-17.52
92	28-Mar-06	3	C	1	0.0	0.0	.	.	
88	28-Mar-06	1	T	1	319.6	577.1	-16.56		
90	28-Mar-06	2	T	1	60.5	96.6	-22.45		
94	28-Mar-06	3	T	1	146.4	265.5	-16.80		
252	6-Apr-06	1	C	1	38.9	116.6	-18.58	-18.58	
251	6-Apr-06	2	C	1	110.6	134.2	-17.55	-17.55	
	6-Apr-06	3	C	1	0.0	0.0	.	.	
253	6-Apr-06	1	T	1	240.1	402.0	-15.10		
250	6-Apr-06	2	T	1	129.9	162.0	-19.05		
	6-Apr-06	3	T	1	0.0	0.0	.	.	
96	20-Apr-06	1	C	1	25.7	44.6	-18.28	-18.28	
98	20-Apr-06	2	C	1	.	.	.	.
	20-Apr-06	3	C	1	0.0	0.0	.	.	
95	20-Apr-06	1	T	1	.	.	.	.
97	20-Apr-06	2	T	1	.	.	.	.
99	20-Apr-06	3	T	1	335.4	431.5	-15.58		
102	27-Apr-06	1	C	1	9.4	23.6	-19.47	-19.47	
105	27-Apr-06	2	C	1	30.7	30.7	-18.88	-18.88	
109	27-Apr-06	3	C	1	42.0	78.0	-19.67	-19.67	
100	27-Apr-06	1	T	1	309.4	309.4	-16.49		
103	27-Apr-06	2	T	1	86.8	135.3	-16.45		
107	27-Apr-06	3	T	1	250.5	419.3	-14.96		
113	8-May-06	1	C	1	43.1	65.1	-17.54	-17.54	
116	8-May-06	2	C	1	46.9	114.3	-16.63	-16.63	
120	8-May-06	3	C	1	33.7	33.7	-20.44	-20.44	
111	8-May-06	1	T	1	131.0	318.4	-15.64		
114	8-May-06	2	T	1	89.7	146.8	-17.20		
118	8-May-06	3	T	1	219.2	293.5	-15.82		
122	26-May-06	1	C	1	30.3	30.3	-17.04	-17.04	
125	26-May-06	2	C	1	43.9	68.9	-17.58	-17.58	
128	26-May-06	3	C	1	37.7	64.9	-21.11	-21.11	
121	26-May-06	1	T	1	21.2	66.3	-16.57		
123	26-May-06	2	T	1	59.6	83.6	-17.46		
126	26-May-06	3	T	1	195.7	259.6	-15.83		
131	31-May-06	1	C	1	9.4	30.2	-18.47	-18.47	
134	31-May-06	2	C	1	37.4	57.1	-19.05	-19.05	
137	31-May-06	3	C	1	18.1	31.9	-20.39	-20.39	
129	31-May-06	1	T	1	103.1	168.1	-17.30		
132	31-May-06	2	T	1	39.0	59.3	-18.74		
135	31-May-06	3	T	1	115.5	185.8	-16.02		
140	5-Jun-06	1	C	1	23.5	34.2	-18.10	-18.10	

					amt C	CORR amt C			Mean
sample					in sample	in sample	sample	control	control
#	date	rep	trt	depth	ug	ug	Delta PDB	delta	delta
142	5-Jun-06	2	C	1	140.9	206.8	-17.13	-17.13	
146	5-Jun-06	3	C	1	17.9	72.9	-20.91	-20.91	
138	5-Jun-06	1	T	1	106.8	225.4	-16.66		
141	5-Jun-06	2	T	1	49.3	87.2	-16.97		
144	5-Jun-06	3	T	1	82.7	100.5	-17.16		
149	8-Jun-06	1	C	1	246.5	288.9	-22.32	-22.32	
152	8-Jun-06	2	C	1	21.6	118.3	-16.61	-16.61	
156	8-Jun-06	3	C	1	18.6	43.2	-22.48	-22.48	
147	8-Jun-06	1	T	1	102.8	102.8	-17.22		
150	8-Jun-06	2	T	1	28.5	35.3	-18.98		
154	8-Jun-06	3	T	1	64.7	77.0	-17.23		
158	15-Jun-06	1	C	1	11.0	51.8	-19.19	-19.19	
160	15-Jun-06	2	C	1	50.4	90.2	-17.64	-17.64	-18.41
162	15-Jun-06	3	C	1	0.0	0.0	.	.	
157	15-Jun-06	1	T	1	33.4	128.0	-18.19		
159	15-Jun-06	2	T	1	54.0	110.8	-22.12		
161	15-Jun-06	3	T	1	144.8	202.9	-16.33		
165	28-Jun-06	1	C	1	62.7	194.9	-17.70	-17.70	
167	28-Jun-06	2	C	1	35.9	35.9	-18.26	-18.26	-17.98
	28-Jun-06	3	C	1	0.0	0.0	.	.	
163	28-Jun-06	1	T	1	108.2	190.8	-16.81		
166	28-Jun-06	2	T	1	77.0	86.2	-19.72		
168	28-Jun-06	3	T	1	189.9	224.6	-17.13		
172	26-Jul-06	1	C	1	1902.4	2437.0	-12.87	-12.87	
175	26-Jul-06	2	C	1	288.2	387.4	-13.05	-13.05	
178	26-Jul-06	3	C	1	864.4	1037.8	-13.27	-13.27	
170	26-Jul-06	1	T	1	402.8	495.4	-11.78		
173	26-Jul-06	2	T	1	525.8	710.2	-12.94		
177	26-Jul-06	3	T	1	322.6	419.8	-14.51		
	9-Aug-06	1	C	1	0.0	0.0	.	.	
179	9-Aug-06	2	C	1	506.5	652.5	-16.87	-16.87	
	9-Aug-06	3	C	1	0.0	0.0	.	.	
	9-Aug-06	1	T	1	0.0	0.0	.	.	
	9-Aug-06	2	T	1	0.0	0.0	.	.	
180	9-Aug-06	3	T	1	453.2	453.2	-16.23		
182	16-Aug-06	1	C	1	763.5	930.1	-17.89	-17.89	
184	16-Aug-06	2	C	1	97.0	109.1	-16.74	-16.74	
186	16-Aug-06	3	C	1	127.2	179.8	-13.21	-13.21	
181	16-Aug-06	1	T	1	574.1	687.2	-13.97		
183	16-Aug-06	2	T	1	486.8	587.8	-13.28		
185	16-Aug-06	3	T	1	364.5	441.6	-13.89		
188	23-Aug-06	1	C	1	183.3	223.0	-14.78	-14.78	

190	23-Aug-06	2	C	1	99.6	139.0	-16.05	-16.05	
					amt C	CORR amt C			mean
sample					in sample	in sample	sample	control	control
#	date	rep	trt	depth	ug	ug	Delta PDB	delta	delta
192	23-Aug-06	3	C	1	47.9	79.6	-18.40	-18.40	
187	23-Aug-06	1	T	1	258.5	296.5	-15.40		
189	23-Aug-06	2	T	1	119.9	162.1	-12.35		
191	23-Aug-06	3	T	1	204.7	244.1	-16.06		
194	30-Aug-06	1	C	1	141.8	155.6	-15.76	-15.76	
196	30-Aug-06	2	C	1	131.1	175.6	-20.94	-20.94	
198	30-Aug-06	3	C	1	29.1	50.2	-18.45	-18.45	
193	30-Aug-06	1	T	1	343.1	402.6	-14.80		
195	30-Aug-06	2	T	1	91.3	146.7	-19.36		
197	30-Aug-06	3	T	1	277.8	349.8	-16.92		
	20-Sep-06	1	C	1	0.0	0.0	.	.	
200	20-Sep-06	2	C	1	316.9	366.4	-17.07	-17.07	
202	20-Sep-06	3	C	1	89.8	119.6	-17.92	-17.92	-17.49
199	20-Sep-06	1	T	1	427.2	494.2	-15.73		
	20-Sep-06	2	T	1	0.0	0.0	.	.	
201	20-Sep-06	3	T	1	57.2	74.7	-20.85		
	27-Sep-06	1	C	1	0.0	0.0	.	.	
205	27-Sep-06	2	C	1	81.4	146.3	-17.26	-17.26	
207	27-Sep-06	3	C	1	58.9	79.9	-16.90	-16.90	-17.08
203	27-Sep-06	1	T	1	242.9	300.8	-14.39		
204	27-Sep-06	2	T	1	215.9	275.4	-18.22		
206	27-Sep-06	3	T	1	290.5	409.6	-13.11		
	11-Oct-06	1	C	1	0.0	0.0	.	.	
209	11-Oct-06	2	C	1	61.8	98.2	-17.01	-17.01	
210	11-Oct-06	3	C	1	148.3	192.7	-18.25	-18.25	-17.63
208	11-Oct-06	1	T	1	256.1	302.3	-18.31		
	11-Oct-06	2	T	1	0.0	0.0	.	.	
	11-Oct-06	3	T	1	0.0	0.0	.	.	
	17-Oct-06	1	C	1	0.0	0.0	.	.	
212	17-Oct-06	2	C	1	80.4	131.6	-15.91	-15.91	
213	17-Oct-06	3	C	1	161.6	209.9	-17.52	-17.52	-16.71
211	17-Oct-06	1	T	1	221.1	270.5	-19.58		
	17-Oct-06	2	T	1	0.0	0.0	.	.	
	17-Oct-06	3	T	1	0.0	0.0	.	.	
216	25-Oct-06	1	C	1	91.1	123.1	-12.46	-12.46	
219	25-Oct-06	2	C	1	43.1	81.9	-17.92	-17.92	
223	25-Oct-06	3	C	1	94.9	160.2	-16.74	-16.74	
214	25-Oct-06	1	T	1	81.4	106.3	-16.28		
217	25-Oct-06	2	T	1	56.5	123.8	-17.15		
221	25-Oct-06	3	T	1	64.3	110.3	-15.81		
227	9-Nov-06	1	C	1	85.2	134.1	-15.65	-15.65	
230	9-Nov-06	2	C	1	58.8	103.4	-16.51	-16.51	

232	9-Nov-06	3	C	1	56.0	70.7	-21.46	-21.46	
					amt C	CORR amt C			mean
sample					in sample	in sample	sample	control	control
#	date	rep	trt	depth	ug	ug	Delta PDB	delta	delta
225	9-Nov-06	1	T	1	88.5	144.3	-16.66		
228	9-Nov-06	2	T	1	98.3	144.3	-20.43		
231	9-Nov-06	3	T	1	73.6	104.3	-18.21		
234	16-Nov-06	1	C	1	.	.	.	.	.
236	16-Nov-06	2	C	1	45.6	88.4	-15.17	-15.17	
238	16-Nov-06	3	C	1	68.4	118.1	-14.85	-14.85	-15.01
233	16-Nov-06	1	T	1	166.9	199.8	-15.24		
	16-Nov-06	2	T	1	0.0	0.0	.	.	.
237	16-Nov-06	3	T	1	115.0	173.8	-18.36		
241	13-Dec-06	1	C	1	70.1	148.8	-20.55	-20.55	
244	13-Dec-06	2	C	1	61.0	112.3	-16.53	-16.53	
248	13-Dec-06	3	C	1	19.0	40.6	-18.54	-18.54	
239	13-Dec-06	1	T	1	106.9	153.7	-15.10		
242	13-Dec-06	2	T	1	19.1	45.2	-18.20		
246	13-Dec-06	3	T	1	107.2	170.1	-17.55		
2	26-May-05	1	T	2	187.5	310.6	-20.33		
	26-May-05	2	T	2	0.0	0.0	.	.	.
	26-May-05	3	T	2	0.0	0.0	.	.	.
7	8-Jun-05	1	T	2	.	.	.	.	.
10	8-Jun-05	2	T	2	.	.	.	.	.
13	8-Jun-05	3	T	2	39.5	39.5	-19.26		
17	22-Jun-05	1	C	2	.	.	.	.	.
	22-Jun-05	2	C	2	0.0	0.0	.	.	.
24	22-Jun-05	3	C	2	36.7	79.9	-14.66	-14.66	
15	22-Jun-05	1	T	2	52.1	80.5	-18.45		
19	22-Jun-05	2	T	2	23.8	71.5	-20.15		
22	22-Jun-05	3	T	2	.	.	.	.	.
26	30-Jun-05	1	T	2	.	.	.	.	.
	30-Jun-05	2	T	2	0.0	0.0	.	.	.
31	30-Jun-05	3	T	2	.	.	.	.	.
	17-Jul-05	1	T	2	0.0	0.0	.	.	.
	17-Jul-05	2	T	2	0.0	0.0	.	.	.
40	17-Jul-05	3	T	2	973.3	973.3	-32.20		
46	17-Aug-05	1	T	2	55.9	66.5	-14.86		
49	17-Aug-05	2	T	2	79.4	103.4	-12.81		
	17-Aug-05	3	T	2	0.0	0.0	.	.	.
55	24-Aug-05	1	C	2	174.2	253.6	-30.09	-30.09	
57	24-Aug-05	2	C	2	302.5	641.7	-33.80	-33.80	-31.95
	24-Aug-05	3	C	2	0.0	0.0	.	.	.
53	24-Aug-05	1	T	2	34.8	291.6	-18.27		
	24-Aug-05	2	T	2	0.0	0.0	.	.	.
	24-Aug-05	3	T	2	0.0	0.0	.	.	.

	20-Sep-05	1	T	2	0.0	0.0	.	.	
					amt C	CORR amt C			mean
sample					in sample	in sample	sample	control	control
#	date	rep	trt	depth	ug	ug	Delta PDB	delta	delta
	20-Sep-05	2	T	2	0.0	0.0	.	.	
63	20-Sep-05	3	T	2	586.3	705.9	-27.63		
65	28-Sep-05	1	T	2	62.0	89.6	-16.75		
	28-Sep-05	2	T	2	0.0	0.0	.	.	
70	28-Sep-05	3	T	2	548.1	753.1	-16.30		
	25-Oct-05	1	C	2	0.0	0.0	.	.	
80	25-Oct-05	2	C	2	77.8	107.5	-19.69	-19.69	
	25-Oct-05	3	C	2	0.0	0.0	.	.	
75	25-Oct-05	1	T	2	44.6	77.1	-16.67		
78	25-Oct-05	2	T	2	138.5	181.4	-21.82		
82	25-Oct-05	3	T	2	.	.	.	.
	1-Nov-05	1	T	2	0.0	0.0	.	.	
	1-Nov-05	2	T	2	0.0	0.0	.	.	
87	1-Nov-05	3	T	2	.	.	.	.
	28-Mar-06	1	C	2	0.0	0.0	.	.	
93	28-Mar-06	2	C	2	41.5	73.0	-28.72	-28.72	
	28-Mar-06	3	C	2	0.0	0.0	.	.	
	28-Mar-06	1	T	2	0.0	0.0	.	.	
91	28-Mar-06	2	T	2	833.1	1062.9	-33.97		
	28-Mar-06	3	T	2	0.0	0.0	.	.	
	27-Apr-06	1	C	2	0.0	0.0	.	.	
106	27-Apr-06	2	C	2	52.0	75.0	-21.30	-21.30	
110	27-Apr-06	3	C	2	288.8	387.6	-28.60	-28.60	-24.95
101	27-Apr-06	1	T	2	91.2	91.2	-17.14		
104	27-Apr-06	2	T	2	24.0	42.7	-18.64		
108	27-Apr-06	3	T	2	79.6	170.4	-17.94		
	8-May-06	1	C	2	0.0	0.0	.	.	
117	8-May-06	2	C	2	84.9	125.7	-19.35	-19.35	
	8-May-06	3	C	2	0.0	0.0	.	.	
112	8-May-06	1	T	2	14.4	35.1	-18.10		
115	8-May-06	2	T	2	31.1	54.7	-21.68		
119	8-May-06	3	T	2	55.6	55.6	-19.32		
	26-May-06	1	T	2	0.0	0.0	.	.	
124	26-May-06	2	T	2	12.8	23.3	-23.57		
127	26-May-06	3	T	2	52.1	70.3	-18.40		
130	31-May-06	1	T	2	29.6	50.8	-20.65		
133	31-May-06	2	T	2	11.1	16.1	-20.75		
136	31-May-06	3	T	2	42.2	82.1	-17.72		
	5-Jun-06	1	C	2	0.0	0.0	.	.	
143	5-Jun-06	2	C	2	206.0	304.8	-17.77	-17.77	
	5-Jun-06	3	C	2	0.0	0.0	.	.	
139	5-Jun-06	1	T	2	16.0	23.2	-17.23		

	5-Jun-06	2	T	2	0.0	0.0	.	.	
					amt C	CORR amt C			mean
sample					in sample	in sample	sample	control	control
#	date	rep	trt	depth	ug	ug	Delta PDB	delta	delta
145	5-Jun-06	3	T	2	60.0	76.8	-17.48		
145	8-Jun-06	1	C	2	0.0	0.0	.	.	
153	8-Jun-06	2	C	2	49.1	49.1	-19.42	-19.42	
	8-Jun-06	3	C	2	0.0	0.0	.	.	
148	8-Jun-06	1	T	2	13.4	13.4	-19.35		
151	8-Jun-06	2	T	2	34.5	51.1	-21.18		
155	8-Jun-06	3	T	2	37.2	37.2	-18.06		
164	28-Jun-06	1	T	2	38.4	38.4	-20.61		
	28-Jun-06	2	T	2	0.0	0.0	.	.	
169	28-Jun-06	3	T	2	49.8	114.3	-19.28		
	26-Jul-06	1	C	2	0.0	0.0	.	.	
176	26-Jul-06	2	C	2	1089.1	1472.4	-14.04	-14.04	
	26-Jul-06	3	C	2	0.0	0.0	.	.	
171	26-Jul-06	1	T	2	2242.6	2792.9	-14.08		
174	26-Jul-06	2	T	2	1694.1	2252.4	-24.77		
	26-Jul-06	3	T	2	0.0	0.0	.	.	
	25-Oct-06	1	C	2	0.0	0.0	.	.	
	25-Oct-06	2	C	2	0.0	0.0	.	.	
224	25-Oct-06	3	C	2	203.4	335.2	-13.01	-13.01	
215	25-Oct-06	1	T	2	255.4	341.3	-12.45		
218	25-Oct-06	2	T	2	128.7	178.1	-7.82		
222	25-Oct-06	3	T	2	234.8	381.6	-13.92		
226	9-Nov-06	1	T	2	.	.	.	.
229	9-Nov-06	2	T	2	65.7	88.2	-21.00		
	9-Nov-06	3	T	2	0.0	0.0	.	.	
	16-Nov-06	1	T	2	0.0	0.0	.	.	
235	16-Nov-06	2	T	2	37.3	56.2	-21.41		
	16-Nov-06	3	T	2	0.0	0.0	.	.	
	13-Dec-06	1	C	2	0.0	0.0	.	.	
245	13-Dec-06	2	C	2	304.3	384.7	-14.56	-14.56	
249	13-Dec-06	3	C	2	.	.	.	.
240	13-Dec-06	1	T	2	70.9	114.1	-21.10		
243	13-Dec-06	2	T	2	21.7	54.5	-21.36		
247	13-Dec-06	3	T	2	262.1	336.2	-19.27		

					in sample	in sample	in sample	prop	total C
sample					C from soil	C from soil	C from char	from char	from char
#	date	rep	trt	depth	ug	FIXED ug	ug		g/ha
3	26-May-05	1	C	1	.	.	.	.	.
4	26-May-05	2	C	1		125.76	0.00	0.00	0.00
	26-May-05	3	C	1	0.00	0.00	0.00	0.00	0.00
1	26-May-05	1	T	1	196.990655	196.990655	24.90	0.11	157.51
	26-May-05	2	T	1	0.00	0.00	0.00	0.00	0.00
5	26-May-05	3	T	1	89.4675378	89.4675378	16.86	0.16	99.03
8	8-Jun-05	1	C	1		95.80	0.00	0.00	0.00
11	8-Jun-05	2	C	1	.	.	.	.	.
	8-Jun-05	3	C	1	0.00	0.00	0.00	0.00	0.00
6	8-Jun-05	1	T	1	.	.	.	.	.
9	8-Jun-05	2	T	1	.	.	.	.	.
12	8-Jun-05	3	T	1	0.00	0.00	0.00	0.00	0.00
16	22-Jun-05	1	C	1		48.74	0.00	0.00	0.00
20	22-Jun-05	2	C	1		71.10	0.00	0.00	0.00
23	22-Jun-05	3	C	1		82.71	0.00	0.00	0.00
14	22-Jun-05	1	T	1	114.955123	114.955123	9.56	0.08	123.40
18	22-Jun-05	2	T	1	116.253473	109.266395	0.00	0.00	0.00
21	22-Jun-05	3	T	1	.	.	.	.	.
27	30-Jun-05	1	C	1	.	.	.	.	.
29	30-Jun-05	2	C	1	.	.	.	.	.
	30-Jun-05	3	C	1	0.00	0.00	0.00	0.00	0.00
25	30-Jun-05	1	T	1	.	.	.	.	.
28	30-Jun-05	2	T	1	.	.	.	.	.
30	30-Jun-05	3	T	1	.	.	.	.	.
33	11-Jul-05	1	C	1		387.96	0.00	0.00	0.00
34	11-Jul-05	2	C	1	.	.	.	.	.
	11-Jul-05	3	C	1	0.00	0.00	0.00	0.00	0.00
32	11-Jul-05	1	T	1	-76.5935	0	66.86	1.00	58.22
	11-Jul-05	2	T	1	0.00	0.00	0.00	0.00	0.00
	11-Jul-05	3	T	1	0.00	0.00	0.00	0.00	0.00
36	17-Jul-05	1	C	1	.	.	.	.	.
38	17-Jul-05	2	C	1	.	.	.	.	.
	17-Jul-05	3	C	1	0.00	0.00	0.00	0.00	0.00
35	17-Jul-05	1	T	1	-154.8645	0.00	155.84	1.00	79.26
37	17-Jul-05	2	T	1	.	.	.	.	.
39	17-Jul-05	3	T	1	.	.	.	.	.
42	24-Jul-05	1	C	1	.	.	.	.	.
	24-Jul-05	2	C	1	0.00	0.00	0.00	0.00	0.00
	24-Jul-05	3	C	1	0.00	0.00	0.00	0.00	0.00
41	24-Jul-05	1	T	1	-231.626	0.00	128.24	1.00	187.27
43	24-Jul-05	2	T	1	-190.17657	0.00	341.09	1.00	277.87

					in sample	in sample	in sample	prop	total C
sample					C from soil	C from soil	C from char	from char	from char
#	date	rep	trt	depth	ug	FIXED ug	ug		g/ha
44	24-Jul-05	3	T	1	-881.81687	0.00	381.45	1.00	1768.79
47	17-Aug-05	1	C	1		61.63	0.00	0.00	0.00
50	17-Aug-05	2	C	1		28.35	0.00	0.00	0.00
	17-Aug-05	3	C	1	0.00	0.00	0.00	0.00	0.00
45	17-Aug-05	1	T	1	268.90245	268.90245	35.89	0.12	160.53
48	17-Aug-05	2	T	1	96.9029243	96.9029243	36.05	0.27	722.10
51	17-Aug-05	3	T	1	61.173336	61.173336	37.33	0.38	812.34
54	24-Aug-05	1	C	1		51.35	0.00	0.00	0.00
	24-Aug-05	2	C	1	0.00	0.00	0.00	0.00	0.00
	24-Aug-05	3	C	1	0.00	0.00	0.00	0.00	0.00
52	24-Aug-05	1	T	1	241.45598	199.372143	0.00	0.00	0.00
56	24-Aug-05	2	T	1	168.616381	142.91208	0.00	0.00	0.00
58	24-Aug-05	3	T	1	292.428179	285.083084	0.00	0.00	0.00
59	20-Sep-05	1	C	1		84.98	0.00	0.00	.
61	20-Sep-05	2	C	1		79.81	0.00	0.00	0.00
	20-Sep-05	3	C	1	0.00	0.00	0.00	0.00	0.00
	20-Sep-05	1	T	1	0.00	0.00	0.00	0.00	0.00
60	20-Sep-05	2	T	1	301.438489	283.608847	0.00	0.00	0.00
62	20-Sep-05	3	T	1	295.693753	205.957104	0.00	0.00	0.00
66	28-Sep-05	1	C	1		69.37	0.00	0.00	0.00
68	28-Sep-05	2	C	1		110.75	0.00	0.00	0.00
	28-Sep-05	3	C	1	0.00	0.00	0.00	0.00	0.00
64	28-Sep-05	1	T	1	847.495165	506.328187	0.00	0.00	0.00
67	28-Sep-05	2	T	1	210.510634	206.908472	0.00	0.00	0.00
69	28-Sep-05	3	T	1	192.208445	166.424181	0.00	0.00	0.00
71	4-Oct-05	1	C	1	.	.	.	.	.
72	4-Oct-05	2	C	1	.	.	.	.	.
	4-Oct-05	3	C	1	0.00	0.00	0.00	0.00	0.00
	4-Oct-05	1	T	1	0.00	0.00	0.00	0.00	0.00
	4-Oct-05	2	T	1	0.00	0.00	0.00	0.00	0.00
73	4-Oct-05	3	T	1	199.589165	199.589165	13.43	0.06	37.66
76	25-Oct-05	1	C	1		42.24	0.00	0.00	0.00
79	25-Oct-05	2	C	1		93.71	0.00	0.00	0.00
83	25-Oct-05	3	C	1	0.00	0.00	0.00	0.00	0.00
74	25-Oct-05	1	T	1	300.304129	211.459405	0.00	0.00	0.00
77	25-Oct-05	2	T	1	64.3219092	64.3219092	0.18	0.00	0.95
81	25-Oct-05	3	T	1	69.2377144	67.2111524	0.00	0.00	.
	1-Nov-05	1	C	1	0.00	0.00	0.00	0.00	0.00
85	1-Nov-05	2	C	1		67.49	0.00	0.00	0.00
85	1-Nov-05	3	C	1					0.00
84	1-Nov-05	1	T	1	308.782188	214.760803	0.00	0.00	0.00
	1-Nov-05	2	T	1	0.00	0.00	0.00	0.00	0.00

					in sample	in sample	in sample	prop	total C
sample					C from soil	C from soil	C from char	from char	from char
#	date	rep	trt	depth	ug	FIXED ug	ug		g/ha
86	1-Nov-05	3	T	1	.	.	.	.	.
89	28-Mar-06	1	C	1		104.39	0.00	0.00	0.00
92	28-Mar-06	2	C	1		119.40	0.00	0.00	0.00
92	28-Mar-06	3	C	1	0.00	0.00	0.00	0.00	0.00
88	28-Mar-06	1	T	1	652.768777	577.091352	0.00	0.00	0.00
90	28-Mar-06	2	T	1	52.2921369	52.2921369	44.26	0.46	600.55
94	28-Mar-06	3	T	1	282.521494	265.527087	0.00	0.00	0.00
252	6-Apr-06	1	C	1		116.61	0.00	0.00	.
251	6-Apr-06	2	C	1		134.19	0.00	0.00	.
	6-Apr-06	3	C	1	0.00	0.00	0.00	0.00	0.00
253	6-Apr-06	1	T	1	538.453063	402.008872	0.00	0.00	.
250	6-Apr-06	2	T	1	140.43347	140.43347	21.53	0.13	.
	6-Apr-06	3	T	1	0.00	0.00	0.00	0.00	0.00
96	20-Apr-06	1	C	1		44.61	0.00	0.00	0.00
98	20-Apr-06	2	C	1	.	.	.	.	.
	20-Apr-06	3	C	1	0.00	0.00	0.00	0.00	0.00
95	20-Apr-06	1	T	1	.	.	.	.	.
97	20-Apr-06	2	T	1	.	.	.	.	.
99	20-Apr-06	3	T	1	541.956792	431.469937	0.00	0.00	0.00
102	27-Apr-06	1	C	1		23.61	0.00	0.00	0.00
105	27-Apr-06	2	C	1		30.68	0.00	0.00	0.00
109	27-Apr-06	3	C	1		77.98	0.00	0.00	0.00
100	27-Apr-06	1	T	1	408.377296	309.41835	0.00	0.00	0.00
103	27-Apr-06	2	T	1	168.285464	135.287	0.00	0.00	0.00
107	27-Apr-06	3	T	1	635.671692	419.297883	0.00	0.00	0.00
113	8-May-06	1	C	1		65.10	0.00	0.00	0.00
116	8-May-06	2	C	1		114.28	0.00	0.00	0.00
120	8-May-06	3	C	1		33.73	0.00	0.00	0.00
111	8-May-06	1	T	1	372.174225	318.435431	0.00	0.00	0.00
114	8-May-06	2	T	1	139.93735	139.93735	6.88	0.05	74.99
118	8-May-06	3	T	1	455.780192	293.513528	0.00	0.00	0.00
122	26-May-06	1	C	1		30.26	0.00	0.00	0.00
125	26-May-06	2	C	1		68.93	0.00	0.00	0.00
128	26-May-06	3	C	1		64.88	0.00	0.00	0.00
121	26-May-06	1	T	1	68.9895391	66.3499951	0.00	0.00	0.00
123	26-May-06	2	T	1	84.4708966	83.5596454	0.00	0.00	0.00
126	26-May-06	3	T	1	437.732006	259.645066	0.00	0.00	0.00
131	31-May-06	1	C	1		30.25	0.00	0.00	0.00
134	31-May-06	2	C	1		57.11	0.00	0.00	0.00
137	31-May-06	3	C	1		31.91	0.00	0.00	0.00
129	31-May-06	1	T	1	187.130086	168.08097	0.00	0.00	0.00
132	31-May-06	2	T	1	61.1834283	59.3362957	0.00	0.00	0.00
135	31-May-06	3	T	1	282.460468	185.837993	0.00	0.00	0.00

					in sample	in sample	in sample	prop	total C
sample					C from soil	C from soil	C from char	from char	from char
#	date	rep	trt	depth	ug	FIXED ug	ug		g/ha
140	5-Jun-06	1	C	1		34.15	0.00	0.00	0.00
142	5-Jun-06	2	C	1		206.83	0.00	0.00	0.00
146	5-Jun-06	3	C	1		72.88	0.00	0.00	0.00
138	5-Jun-06	1	T	1	255.783827	225.426402	0.00	0.00	0.00
141	5-Jun-06	2	T	1	88.416162	87.1977531	0.00	0.00	0.00
144	5-Jun-06	3	T	1	148.145359	100.514842	0.00	0.00	0.00
149	8-Jun-06	1	C	1		288.89	0.00	0.00	0.00
152	8-Jun-06	2	C	1		118.32	0.00	0.00	0.00
156	8-Jun-06	3	C	1		43.18	0.00	0.00	0.00
147	8-Jun-06	1	T	1	183.657143	102.84903	0.00	0.00	0.00
150	8-Jun-06	2	T	1	28.4284537	28.4284537	6.87	0.19	12.09
154	8-Jun-06	3	T	1	140.81058	76.9695611	0.00	0.00	0.00
158	15-Jun-06	1	C	1		51.79	0.00	0.00	0.00
160	15-Jun-06	2	C	1		90.23	0.00	0.00	0.00
162	15-Jun-06	3	C	1	0.00	0.00	0.00	0.00	0.00
157	15-Jun-06	1	T	1	141.307244	127.992485	0.00	0.00	0.00
159	15-Jun-06	2	T	1	66.341821	66.341821	44.47	0.40	13.10
161	15-Jun-06	3	T	1	243.575232	202.918308	0.00	0.00	0.00
165	28-Jun-06	1	C	1		194.94	0.00	0.00	0.00
167	28-Jun-06	2	C	1		35.87	0.00	0.00	0.00
	28-Jun-06	3	C	1	0.00	0.00	0.00	0.00	0.00
163	28-Jun-06	1	T	1	205.986997	190.80318	0.00	0.00	0.00
166	28-Jun-06	2	T	1	74.2369462	74.2369462	11.95	0.14	20.93
168	28-Jun-06	3	T	1	242.149307	224.59137	0.00	0.00	0.00
172	26-Jul-06	1	C	1		2436.97	0.00	0.00	0.00
175	26-Jul-06	2	C	1		387.42	0.00	0.00	0.00
178	26-Jul-06	3	C	1		1037.80	0.00	0.00	0.00
170	26-Jul-06	1	T	1	529.264761	495.366051	0.00	0.00	0.00
173	26-Jul-06	2	T	1	715.265043	710.2419	0.00	0.00	0.00
177	26-Jul-06	3	T	1	208.382495	208.382495	211.40	0.50	2545.25
	9-Aug-06	1	C	1	0.00	0.00	0.00	0.00	0.00
179	9-Aug-06	2	C	1		652.45	0.00	0.00	0.00
	9-Aug-06	3	C	1	0.00	0.00	0.00	0.00	0.00
	9-Aug-06	1	T	1	0.00	0.00	0.00	0.00	0.00
	9-Aug-06	2	T	1	0.00	0.00	0.00	0.00	0.00
180	9-Aug-06	3	T	1	477.442026	453.169846	0.00	0.00	0.00
182	16-Aug-06	1	C	1		930.13	0.00	0.00	0.00
184	16-Aug-06	2	C	1		109.07	0.00	0.00	0.00
186	16-Aug-06	3	C	1		179.79	0.00	0.00	0.00
181	16-Aug-06	1	T	1	933.986018	687.235575	0.00	0.00	0.00
183	16-Aug-06	2	T	1	756.492235	587.813625	0.00	0.00	0.00
185	16-Aug-06	3	T	1	228.788097	228.788097	212.85	0.48	526.60

					in sample	in sample	in sample	prop	total C
sample					C from soil	C from soil	C from char	from char	from char
#	date	rep	trt	depth	ug	FIXED ug	ug		g/ha
188	23-Aug-06	1	C	1		223.03	0.00	0.00	0.00
190	23-Aug-06	2	C	1		139.04	0.00	0.00	0.00
192	23-Aug-06	3	C	1		79.61	0.00	0.00	0.00
187	23-Aug-06	1	T	1	283.516552	283.516552	12.97	0.04	23.13
189	23-Aug-06	2	T	1	209.078597	162.106327	0.00	0.00	0.00
191	23-Aug-06	3	T	1	108.015362	108.015362	136.05	0.56	229.10
194	30-Aug-06	1	C	1		155.61	0.00	0.00	0.00
196	30-Aug-06	2	C	1		175.62	0.00	0.00	0.00
198	30-Aug-06	3	C	1		50.19	0.00	0.00	0.00
193	30-Aug-06	1	T	1	432.043888	402.584149	0.00	0.00	0.00
195	30-Aug-06	2	T	1	176.297816	146.720176	0.00	0.00	0.00
197	30-Aug-06	3	T	1	144.351931	144.351931	205.42	0.59	195.24
	20-Sep-06	1	C	1	0.00	0.00	0.00	0.00	0.00
200	20-Sep-06	2	C	1		366.36	0.00	0.00	0.00
202	20-Sep-06	3	C	1		119.63	0.00	0.00	0.00
199	20-Sep-06	1	T	1	571.178076	494.190173	0.00	0.00	0.00
	20-Sep-06	2	T	1					
201	20-Sep-06	3	T	1	54.5469897	54.5469897	20.11	0.27	5.93
	27-Sep-06	1	C	1	0.00	0.00	0.00	0.00	0.00
205	27-Sep-06	2	C	1		146.33	0.00	0.00	0.00
207	27-Sep-06	3	C	1		79.88	0.00	0.00	0.00
203	27-Sep-06	1	T	1	369.745943	300.799384	0.00	0.00	0.00
204	27-Sep-06	2	T	1	252.543621	252.543621	22.85	0.08	22.27
206	27-Sep-06	3	T	1	540.167636	409.605241	0.00	0.00	0.00
	11-Oct-06	1	C	1	0.00	0.00	0.00	0.00	0.00
209	11-Oct-06	2	C	1		98.22	0.00	0.00	0.00
210	11-Oct-06	3	C	1		192.70	0.00	0.00	0.00
208	11-Oct-06	1	T	1	283.856957	283.856957	18.46	0.06	5.44
	11-Oct-06	2	T	1	0.00	0.00	0.00	0.00	0.00
	11-Oct-06	3	T	1	0.00	0.00	0.00	0.00	0.00
	17-Oct-06	1	C	1	0.00	0.00	0.00	0.00	0.00
212	17-Oct-06	2	C	1		131.58	0.00	0.00	0.00
213	17-Oct-06	3	C	1		209.92	0.00	0.00	0.00
211	17-Oct-06	1	T	1	206.463509	206.463509	64.06	0.24	18.89
	17-Oct-06	2	T	1	0.00	0.00	0.00	0.00	0.00
	17-Oct-06	3	T	1	0.00	0.00	0.00	0.00	0.00
216	25-Oct-06	1	C	1		123.08	0.00	0.00	0.00
219	25-Oct-06	2	C	1		81.87	0.00	0.00	0.00
223	25-Oct-06	3	C	1		160.23	0.00	0.00	0.00
214	25-Oct-06	1	T	1	81.4587595	81.4587595	24.87	0.23	1040.94
217	25-Oct-06	2	T	1	132.66096	123.820174	0.00	0.00	0.00

					in sample	in sample	in sample	prop	total C
sample					C from soil	C from soil	C from char	from char	from char
#	date	rep	trt	depth	ug	FIXED ug	ug		g/ha
221	25-Oct-06	3	T	1	49.758379	49.758379	60.51	0.55	1599.78
227	9-Nov-06	1	C	1		134.05	0.00	0.00	0.00
230	9-Nov-06	2	C	1		103.44	0.00	0.00	0.00
232	9-Nov-06	3	C	1		70.66	0.00	0.00	0.00
225	9-Nov-06	1	T	1	133.243827	133.243827	11.06	0.08	117.83
228	9-Nov-06	2	T	1	98.3234885	98.3234885	46.02	0.32	130.50
231	9-Nov-06	3	T	1	38.3929554	38.3929554	65.95	0.63	958.49
234	16-Nov-06	1	C	1	.	.	.	.	.
236	16-Nov-06	2	C	1		88.35	0.00	0.00	0.00
238	16-Nov-06	3	C	1		118.13	0.00	0.00	0.00
233	16-Nov-06	1	T	1	196.571997	196.571997	3.27	0.02	20.34
	16-Nov-06	2	T	1	0.00	0.00	0.00	0.00	0.00
237	16-Nov-06	3	T	1	130.162568	130.162568	43.59	0.25	119.30
241	13-Dec-06	1	C	1		148.77	0.00	0.00	0.00
244	13-Dec-06	2	C	1		112.33	0.00	0.00	0.00
248	13-Dec-06	3	C	1		40.56	0.00	0.00	0.00
239	13-Dec-06	1	T	1	255.115264	153.708292	0.00	0.00	0.00
242	13-Dec-06	2	T	1	39.1105005	39.1105005	6.12	0.14	43.50
246	13-Dec-06	3	T	1	66.4820379	66.4820379	103.63	0.61	762.57
2	26-May-05	1	T	2	186.08587	186.08587	124.53	0.40	934.21
	26-May-05	2	T	2	0.00	0.00	0.00	0.00	0.00
	26-May-05	3	T	2	0.00	0.00	0.00	0.00	0.00
7	8-Jun-05	1	T	2	.	.	.	.	.
10	8-Jun-05	2	T	2	.	.	.	.	.
13	8-Jun-05	3	T	2	26.6285059	26.6285059	12.83	0.33	70.04
17	22-Jun-05	1	C	2		.			
	22-Jun-05	2	C	2	0.00	0.00	0.00	0.00	0.00
24	22-Jun-05	3	C	2		79.92	0.00	0.00	0.00
15	22-Jun-05	1	T	2	58.935761	58.935761	21.57	0.27	448.42
19	22-Jun-05	2	T	2	43.7805274	43.7805274	27.73	0.39	558.87
22	22-Jun-05	3	T	2	.	.	.	.	.
26	30-Jun-05	1	T	2	.	.	.	.	.
	30-Jun-05	2	T	2	0.00	0.00	0.00	0.00	0.00
31	30-Jun-05	3	T	2	.	.	.	.	.
	17-Jul-05	1	T	2	0.00	0.00	0.00	0.00	0.00
	17-Jul-05	2	T	2	0.00	0.00	0.00	0.00	0.00
40	17-Jul-05	3	T	2	-233.21927	0	973.29	1.00	923.39
46	17-Aug-05	1	T	2	-295.56999	0.00	66.45	1.00	886.92
49	17-Aug-05	2	T	2	-527.37993	0.00	103.36	1.00	468.10
	17-Aug-05	3	T	2	0.00	0.00	0.00	0.00	0.00
55	24-Aug-05	1	C	2		253.62	0.00	0.00	0.00
57	24-Aug-05	2	C	2		641.70	0.00	0.00	0.00

					in sample	in sample	in sample	prop	total C
sample					C from soil	C from soil	C from char	from char	from char
#	date	rep	trt	depth	ug	FIXED ug	ug		g/ha
	24-Aug-05	3	C	2	0.00	0.00	0.00	0.00	0.00
53	24-Aug-05	1	T	2	-980.39044	0.00	291.61	1.00	2376.97
	24-Aug-05	2	T	2	0.00	0.00	0.00	0.00	0.00
	24-Aug-05	3	T	2	0.00	0.00	0.00	0.00	0.00
	20-Sep-05	1	T	2	0.00	0.00	0.00	0.00	0.00
	20-Sep-05	2	T	2	0.00	0.00	0.00	0.00	0.00
63	20-Sep-05	3	T	2	-265.30706	0.00	705.91	1.00	749.73
65	28-Sep-05	1	T	2	118.563221	89.6275253	0.00	0.00	0.00
	28-Sep-05	2	T	2	0.00	0.00	0.00	0.00	0.00
70	28-Sep-05	3	T	2	1033.19334	753.077789	0.00	0.00	0.00
	25-Oct-05	1	C	2	0.00	0.00	0.00	0.00	0.00
80	25-Oct-05	2	C	2		107.49	0.00	0.00	0.00
	25-Oct-05	3	C	2		0.00	0.00	0.00	0.00
75	25-Oct-05	1	T	2	102.735985	77.1371394	0.00	0.00	0.00
78	25-Oct-05	2	T	2	139.052354	139.052354	42.30	0.23	16.49
82	25-Oct-05	3	T	2	.	.	.	.	.
	1-Nov-05	1	T	2	0.00	0.00	0.00	0.00	0.00
	1-Nov-05	2	T	2	0.00	0.00	0.00	0.00	0.00
87	1-Nov-05	3	T	2	.	.	.	.	.
	28-Mar-06	1	C	2	0.00	0.00	0.00	0.00	0.00
93	28-Mar-06	2	C	2		73.03	0.00	0.00	0.00
	28-Mar-06	3	C	2	0.00	0.00	0.00	0.00	0.00
	28-Mar-06	1	T	2	0.00	0.00	0.00	0.00	0.00
91	28-Mar-06	2	T	2	-58490.879	0.00	1062.94	1.00	1035.52
	28-Mar-06	3	T	2	0.00	0.00	0.00	0.00	0.00
	27-Apr-06	1	C	2	0.00	0.00	0.00	0.00	0.00
106	27-Apr-06	2	C	2		75.05	0.00	0.00	0.00
110	27-Apr-06	3	C	2		387.64	0.00	0.00	0.00
101	27-Apr-06	1	T	2	275.890889	91.2228629	0.00	0.00	0.00
104	27-Apr-06	2	T	2	57.8320735	42.7309352	0.00	0.00	0.00
108	27-Apr-06	3	T	2	8977.9881	170.357325	0.00	0.00	0.00
	8-May-06	1	C	2	0.00	0.00	0.00	0.00	0.00
117	8-May-06	2	C	2		125.74	0.00	0.00	0.00
	8-May-06	3	C	2		0.00	0.00	0.00	0.00
112	8-May-06	1	T	2	39.6882634	35.0572752	0.00	0.00	0.00
115	8-May-06	2	T	2	41.2133842	41.2133842	13.46	0.25	86.27
119	8-May-06	3	T	2	55.7397749	55.5558303	0.00	0.00	0.00
	26-May-06	1	T	2	0.00	0.00	0.00	0.00	0.00
124	26-May-06	2	T	2	11.0639838	11.0639838	12.25	0.53	42.36
127	26-May-06	3	T	2	66.2386767	66.2386767	4.06	0.06	29.82
130	31-May-06	1	T	2	37.5260203	37.5260203	13.28	0.26	29.70

					in sample	in sample	in sample	prop	total C
sample					C from soil	C from soil	C from char	from char	from char
#	date	rep	trt	depth	ug	FIXED ug	ug		g/ha
133	31-May-06	2	T	2	11.7617131	11.7617131	4.34	0.27	6.86
136	31-May-06	3	T	2	82.4309277	82.0578042	0.00	0.00	0.00
	5-Jun-06	1	C	2	0.00	0.00	0.00	0.00	0.00
143	5-Jun-06	2	C	2		304.81	0.00	0.00	0.00
	5-Jun-06	3	C	2	0.00	0.00	0.00	0.00	0.00
139	5-Jun-06	1	T	2	24.2794742	23.1504262	0.00	0.00	0.00
	5-Jun-06	2	T	2	0.00	0.00	0.00	0.00	0.00
145	5-Jun-06	3	T	2	78.7762174	76.7607422	0.00	0.00	0.00
145	8-Jun-06	1	C	2	0.00	0.00	0.00	0.00	0.00
153	8-Jun-06	2	C	2		49.09	0.00	0.00	0.00
	8-Jun-06	3	C	2	0.00	0.00	0.00	0.00	0.00
148	8-Jun-06	1	T	2	13.5305638	13.4398238	0.00	0.00	0.00
151	8-Jun-06	2	T	2	41.4946534	41.4946534	9.56	0.19	6.45
155	8-Jun-06	3	T	2	42.6172067	37.239859	0.00	0.00	0.00
164	28-Jun-06	1	T	2	33.5107966	33.5107966	4.90	0.13	25.53
	28-Jun-06	2	T	2	0.00	0.00	0.00	0.00	0.00
169	28-Jun-06	3	T	2	115.941722	114.330055	0.00	0.00	0.00
	26-Jul-06	1	C	2	0.00	0.00	0.00	0.00	0.00
176	26-Jul-06	2	C	2		1472.37	0.00	0.00	0.00
	26-Jul-06	3	C	2	0.00	0.00	0.00	0.00	0.00
171	26-Jul-06	1	T	2	2784.63882	2784.63882	8.25	0.00	8.38
174	26-Jul-06	2	T	2	615.633117	615.633117	1636.79	0.73	1843.16
	26-Jul-06	3	T	2	0.00	0.00	0.00	0.00	0.00
	25-Oct-06	1	C	2	0.00	0.00	0.00	0.00	0.00
	25-Oct-06	2	C	2	0.00	0.00	0.00	0.00	0.00
224	25-Oct-06	3	C	2		335.25	0.00	0.00	0.00
215	25-Oct-06	1	T	2	353.419082	341.337951	0.00	0.00	0.00
218	25-Oct-06	2	T	2	236.6026	178.110895	0.00	0.00	0.00
222	25-Oct-06	3	T	2	359.490916	359.490916	22.09	0.06	456.01
226	9-Nov-06	1	T	2	.	.	.	.	.
229	9-Nov-06	2	T	2	43.5804973	43.5804973	44.61	0.51	13.14
	9-Nov-06	3	T	2	0.00	0.00	0.00	0.00	0.00
	16-Nov-06	1	T	2	0.00	0.00	0.00	0.00	0.00
235	16-Nov-06	2	T	2	26.3069703	26.3069703	29.86	0.53	20.66
	16-Nov-06	3	T	2	0.00	0.00	0.00	0.00	0.00
	13-Dec-06	1	C	2	0.00	0.00	0.00	0.00	0.00
245	13-Dec-06	2	C	2		384.68	0.00	0.00	0.00
249	13-Dec-06	3	C	2	.	.	.	.	.
240	13-Dec-06	1	T	2	61.7077326	61.7077326	52.39	0.46	15.43
243	13-Dec-06	2	T	2	28.5009096	28.5009096	26.00	0.48	210.14
247	13-Dec-06	3	T	2	225.216839	225.216839	110.98	0.33	32.70

					total	volume	conc of	leached
sample					% of applied	analyzed	C in sample	volume
#	date	rep	trt	depth		ml	ug/ml	ml
3	26-May-05	1	C	1		.	.	0
4	26-May-05	2	C	1	0.00	36.607355	3.435418178	1187.00
	26-May-05	3	C	1	0.00	0	0	0
1	26-May-05	1	T	1	0.68	36.607355	6.061307296	786.00
	26-May-05	2	T	1	0.00	0	0	0
5	26-May-05	3	T	1	0.43	39.4288	2.696697452	786.00
8	8-Jun-05	1	C	1	0.00	39.4288	2.429680527	1053.00
11	8-Jun-05	2	C	1		.	.	0
	8-Jun-05	3	C	1	0.00	0	0	0
6	8-Jun-05	1	T	1		.	.	0
9	8-Jun-05	2	T	1		.	.	0
12	8-Jun-05	3	T	1	0.00	0	0	0
16	22-Jun-05	1	C	1	0.00	41.48076	1.175114275	2810.00
20	22-Jun-05	2	C	1	0.00	41.99375	1.693200917	2290.00
23	22-Jun-05	3	C	1	0.00	42.50674	1.945833223	2855.00
14	22-Jun-05	1	T	1	0.53	39.685295	3.137639684	1738.00
18	22-Jun-05	2	T	1	0.00	37.88983	2.883792179	2855.00
21	22-Jun-05	3	T	1		.	.	0
27	30-Jun-05	1	C	1		.	.	0
29	30-Jun-05	2	C	1		.	.	0
	30-Jun-05	3	C	1	0.00	0	0	0
25	30-Jun-05	1	T	1		.	.	0
28	30-Jun-05	2	T	1		.	.	0
30	30-Jun-05	3	T	1		.	.	0
33	11-Jul-05	1	C	1	0.00	61.48737	6.309523822	190.00
34	11-Jul-05	2	C	1		.	.	0
	11-Jul-05	3	C	1	0.00	0	0	0
32	11-Jul-05	1	T	1	0.25	59.5508	1.122677478	176.00
	11-Jul-05	2	T	1	0.00	0	0	0
	11-Jul-05	3	T	1	0.00	0	0	0
36	17-Jul-05	1	C	1		.	.	0
38	17-Jul-05	2	C	1		.	.	0
	17-Jul-05	3	C	1	0.00	0	0	0
35	17-Jul-05	1	T	1	0.34	42.8664	3.635453545	74.00
37	17-Jul-05	2	T	1		.	.	0
39	17-Jul-05	3	T	1		.	.	0
42	24-Jul-05	1	C	1		.	.	0
	24-Jul-05	2	C	1	0.00	0	0	0
	24-Jul-05	3	C	1	0.00	0	0	0
41	24-Jul-05	1	T	1	0.81	56.89644	2.253836543	282.00
43	24-Jul-05	2	T	1	1.20	53.88923	6.329550397	149.00
44	24-Jul-05	3	T	1	7.62	53.119745	7.180928598	836.00
47	17-Aug-05	1	C	1	0.00	63.53933	0.969951256	1872.00

					total	volume	conc of	leached
sample					% of applied	analyzed	C in sample	volume
#	date	rep	trt	depth		ml	ug/ml	ml
50	17-Aug-05	2	C	1	0.00	63.02634	0.449845309	367.00
	17-Aug-05	3	C	1	0.00	0	0	0
45	17-Aug-05	1	T	1	0.69	62.769845	4.855645151	953.00
48	17-Aug-05	2	T	1	3.11	41.99375	3.165976406	2855.00
51	17-Aug-05	3	T	1	3.50	38.659315	2.548075312	2855.00
54	24-Aug-05	1	C	1	0.00	63.53933	0.808086572	461.00
	24-Aug-05	2	C	1	0.00	0	0	0
	24-Aug-05	3	C	1	0.00	0	0	0
52	24-Aug-05	1	T	1	0.00	65.59129	3.039613082	367.00
56	24-Aug-05	2	T	1	0.00	62.51335	2.286104967	520.00
58	24-Aug-05	3	T	1	0.00	63.02634	4.523237176	618.00
59	20-Sep-05	1	C	1		57.48016	1.478387715	.
61	20-Sep-05	2	C	1	0.00	62.256855	1.281867784	1070.00
	20-Sep-05	3	C	1	0.00	0	0	0
	20-Sep-05	1	T	1	0.00	0	0	0
60	20-Sep-05	2	T	1	0.00	63.02634	4.499846363	552.00
62	20-Sep-05	3	T	1	0.00	60.97438	3.377764621	786.00
66	28-Sep-05	1	C	1	0.00	62.51335	1.109639029	367.00
68	28-Sep-05	2	C	1	0.00	62.00036	1.786357968	953.00
	28-Sep-05	3	C	1	0.00	0	0	0
64	28-Sep-05	1	T	1	0.00	59.43541	8.518965152	20.00
67	28-Sep-05	2	T	1	0.00	65.0783	3.179377331	461.00
69	28-Sep-05	3	T	1	0.00	62.00036	2.684245405	2369.00
71	4-Oct-05	1	C	1		.	.	0
72	4-Oct-05	2	C	1		.	.	0
	4-Oct-05	3	C	1	0.00	0	0	0
	4-Oct-05	1	T	1	0.00	0	0	0
	4-Oct-05	2	T	1	0.00	0	0	0
73	4-Oct-05	3	T	1	0.16	61.48737	3.464487181	585.00
76	25-Oct-05	1	C	1	0.00	39.4288	1.071284051	1203.00
79	25-Oct-05	2	C	1	0.00	58.92242	1.590357998	1621.00
83	25-Oct-05	3	C	1	0.00	0	0	0
74	25-Oct-05	1	T	1	0.00	58.50614	3.61431133	819.00
77	25-Oct-05	2	T	1	0.00	37.88983	1.702444553	669.00
81	25-Oct-05	3	T	1		33.78591	1.989324911	.
	1-Nov-05	1	C	1	0.00	0	0	0
85	1-Nov-05	2	C	1	0.00	45.1684	1.494178379	969.00
85	1-Nov-05	3	C	1	0.00	0	0	0
84	1-Nov-05	1	T	1	0.00	56.35747	3.810689206	1320.00
	1-Nov-05	2	T	1	0.00	0	0	0
86	1-Nov-05	3	T	1		.	.	0
89	28-Mar-06	1	C	1	0.00	65.0783	1.604068015	518.00
92	28-Mar-06	2	C	1	0.00	65.0783	1.834759615	2156.00
	28-Mar-06	3	C	1	0.00	0	0	0

					total	volume	conc of	leached
sample					% of applied	analyzed	C in sample	volume
#	date	rep	trt	depth		ml	ug/ml	ml
88	28-Mar-06	1	T	1	0.00	63.53933	9.0824274	385.00
90	28-Mar-06	2	T	1	2.59	62.00036	1.557345197	2855.00
94	28-Mar-06	3	T	1	0.00	64.05232	4.145471806	1203.00
252	6-Apr-06	1	C	1	.	62.51335	1.86542166	.
251	6-Apr-06	2	C	1	.	64.56531	2.078329187	.
	6-Apr-06	3	C	1	0.00	0	0	0
253	6-Apr-06	1	T	1	.	62.00036	6.483976415	.
250	6-Apr-06	2	T	1	.	63.02634	2.569729578	.
	6-Apr-06	3	T	1	0.00	0	0	0
96	20-Apr-06	1	C	1	0.00	62.00036	0.71944673	501.00
98	20-Apr-06	2	C	1		.	.	0
	20-Apr-06	3	C	1	0.00	0	0	0
95	20-Apr-06	1	T	1		.	.	0
97	20-Apr-06	2	T	1		.	.	0
99	20-Apr-06	3	T	1	0.00	63.02634	6.845866929	1371.00
102	27-Apr-06	1	C	1	0.00	42.09046	0.560952347	2123.00
105	27-Apr-06	2	C	1	0.00	39.94179	0.768237485	2855.00
109	27-Apr-06	3	C	1	0.00	64.56531	1.207802877	1120.00
100	27-Apr-06	1	T	1	0.00	63.795825	4.850134786	2855.00
103	27-Apr-06	2	T	1	0.00	64.05232	2.112132703	2855.00
107	27-Apr-06	3	T	1	0.00	60.97438	6.876623968	2855.00
113	8-May-06	1	C	1	0.00	64.308815	1.012380055	1538.00
116	8-May-06	2	C	1	0.00	64.05232	1.784241679	2039.00
120	8-May-06	3	C	1	0.00	62.769845	0.537348946	702.00
111	8-May-06	1	T	1	0.00	64.821805	4.912473988	2855.00
114	8-May-06	2	T	1	0.32	64.05232	2.292174401	2369.00
118	8-May-06	3	T	1	0.00	60.204895	4.875243589	2855.00
122	26-May-06	1	C	1	0.00	62.51335	0.483999106	786.00
125	26-May-06	2	C	1	0.00	61.48737	1.121090366	1722.00
128	26-May-06	3	C	1	0.00	64.821805	1.000915077	485.00
121	26-May-06	1	T	1	0.00	44.65541	1.485822101	2586.00
123	26-May-06	2	T	1	0.00	61.48737	1.358972507	1120.00
126	26-May-06	3	T	1	0.00	62.00036	4.187799337	2123.00
131	31-May-06	1	C	1	0.00	63.53933	0.476068014	903.00
134	31-May-06	2	C	1	0.00	61.230875	0.932624146	1671.00
137	31-May-06	3	C	1	0.00	61.48737	0.519007649	404.00
129	31-May-06	1	T	1	0.00	59.9484	2.803760733	2156.00
132	31-May-06	2	T	1	0.00	63.02634	0.941452347	836.00
135	31-May-06	3	T	1	0.00	60.204895	3.086758864	3387.00
140	5-Jun-06	1	C	1	0.00	61.743865	0.55311303	903.00
142	5-Jun-06	2	C	1	0.00	62.00036	3.335883668	1137.00
146	5-Jun-06	3	C	1	0.00	63.02634	1.156298269	122.00
138	5-Jun-06	1	T	1	0.00	63.53933	3.54782467	2290.00
141	5-Jun-06	2	T	1	0.00	62.51335	1.394866106	568.00

					total	volume	conc of	leached
sample					% of applied	analyzed	C in sample	volume
#	date	rep	trt	depth		ml	ug/ml	ml
144	5-Jun-06	3	T	1	0.00	42.60345	2.359312252	4355.00
149	8-Jun-06	1	C	1	0.00	57.99315	4.981437836	2855.00
152	8-Jun-06	2	C	1	0.00	60.717885	1.948654857	2123.00
156	8-Jun-06	3	C	1	0.00	59.9484	0.720355158	535.00
147	8-Jun-06	1	T	1	0.00	62.00036	1.658845688	3205.00
150	8-Jun-06	2	T	1	0.05	61.48737	0.574153012	367.00
154	8-Jun-06	3	T	1	0.00	60.97438	1.262326261	3405.00
158	15-Jun-06	1	C	1	0.00	62.51335	0.828497209	953.00
160	15-Jun-06	2	C	1	0.00	63.53933	1.420138431	585.00
162	15-Jun-06	3	C	1	0.00	0	0	0
157	15-Jun-06	1	T	1	0.00	61.48737	2.081606102	702.00
159	15-Jun-06	2	T	1	0.06	52.35026	2.116643926	52.35
161	15-Jun-06	3	T	1	0.00	59.53212	3.408551688	451.00
165	28-Jun-06	1	C	1	0.00	59.9484	3.251817886	135.00
167	28-Jun-06	2	C	1	0.00	62.00036	0.578569343	618.00
	28-Jun-06	3	C	1	0.00	0	0	0
163	28-Jun-06	1	T	1	0.00	50.2983	3.793431987	2861.00
166	28-Jun-06	2	T	1	0.09	61.743865	1.395913724	367.00
168	28-Jun-06	3	T	1	0.00	61.48737	3.652642318	986.00
172	26-Jul-06	1	C	1	0.00	63.53933	38.35370473	367.00
175	26-Jul-06	2	C	1	0.00	62.51335	6.197471964	1538.00
178	26-Jul-06	3	C	1	0.00	63.795825	16.26752847	602.00
170	26-Jul-06	1	T	1	0.00	62.51335	7.924164216	4105.00
173	26-Jul-06	2	T	1	0.00	39.269015	18.08657285	1003.00
177	26-Jul-06	3	T	1	10.97	63.282835	6.633394798	2586.00
	9-Aug-06	1	C	1	0.00	0	0	0
179	9-Aug-06	2	C	1	0.00	61.48737	10.61119308	122.00
	9-Aug-06	3	C	1	0.00	0	0	0
	9-Aug-06	1	T	1	0.00	0	0	0
	9-Aug-06	2	T	1	0.00	0	0	0
180	9-Aug-06	3	T	1	0.00	50.2983	9.009645384	110.00
182	16-Aug-06	1	C	1	0.00	57.639945	16.13687027	30.00
184	16-Aug-06	2	C	1	0.00	60.97438	1.7888177	827.00
186	16-Aug-06	3	C	1	0.00	60.46139	2.973612386	869.00
181	16-Aug-06	1	T	1	0.00	59.43541	11.5627296	200.00
183	16-Aug-06	2	T	1	0.00	65.0783	9.03240596	453.00
185	16-Aug-06	3	T	1	2.27	64.308815	6.867431451	540.00
188	23-Aug-06	1	C	1	0.00	60.97438	3.657687129	30.00
190	23-Aug-06	2	C	1	0.00	64.05232	2.170661542	369.00
192	23-Aug-06	3	C	1	0.00	62.51335	1.273522822	535.00
187	23-Aug-06	1	T	1	0.10	60.97438	4.862555813	369.00
189	23-Aug-06	2	T	1	0.00	62.51335	2.593147331	200.00
191	23-Aug-06	3	T	1	0.99	64.56531	3.780176348	369.00
194	30-Aug-06	1	C	1	0.00	35.42159	4.393192005	35.42

					total	volume	conc of	leached
sample					% of applied	analyzed	C in sample	volume
#	date	rep	trt	depth		ml	ug/ml	ml
196	30-Aug-06	2	C	1	0.00	63.53933	2.763963992	369.00
198	30-Aug-06	3	C	1	0.00	40.294995	1.245445392	618.00
193	30-Aug-06	1	T	1	0.00	61.743865	6.520229167	284.00
195	30-Aug-06	2	T	1	0.00	60.46139	2.426675531	369.00
197	30-Aug-06	3	T	1	0.84	62.00036	5.641478772	200.00
	20-Sep-06	1	C	1	0.00	0	0	0
200	20-Sep-06	2	C	1	0.00	58.152935	6.299857876	738.00
202	20-Sep-06	3	C	1	0.00	61.743865	1.937555949	20.00
199	20-Sep-06	1	T	1	0.00	62.51335	7.90535418	369.00
	20-Sep-06	2	T	1		0	0	0
201	20-Sep-06	3	T	1	0.03	14.90199	5.010063842	14.90
	27-Sep-06	1	C	1	0.00	0	0	0
205	27-Sep-06	2	C	1	0.00	65.59129	2.230916222	1363.00
207	27-Sep-06	3	C	1	0.00	61.48737	1.299086428	535.00
203	27-Sep-06	1	T	1	0.00	62.00036	4.851574794	738.00
204	27-Sep-06	2	T	1	0.10	60.46139	4.55494561	200.00
206	27-Sep-06	3	T	1	0.00	58.92242	6.951602476	200.00
	11-Oct-06	1	C	1	0.00	0	0	0
209	11-Oct-06	2	C	1	0.00	42.09046	2.333522935	618.00
210	11-Oct-06	3	C	1	0.00	63.795825	3.020639552	100.00
208	11-Oct-06	1	T	1	0.02	60.46139	5.000129575	60.46
	11-Oct-06	2	T	1	0.00	0	0	0
	11-Oct-06	3	T	1	0.00	0	0	0
	17-Oct-06	1	C	1	0.00	0	0	0
212	17-Oct-06	2	C	1	0.00	38.9	3.382546884	649.00
213	17-Oct-06	3	C	1	0.00	61.48737	3.413993039	250.00
211	17-Oct-06	1	T	1	0.08	41.57747	6.506593436	41.60
	17-Oct-06	2	T	1	0.00	0	0	0
	17-Oct-06	3	T	1	0.00	0	0	0
216	25-Oct-06	1	C	1	0.00	62.51335	1.968811696	1810.00
219	25-Oct-06	2	C	1	0.00	62.51335	1.309587401	4375.00
223	25-Oct-06	3	C	1	0.00	56.5	2.835845465	2855.00
214	25-Oct-06	1	T	1	4.49	55.4282	1.918253633	7875.00
217	25-Oct-06	2	T	1	0.00	59.53212	2.079888541	4185.00
221	25-Oct-06	3	T	1	6.90	60.46139	1.823835087	5425.00
227	9-Nov-06	1	C	1	0.00	62.51335	2.14435649	369.00
230	9-Nov-06	2	C	1	0.00	62.51335	1.654739419	917.00
232	9-Nov-06	3	C	1	0.00	63.53933	1.112040081	1371.00
225	9-Nov-06	1	T	1	0.51	59.9484	2.407183307	2167.00
228	9-Nov-06	2	T	1	0.56	55.9	2.582188729	538.00
231	9-Nov-06	3	T	1	4.13	58.40943	1.786465491	2881.00
234	16-Nov-06	1	C	1		.	.	0
236	16-Nov-06	2	C	1	0.00	63.02634	1.401807827	369.00
238	16-Nov-06	3	C	1	0.00	62.51335	1.889749108	135.00

					total	volume	conc of	leached
sample					% of applied	analyzed	C in sample	volume
#	date	rep	trt	depth		ml	ug/ml	ml
233	16-Nov-06	1	T	1	0.09	62.00036	3.223200506	1310.00
	16-Nov-06	2	T	1	0.00	0	0	0
237	16-Nov-06	3	T	1	0.51	64.05232	2.712629419	595.00
241	13-Dec-06	1	C	1	0.00	55.94119	2.659406246	1345.00
244	13-Dec-06	2	C	1	0.00	57.736655	1.945493969	2792.00
248	13-Dec-06	3	C	1	0.00	61.48737	0.659628181	969.00
239	13-Dec-06	1	T	1	0.00	60.46139	2.542255345	1524.00
242	13-Dec-06	2	T	1	0.19	60.97438	0.741864353	1470.00
246	13-Dec-06	3	T	1	3.29	61.743865	2.755192135	1542.00
2	26-May-05	1	T	2	4.03	28.23973	10.99941169	719.00
	26-May-05	2	T	2	0.00	0	0	0
	26-May-05	3	T	2	0.00	0	0	0
7	8-Jun-05	1	T	2		.	.	0
10	8-Jun-05	2	T	2		.	.	0
13	8-Jun-05	3	T	2	0.30	39.685295	0.994392212	735.00
17	22-Jun-05	1	C	2		.	.	0
	22-Jun-05	2	C	2	0.00	0	0	0
24	22-Jun-05	3	C	2	0.00	25.67478	3.112738913	1337.00
15	22-Jun-05	1	T	2	1.93	40.45478	1.98991317	2855.00
19	22-Jun-05	2	T	2	2.41	41.737255	1.713339747	2855.00
22	22-Jun-05	3	T	2		.	.	0
26	30-Jun-05	1	T	2		.	.	0
	30-Jun-05	2	T	2	0.00	0	0	0
31	30-Jun-05	3	T	2		.	.	0
	17-Jul-05	1	T	2	0.00	0	0	0
	17-Jul-05	2	T	2	0.00	0	0	0
40	17-Jul-05	3	T	2	3.98	54.658715	17.80673095	176.00
46	17-Aug-05	1	T	2	3.82	63.02634	1.054368566	2855.00
49	17-Aug-05	2	T	2	2.02	62.00036	1.667090147	953.00
	17-Aug-05	3	T	2	0.00	0	0	0
55	24-Aug-05	1	C	2	0.00	61.48737	4.124801604	702.00
57	24-Aug-05	2	C	2	0.00	64.05232	10.01844999	535.00
	24-Aug-05	3	C	2	0.00	0	0	0
53	24-Aug-05	1	T	2	10.25	64.05232	4.552727444	1772.00
	24-Aug-05	2	T	2	0.00	0	0	0
	24-Aug-05	3	T	2	0.00	0	0	0
	20-Sep-05	1	T	2	0.00	0	0	0
	20-Sep-05	2	T	2	0.00	0	0	0
63	20-Sep-05	3	T	2	3.23	56.87046	12.41252929	205.00
65	28-Sep-05	1	T	2	0.00	63.282835	1.416300729	618.00
	28-Sep-05	2	T	2	0.00	0	0	0
70	28-Sep-05	3	T	2	0.00	62.51335	12.04667146	205.00
	25-Oct-05	1	C	2	0.00	0	0	0
80	25-Oct-05	2	C	2	0.00	60.204895	1.785434957	332.00

					total	volume	conc of	leached
sample					% of applied	analyzed	C in sample	volume
#	date	rep	trt	depth		ml	ug/ml	ml
	25-Oct-05	3	C	2	0.00	0	0	0
75	25-Oct-05	1	T	2	0.00	58.40943	1.320628183	1788.00
78	25-Oct-05	2	T	2	0.07	55.94119	3.24189369	74.00
82	25-Oct-05	3	T	2		.	.	0
	1-Nov-05	1	T	2	0.00	0	0	0
	1-Nov-05	2	T	2	0.00	0	0	0
87	1-Nov-05	3	T	2		.	.	.
	28-Mar-06	1	C	2	0.00	0	0	0
93	28-Mar-06	2	C	2	0.00	41.737255	1.749828401	583.00
	28-Mar-06	3	C	2	0.00	0	0	0
	28-Mar-06	1	T	2	0.00	0	0	0
91	28-Mar-06	2	T	2	4.46	62.00036	17.14408987	205.00
	28-Mar-06	3	T	2	0.00	0	0	0
	27-Apr-06	1	C	2	0.00	0	0	0
106	27-Apr-06	2	C	2	0.00	63.02634	1.190743632	1287.00
110	27-Apr-06	3	C	2	0.00	40.294995	9.620050151	282.00
101	27-Apr-06	1	T	2	0.00	39.52551	2.307949041	2855.00
104	27-Apr-06	2	T	2	0.00	42.09046	1.015216636	2863.00
108	27-Apr-06	3	T	2	0.00	62.51335	2.725135104	2855.00
	8-May-06	1	C	2	0.00	0	0	0
117	8-May-06	2	C	2	0.00	57.89644	2.171737763	367.00
	8-May-06	3	C	2	0.00	0	0	0
112	8-May-06	1	T	2	0.00	39.52551	0.88695314	2644.00
115	8-May-06	2	T	2	0.37	63.02634	0.86747766	1371.00
119	8-May-06	3	T	2	0.00	63.795825	0.870838026	2321.00
	26-May-06	1	T	2	0.00	0	0	0
124	26-May-06	2	T	2	0.18	64.05232	0.363921153	752.00
127	26-May-06	3	T	2	0.13	65.0783	1.080273924	1621.00
130	31-May-06	1	T	2	0.13	59.43541	0.854857534	451.00
133	31-May-06	2	T	2	0.03	65.334795	0.246521467	350.00
136	31-May-06	3	T	2	0.00	60.46139	1.357193478	1538.00
	5-Jun-06	1	C	2	0.00	0	0	0
143	5-Jun-06	2	C	2	0.00	62.51335	4.875930773	205.00
	5-Jun-06	3	C	2	0.00	0	0	0
139	5-Jun-06	1	T	2	0.00	64.56531	0.358558275	1287.00
	5-Jun-06	2	T	2	0.00	0	0	0
145	5-Jun-06	3	T	2		63.02634	1.217915275	3605.00
145	8-Jun-06	1	C	2	0.00	0	0	0
153	8-Jun-06	2	C	2	0.00	63.282835	0.775784956	1120.00
	8-Jun-06	3	C	2	0.00	0	0	0
148	8-Jun-06	1	T	2	0.00	63.795825	0.210669331	2855.00
151	8-Jun-06	2	T	2	0.03	58.92242	0.866485663	135.00
155	8-Jun-06	3	T	2	0.00	60.97438	0.610746005	2123.00
164	28-Jun-06	1	T	2	0.11	63.282835	0.60689244	1120.00

					total	volume	conc of	leached
sample					% of applied	analyzed	C in sample	volume
#	date	rep	trt	depth		ml	ug/ml	ml
	28-Jun-06	2	T	2	0.00	0	0	0
169	28-Jun-06	3	T	2	0.00	64.56531	1.770765993	451.00
	26-Jul-06	1	C	2	0.00	0	0	0
176	26-Jul-06	2	C	2	0.00	65.0783	22.62452271	468.00
	26-Jul-06	3	C	2	0.00	0	0	0
171	26-Jul-06	1	T	2	0.04	59.43541	46.99025325	205.00
174	26-Jul-06	2	T	2	7.94	61.48737	36.63221879	235.00
	26-Jul-06	3	T	2	0.00	0	0	0
	25-Oct-06	1	C	2	0.00	0	0	0
	25-Oct-06	2	C	2	0.00	0	0	0
224	25-Oct-06	3	C	2	0.00	63.02634	5.319133996	1371.00
215	25-Oct-06	1	T	2	0.00	61.48737	5.551350636	2267.00
218	25-Oct-06	2	T	2	0.00	62.51335	2.849165739	2448.00
222	25-Oct-06	3	T	2	1.97	63.53933	6.00548873	4451.00
226	9-Nov-06	1	T	2		.	.	.
229	9-Nov-06	2	T	2	0.06	60.04511	1.468717258	60.05
	9-Nov-06	3	T	2	0.00	0	0	0
	16-Nov-06	1	T	2	0.00	0	0	0
235	16-Nov-06	2	T	2	0.09	57.48016	0.977087576	135.00
	16-Nov-06	3	T	2	0.00	0	0	0
	13-Dec-06	1	C	2	0.00	0	0	0
245	13-Dec-06	2	C	2	0.00	62.51335	6.153561417	1287.00
249	13-Dec-06	3	C	2		.	.	.
240	13-Dec-06	1	T	2	0.07	28.75272	3.96823971	28.75
243	13-Dec-06	2	T	2	0.91	62.769845	0.868239743	1722.00
247	13-Dec-06	3	T	2	0.14	43.372935	7.751252586	43.37

					tot C	tot C	times flux	
sample					leached	leached	conc	total leached
#	date	rep	trt	depth	ug	g/ha	ug/ml	g/ha
3	26-May-05	1	C	1	.	.	.	.
4	26-May-05	2	C	1	4077.8414	1201.485379	4077.8	1426163.145
	26-May-05	3	C	1	0	0	0.0	0
1	26-May-05	1	T	1	4764.1875	1403.708761	4764.2	1103315.086
	26-May-05	2	T	1	0	0	0.0	0
5	26-May-05	3	T	1	2119.6042	624.5150845	2119.6	490868.8564
8	8-Jun-05	1	C	1	2558.4536	753.8166161	2558.5	793768.8967
11	8-Jun-05	2	C	1	.	.	.	.
	8-Jun-05	3	C	1	0	0	0.0	0
6	8-Jun-05	1	T	1	.	.	.	.
9	8-Jun-05	2	T	1	.	.	.	.
12	8-Jun-05	3	T	1	0	0	0.0	0
16	22-Jun-05	1	C	1	3302.0711	972.9142934	3302.1	2733889.164
20	22-Jun-05	2	C	1	3877.4301	1142.436682	3877.4	2616180.003
23	22-Jun-05	3	C	1	5555.3539	1636.816102	5555.4	4673109.972
14	22-Jun-05	1	T	1	5453.2178	1606.722973	5453.2	2792484.527
18	22-Jun-05	2	T	1	8233.2267	2425.818112	8233.2	6925710.71
21	22-Jun-05	3	T	1	.	.	.	.
27	30-Jun-05	1	C	1	.	.	.	.
29	30-Jun-05	2	C	1	.	.	.	.
	30-Jun-05	3	C	1	0	0	0.0	0
25	30-Jun-05	1	T	1	.	.	.	.
28	30-Jun-05	2	T	1	.	.	.	.
30	30-Jun-05	3	T	1	.	.	.	.
33	11-Jul-05	1	C	1	1198.8095	353.2143566	1198.8	67110.72775
34	11-Jul-05	2	C	1	.	.	.	.
	11-Jul-05	3	C	1	0	0	0.0	0
32	11-Jul-05	1	T	1	197.59124	58.21780676	197.6	10246.33399
	11-Jul-05	2	T	1	0	0	0.0	0
	11-Jul-05	3	T	1	0	0	0.0	0
36	17-Jul-05	1	C	1	.	.	.	.
38	17-Jul-05	2	C	1	.	.	.	.
	17-Jul-05	3	C	1	0	0	0.0	0
35	17-Jul-05	1	T	1	269.02356	79.26445562	269.0	5865.56971

								6
37	17-Jul-05	2	T	1	.	.	.	.
39	17-Jul-05	3	T	1	.	.	.	.
42	24-Jul-05	1	C	1	.	.	.	.
	24-Jul-05	2	C	1	0	0	0.0	0
	24-Jul-05	3	C	1	0	0	0.0	0
41	24-Jul-05	1	T	1	635.58191	187.2663245	635.6	52809.1035
43	24-Jul-05	2	T	1	943.10301	277.8736032	943.1	41403.1668 7
44	24-Jul-05	3	T	1	6003.2563	1768.785005	6003.3	1478704.26 4
					tot C	tot C	times flux	
sample					leached	leached	conc	total leached
#	date	rep	trt	depth	ug	g/ha	ug/ml	g/ha
47	17-Aug-05	1	C	1	1815.7488	534.9878466	1815.7	1001497.24 9
50	17-Aug-05	2	C	1	165.09323	48.64267192	165.1	17851.8605 9
	17-Aug-05	3	C	1	0	0	0.0	0
45	17-Aug-05	1	T	1	4627.4298	1363.414799	4627.4	1299334.30 4
48	17-Aug-05	2	T	1	9038.8626	2663.188757	9038.9	7603403.9
51	17-Aug-05	3	T	1	7274.755	2143.416328	7274.8	6119453.61 5
54	24-Aug-05	1	C	1	372.52791	109.7607277	372.5	50599.6954 7
	24-Aug-05	2	C	1	0	0	0.0	0
	24-Aug-05	3	C	1	0	0	0.0	0
52	24-Aug-05	1	T	1	1115.538	328.6794346	1115.5	120625.352 5
56	24-Aug-05	2	T	1	1188.7746	350.2576849	1188.8	182133.996 2
58	24-Aug-05	3	T	1	2795.3606	823.6183189	2795.4	508996.121 1
59	20-Sep-05	1	C	1	.	.	.	
61	20-Sep-05	2	C	1	1371.5985	404.1244928	1371.6	432413.207 3
	20-Sep-05	3	C	1	0	0	0.0	0
	20-Sep-05	1	T	1	0	0	0.0	0
60	20-Sep-05	2	T	1	2483.9152	731.8548004	2483.9	403983.849 8
62	20-Sep-05	3	T	1	2654.923	782.2401273	2654.9	614840.740 1
66	28-Sep-05	1	C	1	407.23752	119.9874849	407.2	44035.4069 5
68	28-Sep-05	2	C	1	1702.3991	501.5907906	1702.4	478016.023 4
	28-Sep-05	3	C	1	0	0	0.0	0
64	28-Sep-05	1	T	1	170.3793	50.20014821	170.4	1004.00296 4

67	28-Sep-05	2	T	1	1465.6929	431.8482468	1465.7	199082.0418
69	28-Sep-05	3	T	1	6358.9774	1873.593802	6359.0	4438543.718
71	4-Oct-05	1	C	1	.	.	.	.
72	4-Oct-05	2	C	1	.	.	.	.
	4-Oct-05	3	C	1	0	0	0.0	0
	4-Oct-05	1	T	1	0	0	0.0	0
	4-Oct-05	2	T	1	0	0	0.0	0
73	4-Oct-05	3	T	1	2026.725	597.1493815	2026.7	349332.3882
76	25-Oct-05	1	C	1	1288.7547	379.7155904	1288.8	456797.8552
79	25-Oct-05	2	C	1	2577.9703	759.5669755	2578.0	1231258.067
83	25-Oct-05	3	C	1	0	0	0.0	0
74	25-Oct-05	1	T	1	2960.121	872.1629285	2960.1	714301.4385
77	25-Oct-05	2	T	1	1138.9354	335.5731896	1138.9	224498.4639
81	25-Oct-05	3	T	1	.	.	.	.
	1-Nov-05	1	C	1	0	0	0.0	0
85	1-Nov-05	2	C	1	1447.8588	426.5936503	1447.9	413369.2471
85	1-Nov-05	3	C	1	0	0	0.0	0
84	1-Nov-05	1	T	1	5030.1098	1482.059444	5030.1	1956318.466
	1-Nov-05	2	T	1	0	0	0.0	0
86	1-Nov-05	3	T	1	.	.	.	.
89	28-Mar-06	1	C	1	830.90723	244.8165091	830.9	126814.9517
92	28-Mar-06	2	C	1	3955.7417	1165.510233	3955.7	2512840.061
					tot C	tot C	times flux	
sample					leached	leached	conc	total leached
#	date	rep	trt	depth	ug	g/ha	ug/ml	g/ha
	28-Mar-06	3	C	1	0	0	0.0	0
88	28-Mar-06	1	T	1	3496.7345	1030.269461	3496.7	396653.7423
90	28-Mar-06	2	T	1	4446.2205	1310.023729	4446.2	3740117.747
94	28-Mar-06	3	T	1	4987.0026	1469.358451	4987.0	1767638.217
252	6-Apr-06	1	C	1	.	.	.	.
251	6-Apr-06	2	C	1	.	.	.	.
	6-Apr-06	3	C	1	0	0	0.0	0
253	6-Apr-06	1	T	1	.	.	.	.
250	6-Apr-06	2	T	1	.	.	.	.
	6-Apr-06	3	T	1	0	0	0.0	0
96	20-Apr-06	1	C	1	360.44281	106.2000035	360.4	53206.2017

								6
98	20-Apr-06	2	C	1	.	.	.	.
	20-Apr-06	3	C	1	0	0	0.0	0
95	20-Apr-06	1	T	1	.	.	.	.
97	20-Apr-06	2	T	1	.	.	.	.
99	20-Apr-06	3	T	1	9385.6836	2765.375239	9385.7	3791329.45 2
102	27-Apr-06	1	C	1	1190.9018	350.8844528	1190.9	744927.693 2
105	27-Apr-06	2	C	1	2193.318	646.2339478	2193.3	1844997.92 1
109	27-Apr-06	3	C	1	1352.7392	398.567832	1352.7	446395.971 9
100	27-Apr-06	1	T	1	13847.135	4079.886509	13847.1	11648075.9 8
103	27-Apr-06	2	T	1	6030.1389	1776.705618	6030.1	5072494.53 9
107	27-Apr-06	3	T	1	19632.761	5784.549625	19632.8	16514889.1 8
113	8-May-06	1	C	1	1557.0405	458.7626767	1557.0	705576.996 8
116	8-May-06	2	C	1	3638.0688	1071.911839	3638.1	2185628.24 78022.3069 7
120	8-May-06	3	C	1	377.21896	111.1428874	377.2	11797789.7 1
111	8-May-06	1	T	1	14025.113	4132.325644	14025.1	3790233.28 7
114	8-May-06	2	T	1	5430.1612	1599.929627	5430.2	11708377.2 5
118	8-May-06	3	T	1	13918.82	4101.007792	13918.8	88100.3865 2
122	26-May-06	1	C	1	380.4233	112.0870057	380.4	979478.882 2
125	26-May-06	2	C	1	1930.5176	568.8030675	1930.5	69369.5488 9
128	26-May-06	3	C	1	485.44381	143.0299977	485.4	2927601.87 9
121	26-May-06	1	T	1	3842.336	1132.096628	3842.3	502267.269 6
123	26-May-06	2	T	1	1522.0492	448.4529193	1522.0	5561270.42 9
126	26-May-06	3	T	1	8890.698	2619.533881	8890.7	114375.410 4
131	31-May-06	1	C	1	429.88942	126.6615841	429.9	767269.115 2
134	31-May-06	2	C	1	1558.4149	459.1676333	1558.4	24958.8545 9
137	31-May-06	3	C	1	209.67909	61.77934304	209.7	3839959.32 6
129	31-May-06	1	T	1	6044.9081	1781.057201	6044.9	193864.843 7
132	31-May-06	2	T	1	787.05416	231.895746	787.1	10433289.5
135	31-May-06	3	T	1	10454.852	3080.392537	10454.9	

								2
140	5-Jun-06	1	C	1	499.46107	147.1600076	499.5	132885.486 9
142	5-Jun-06	2	C	1	3792.8997	1117.530858	3792.9	1270632.58 5
146	5-Jun-06	3	C	1	141.06839	41.5640509	141.1	5070.81421
138	5-Jun-06	1	T	1	8124.5185	2393.788596	8124.5	5481775.88 4
					tot C	tot C	times flux	
sample					leached	leached	conc	total leached
#	date	rep	trt	depth	ug	g/ha	ug/ml	g/ha
141	5-Jun-06	2	T	1	792.28395	233.4366377	792.3	132592.010 2
144	5-Jun-06	3	T	1	10274.805	3027.343799	10274.8	13184082.2 5
149	8-Jun-06	1	C	1	14222.005	4190.337367	14222.0	11963413.1 8
152	8-Jun-06	2	C	1	4136.9943	1218.914043	4137.0	2587754.51 3
156	8-Jun-06	3	C	1	385.39001	113.5503859	385.4	60749.4564 6
147	8-Jun-06	1	T	1	5316.6004	1566.470369	5316.6	5020537.53 1
150	8-Jun-06	2	T	1	210.71416	62.08431218	210.7	22784.9425 7
154	8-Jun-06	3	T	1	4298.2209	1266.417478	4298.2	4312151.51 1
158	15-Jun-06	1	C	1	789.55784	232.6334239	789.6	221699.652 9
160	15-Jun-06	2	C	1	830.78098	244.7793112	830.8	143195.897 1
162	15-Jun-06	3	C	1	0	0	0.0	0
157	15-Jun-06	1	T	1	1461.2875	430.5502309	1461.3	302246.262 1
159	15-Jun-06	2	T	1	110.80631	32.64770463	110.8	1709.10733 7
161	15-Jun-06	3	T	1	1537.2568	452.9336509	1537.3	204273.076 6
165	28-Jun-06	1	C	1	438.99541	129.3445535	439.0	17461.5147 2
167	28-Jun-06	2	C	1	357.55585	105.3493972	357.6	65105.9274 7
	28-Jun-06	3	C	1	0	0	0.0	0
163	28-Jun-06	1	T	1	10853.009	3197.704453	10853.0	9148632.44 1
166	28-Jun-06	2	T	1	512.30034	150.9429395	512.3	55396.0588 1
168	28-Jun-06	3	T	1	3601.5053	1061.13887	3601.5	1046282.92 6
172	26-Jul-06	1	C	1	14075.81	4147.262709	14075.8	1522045.41 4
175	26-Jul-06	2	C	1	9531.7119	2808.400672	9531.7	4319320.23

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178	26-Jul-06	3	C	1	9793.0521	2885.401337	9793.1	1737011.605
170	26-Jul-06	1	T	1	32528.694	9584.176225	32528.7	39343043.4
173	26-Jul-06	2	T	1	18140.833	5344.971292	18140.8	5361006.206
177	26-Jul-06	3	T	1	17153.959	5054.201222	17154.0	13070164.36
	9-Aug-06	1	C	1	0	0	0.0	0
179	9-Aug-06	2	C	1	1294.5656	381.427683	1294.6	46534.17732
	9-Aug-06	3	C	1	0	0	0.0	0
	9-Aug-06	1	T	1	0	0	0.0	0
	9-Aug-06	2	T	1	0	0	0.0	0
180	9-Aug-06	3	T	1	991.06099	292.003828	991.1	32120.42108
182	16-Aug-06	1	C	1	484.10611	142.6358597	484.1	4279.075792
184	16-Aug-06	2	C	1	1479.3522	435.8727867	1479.4	360466.7946
186	16-Aug-06	3	C	1	2584.0692	761.3639256	2584.1	661625.2514
181	16-Aug-06	1	T	1	2312.5459	681.3629701	2312.5	136272.594
183	16-Aug-06	2	T	1	4091.6799	1205.562728	4091.7	546119.9159
185	16-Aug-06	3	T	1	3708.413	1092.637886	3708.4	590024.4582
188	23-Aug-06	1	C	1	109.73061	32.33076425	109.7	969.9229276
190	23-Aug-06	2	C	1	800.97411	235.9970857	801.0	87082.92462
192	23-Aug-06	3	C	1	681.33471	200.7468208	681.3	107399.5491
187	23-Aug-06	1	T	1	1794.2831	528.6632572	1794.3	195076.7419
189	23-Aug-06	2	T	1	518.62947	152.807739	518.6	30561.54781
191	23-Aug-06	3	T	1	1394.8851	410.9855841	1394.9	151653.6805
					tot C	tot C	times flux	
sample					leached	leached	conc	total leached
#	date	rep	trt	depth	ug	g/ha	ug/ml	g/ha
194	30-Aug-06	1	C	1	155.60686	45.84763136	155.6	1623.923103
196	30-Aug-06	2	C	1	1019.9027	300.5016833	1019.9	110885.1211
198	30-Aug-06	3	C	1	769.68525	226.7782123	769.7	140148.9352
193	30-Aug-06	1	T	1	1851.7451	545.5937194	1851.7	154948.6163
195	30-Aug-06	2	T	1	895.44327	263.8312524	895.4	97353.7321

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197	30-Aug-06	3	T	1	1128.2958	332.4383484	1128.3	66487.66968
	20-Sep-06	1	C	1	0	0	0.0	0
200	20-Sep-06	2	C	1	4649.2951	1369.857134	4649.3	1010954.565
202	20-Sep-06	3	C	1	38.751119	11.41753653	38.8	228.3507306
199	20-Sep-06	1	T	1	2917.0757	859.4801687	2917.1	317148.1822
	20-Sep-06	2	T	1	0	0	0.0	0
201	20-Sep-06	3	T	1	74.649951	21.99468216	74.6	327.7207641
	27-Sep-06	1	C	1	0	0	0.0	0
205	27-Sep-06	2	C	1	3040.7388	895.9159725	3040.7	1221133.47
207	27-Sep-06	3	C	1	695.01124	204.7764404	695.0	109555.3956
203	27-Sep-06	1	T	1	3580.4622	1054.938774	3580.5	778544.815
204	27-Sep-06	2	T	1	910.98912	268.4116447	911.0	53682.32894
206	27-Sep-06	3	T	1	1390.3205	409.640688	1390.3	81928.13761
	11-Oct-06	1	C	1	0	0	0.0	0
209	11-Oct-06	2	C	1	1442.1172	424.9019368	1442.1	262589.3969
210	11-Oct-06	3	C	1	302.06396	88.99939752	302.1	8899.939752
208	11-Oct-06	1	T	1	302.30783	89.07125342	302.3	5385.247982
	11-Oct-06	2	T	1	0	0	0.0	0
	11-Oct-06	3	T	1	0	0	0.0	0
	17-Oct-06	1	C	1	0	0	0.0	0
212	17-Oct-06	2	C	1	2195.2729	646.8099374	2195.3	419779.6494
213	17-Oct-06	3	C	1	853.49826	251.4726753	853.5	62868.16882
211	17-Oct-06	1	T	1	270.67429	79.75082114	270.7	3317.634159
	17-Oct-06	2	T	1	0	0	0.0	0
	17-Oct-06	3	T	1	0	0	0.0	0
216	25-Oct-06	1	C	1	3563.5492	1049.95556	3563.5	1900419.563
219	25-Oct-06	2	C	1	5729.4449	1688.109865	5729.4	7385480.658
223	25-Oct-06	3	C	1	8096.3388	2385.485799	8096.3	6810561.956
214	25-Oct-06	1	T	1	15106.247	4450.868403	15106.2	35050588.68
217	25-Oct-06	2	T	1	8704.3335	2564.623908	8704.3	10732951.05
221	25-Oct-06	3	T	1	9894.3053	2915.234339	9894.3	15815146.29

227	9-Nov-06	1	C	1	791.26754	233.137167	791.3	86027.6146 2
230	9-Nov-06	2	C	1	1517.396	447.0819231	1517.4	409974.123 5
232	9-Nov-06	3	C	1	1524.607	449.2065265	1524.6	615862.147 9
225	9-Nov-06	1	T	1	5216.3662	1536.937603	5216.4	3330543.78 6
228	9-Nov-06	2	T	1	1389.2175	409.3157149	1389.2	220211.854 6
231	9-Nov-06	3	T	1	5146.8071	1516.442863	5146.8	4368871.89
234	16-Nov-06	1	C	1	.	.	.	.
236	16-Nov-06	2	C	1	517.26709	152.4063312	517.3	56237.9362 2
					tot C	tot C	times flux	
sample					leached	leached	conc	total leached
#	date	rep	trt	depth	ug	g/ha	ug/ml	g/ha
238	16-Nov-06	3	C	1	255.11613	75.16680306	255.1	10147.5184 1
233	16-Nov-06	1	T	1	4222.3927	1244.075623	4222.4	1629739.06 6
	16-Nov-06	2	T	1	0	0		
237	16-Nov-06	3	T	1	1614.0145	475.5493531	1614.0	282951.865 1
241	13-Dec-06	1	C	1	3576.9014	1053.889629	3576.9	1417481.55 1
244	13-Dec-06	2	C	1	5431.8192	1600.418138	5431.8	4468367.44 3
248	13-Dec-06	3	C	1	639.17971	188.3263724	639.2	182488.254 8
239	13-Dec-06	1	T	1	3874.3971	1141.54306	3874.4	1739711.62 3
242	13-Dec-06	2	T	1	1090.5406	321.31426	1090.5	472331.962 2
246	13-Dec-06	3	T	1	4248.5063	1251.769673	4248.5	1930228.83 6
2	26-May-05	1	T	2	7908.577	2330.164114	7908.6	1675387.99 8
	26-May-05	2	T	2	0	0	0.0	0
	26-May-05	3	T	2	0	0	0.0	0
7	8-Jun-05	1	T	2	.	.	.	.
10	8-Jun-05	2	T	2	.	.	.	.
13	8-Jun-05	3	T	2	730.87828	215.344218	730.9	158278.000 2
17	22-Jun-05	1	C	2	.	.	.	.
	22-Jun-05	2	C	2	0	0	0.0	0
24	22-Jun-05	3	C	2	4161.7319	1226.202689	4161.7	1639432.99 5
15	22-Jun-05	1	T	2	5681.2021	1673.895728	5681.2	4778972.30 3
19	22-Jun-05	2	T	2	4891.585	1441.244837	4891.6	4114754.01

22	22-Jun-05	3	T	2	.	.	.	.
26	30-Jun-05	1	T	2	.	.	.	.
	30-Jun-05	2	T	2	0	0	0.0	0
31	30-Jun-05	3	T	2	.	.	.	.
	17-Jul-05	1	T	2	0	0	0.0	0
	17-Jul-05	2	T	2	0	0	0.0	0
40	17-Jul-05	3	T	2	3133.9846	923.3897018	3134.0	162516.5875
46	17-Aug-05	1	T	2	3010.2223	886.9246481	3010.2	2532169.87
49	17-Aug-05	2	T	2	1588.7369	468.1016234	1588.7	446100.8471
	17-Aug-05	3	T	2	0	0	0.0	0
55	24-Aug-05	1	C	2	2895.6107	853.1557826	2895.6	598915.3594
57	24-Aug-05	2	C	2	5359.8707	1579.219429	5359.9	844882.3948
	24-Aug-05	3	C	2	0	0	0.0	0
53	24-Aug-05	1	T	2	8067.433	2376.969072	8067.4	4211989.196
	24-Aug-05	2	T	2	0	0	0.0	0
	24-Aug-05	3	T	2	0	0	0.0	0
	20-Sep-05	1	T	2	0	0	0.0	0
	20-Sep-05	2	T	2	0	0	0.0	0
63	20-Sep-05	3	T	2	2544.5685	749.7255464	2544.6	153693.737
65	28-Sep-05	1	T	2	875.27385	257.8885829	875.3	159375.1442
	28-Sep-05	2	T	2	0	0	0.0	0
70	28-Sep-05	3	T	2	2469.5676	727.6274745	2469.6	149163.6323
	25-Oct-05	1	C	2	0	0	0.0	0
					tot C	tot C	times flux	
sample					leached	leached	conc	total leached
#	date	rep	trt	depth	ug	g/ha	ug/ml	g/ha
80	25-Oct-05	2	C	2	592.76441	174.6506794	592.8	57984.02554
	25-Oct-05	3	C	2	0	0	0.0	0
75	25-Oct-05	1	T	2	2361.2832	695.7228024	2361.3	1243952.371
78	25-Oct-05	2	T	2	239.90013	70.68359842	239.9	5230.586283
82	25-Oct-05	3	T	2	.	.	.	.
	1-Nov-05	1	T	2	0	0	0.0	0
	1-Nov-05	2	T	2	0	0	0.0	0
87	1-Nov-05	3	T	2	.	.	.	.
	28-Mar-06	1	C	2	0	0	0.0	0
93	28-Mar-06	2	C	2	1020.15	300.5745308	1020.1	175234.9515
	28-Mar-06	3	C	2	0	0	0.0	0
	28-Mar-06	1	T	2	0	0	0.0	0

91	28-Mar-06	2	T	2	3514.5384	1035.515151	3514.5	212280.606
	28-Mar-06	3	T	2	0	0	0.0	0
	27-Apr-06	1	C	2	0	0	0.0	0
106	27-Apr-06	2	C	2	1532.4871	451.5283011	1532.5	581116.923 5
110	27-Apr-06	3	C	2	2712.8541	799.3088222	2712.9	225405.087 9
101	27-Apr-06	1	T	2	6589.1945	1941.424429	6589.2	5542766.74 4
104	27-Apr-06	2	T	2	2906.5652	856.3833911	2906.6	2451825.64 9
108	27-Apr-06	3	T	2	7780.2607	2292.357313	7780.3	6544680.12 9
	8-May-06	1	C	2	0	0	0.0	0
117	8-May-06	2	C	2	797.02776	234.8343427	797.0	86184.2037 5
	8-May-06	3	C	2	0	0	0.0	0
112	8-May-06	1	T	2	2345.1041	690.9558346	2345.1	1826887.22 7
115	8-May-06	2	T	2	1189.3119	350.4159906	1189.3	480420.323 1
119	8-May-06	3	T	2	2021.2151	595.5259455	2021.2	1382215.71 9
	26-May-06	1	T	2	0	0	0.0	0
124	26-May-06	2	T	2	273.66871	80.63308983	273.7	60636.0835 5
127	26-May-06	3	T	2	1751.124	515.9469743	1751.1	836350.045 4
130	31-May-06	1	T	2	385.54075	113.594799	385.5	51231.2543 6
133	31-May-06	2	T	2	86.282513	25.42207229	86.3	8897.72530 3
136	31-May-06	3	T	2	2087.3636	615.0157834	2087.4	945894.274 9
	5-Jun-06	1	C	2	0	0	0.0	0
143	5-Jun-06	2	C	2	999.56581	294.5096666	999.6	60374.4816 5
	5-Jun-06	3	C	2	0	0	0.0	0
139	5-Jun-06	1	T	2	461.4645	135.9647908	461.5	174986.685 7
	5-Jun-06	2	T	2	0	0	0.0	0
145	5-Jun-06	3	T	2	4390.5846	1293.631281	4390.6	4663540.76 8
145	8-Jun-06	1	C	2	0	0	0.0	0
153	8-Jun-06	2	C	2	868.87915	256.0044641	868.9	286724.999 8
	8-Jun-06	3	C	2	0	0	0.0	0
148	8-Jun-06	1	T	2	601.46094	177.2130054	601.5	505943.130 3
151	8-Jun-06	2	T	2	116.97556	34.4653991	117.0	4652.82887 9
155	8-Jun-06	3	T	2	1296.6138	382.0311632	1296.6	811052.159

								5
					tot C	tot C	times flux	
sample					leached	leached	conc	total leached
#	date	rep	trt	depth	ug	g/ha	ug/ml	g/ha
164	28-Jun-06	1	T	2	679.71953	200.2709288	679.7	224303.440 3
	28-Jun-06	2	T	2	0	0	0.0	0
169	28-Jun-06	3	T	2	798.61546	235.3021399	798.6	106121.265 1
	26-Jul-06	1	C	2	0	0	0.0	0
176	26-Jul-06	2	C	2	10588.277	3119.704369	10588.3	1460021.64 5
	26-Jul-06	3	C	2	0	0	0.0	0
171	26-Jul-06	1	T	2	9633.0019	2838.244525	9633.0	581840.127 6
174	26-Jul-06	2	T	2	8608.5714	2536.408785	8608.6	596056.064 4
	26-Jul-06	3	T	2	0	0	0.0	0
	25-Oct-06	1	C	2	0	0	0.0	0
	25-Oct-06	2	C	2	0	0	0.0	0
224	25-Oct-06	3	C	2	7292.5327	2148.654304	7292.5	2945805.05 1
215	25-Oct-06	1	T	2	12584.912	3707.988183	12584.9	8406009.21
218	25-Oct-06	2	T	2	6974.7577	2055.025848	6974.8	5030703.27 6
222	25-Oct-06	3	T	2	26730.43	7875.789728	26730.4	35055140.0 8
226	9-Nov-06	1	T	2	.	.	.	.
229	9-Nov-06	2	T	2	88.196471	25.98599627	88.2	1560.45907 6
	9-Nov-06	3	T	2	0	0	0.0	0
	16-Nov-06	1	T	2	0	0	0.0	0
235	16-Nov-06	2	T	2	131.90682	38.86470913	131.9	5246.73573 3
	16-Nov-06	3	T	2	0	0	0.0	0
	13-Dec-06	1	C	2	0	0	0.0	0
245	13-Dec-06	2	C	2	7919.6335	2333.421787	7919.6	3003113.83 9
249	13-Dec-06	3	C	2	.	.	.	.
240	13-Dec-06	1	T	2	114.08689	33.61428747	114.1	966.410764 8
243	13-Dec-06	2	T	2	1495.1088	440.5152734	1495.1	758567.300 8
247	13-Dec-06	3	T	2	336.17182	99.04885818	336.2	4295.74897 9

sample	date	rep	trt	depth	times flux			
					delta	% BC	total BC	% of applied BC
3	26-May-05	1	C	1	.	.	.	.
4	26-May-05	2	C	1	-17328.257	0	0	0
	26-May-05	3	C	1	0	0	0	0
1	26-May-05	1	T	1	-12727.722	0.0142759	123801.35	533.62653
	26-May-05	2	T	1	0	0	0	0
5	26-May-05	3	T	1	-13245.558	0.0201739	77835.45	335.49763
8	8-Jun-05	1	C	1	-9971.7407	0	0	0
11	8-Jun-05	2	C	1	.	.	.	.
	8-Jun-05	3	C	1	0	0	0	0
6	8-Jun-05	1	T	1	.	.	.	.
9	8-Jun-05	2	T	1	.	.	.	.
12	8-Jun-05	3	T	1	0	0	0	0
16	22-Jun-05	1	C	1	-45501.828	0	0	0
20	22-Jun-05	2	C	1	-43320.237	0	0	0
23	22-Jun-05	3	C	1	-61410.096	0	0	0
14	22-Jun-05	1	T	1	-29827.251	0.0044189	214463.68	924.4124
18	22-Jun-05	2	T	1	-52202.337	0	0	0
21	22-Jun-05	3	T	1	.	.	.	.
27	30-Jun-05	1	C	1	.	.	.	.
29	30-Jun-05	2	C	1	.	.	.	.
	30-Jun-05	3	C	1	0	0	0	0
25	30-Jun-05	1	T	1	.	.	.	.
28	30-Jun-05	2	T	1	.	.	.	.
30	30-Jun-05	3	T	1	.	.	.	.
33	11-Jul-05	1	C	1	-6915.9784	0	0	0
34	11-Jul-05	2	C	1	.	.	.	.
	11-Jul-05	3	C	1	0	0	0	0
32	11-Jul-05	1	T	1	-3540.1872	0.5681818	10246.334	44.165233
	11-Jul-05	2	T	1	0	0	0	0
	11-Jul-05	3	T	1	0	0	0	0
36	17-Jul-05	1	C	1	.	.	.	.
38	17-Jul-05	2	C	1	.	.	.	.
	17-Jul-05	3	C	1	0	0	0	0
35	17-Jul-05	1	T	1	-1573.7999	1.3513514	5865.5697	25.282628
37	17-Jul-05	2	T	1	.	.	.	.
39	17-Jul-05	3	T	1	.	.	.	.
42	24-Jul-05	1	C	1	.	.	.	.
	24-Jul-05	2	C	1	0	0	0	0
	24-Jul-05	3	C	1	0	0	0	0
41	24-Jul-05	1	T	1	-4258.3994	0.3546099	52809.103	227.62545
43	24-Jul-05	2	T	1	-3662.163	0.6711409	41403.167	178.46193
44	24-Jul-05	3	T	1	-9416.7395	0.1196172	1478704.3	6373.7253

sample #	date	rep	trt	depth	times flux			
					delta	% BC	total BC g/ha	% of applied BC
47	17-Aug-05	1	C	1	-23820.795	0	0	0
50	17-Aug-05	2	C	1	-5515.6993	0	0	0
	17-Aug-05	3	C	1	0	0	0	0
45	17-Aug-05	1	T	1	-13931.575	0.0123546	152983.17	659.4102
48	17-Aug-05	2	T	1	-53576.022	0.009497	2061581.4	8886.1267
51	17-Aug-05	3	T	1	-55776.704	0.0132747	2319236.6	9996.7095
54	24-Aug-05	1	C	1	-8802.2177	0	0	0
	24-Aug-05	2	C	1	0	0	0	0
	24-Aug-05	3	C	1	0	0	0	0
52	24-Aug-05	1	T	1	-6254.7162	0	0	0
56	24-Aug-05	2	T	1	-9020.0102	0	0	0
58	24-Aug-05	3	T	1	-11645.228	0	0	0
59	20-Sep-05	1	C	1				
61	20-Sep-05	2	C	1	-18906.385	0	0	0
	20-Sep-05	3	C	1	0	0	0	0
	20-Sep-05	1	T	1	0	0	0	0
60	20-Sep-05	2	T	1	-9366.9709	0	0	0
62	20-Sep-05	3	T	1	-11771.394	0	0	0
66	28-Sep-05	1	C	1	-6957.6549	0	0	0
68	28-Sep-05	2	C	1	-17879.114	0	0	0
	28-Sep-05	3	C	1	0	0	0	0
64	28-Sep-05	1	T	1	-246.39955	0	0	0
67	28-Sep-05	2	T	1	-7346.1452	0	0	0
69	28-Sep-05	3	T	1	-41026.094	0	0	0
71	4-Oct-05	1	C	1	.	.	.	.
72	4-Oct-05	2	C	1	.	.	.	.
	4-Oct-05	3	C	1	0	0	0	0
	4-Oct-05	1	T	1	0	0	0	0
	4-Oct-05	2	T	1	0	0	0	0
73	4-Oct-05	3	T	1	-11399.896	0.0107794	22028.67	94.951164
76	25-Oct-05	1	C	1	-23714.792	0	0	0
79	25-Oct-05	2	C	1	-31886.66	0	0	0
83	25-Oct-05	3	C	1	0	0	0	0
74	25-Oct-05	1	T	1	-13014.693	0	0	0
77	25-Oct-05	2	T	1	-13177.272	0.000425	638.3771	2.7516254
81	25-Oct-05	3	T	1	.	.	.	.
	1-Nov-05	1	C	1	0	0	0	0
85	1-Nov-05	2	C	1	-19611.763	0	0	0
85	1-Nov-05	3	C	1	0	0	0	0
84	1-Nov-05	1	T	1	-21762.717	0	0	0
	1-Nov-05	2	T	1	0	0	0	0
86	1-Nov-05	3	T	1	.	.	.	.
89	28-Mar-06	1	C	1	-9313.3475	0	0	0
92	28-Mar-06	2	C	1	-36777.955	0	0	0

sample	date	rep	trt	depth	times flux			
					delta	% BC	total BC	% of applied BC
	28-Mar-06	3	C	1	0	0	0	0
88	28-Mar-06	1	T	1	-6375.2762	0	0	0
90	28-Mar-06	2	T	1	-64082.353	0.016057	1714569.6	7390.3863
94	28-Mar-06	3	T	1	-20205.914	0	0	0
252	6-Apr-06	1	C	1	.	.	.	.
251	6-Apr-06	2	C	1	.	.	.	.
	6-Apr-06	3	C	1	0	0	0	0
253	6-Apr-06	1	T	1	.	.	.	.
250	6-Apr-06	2	T	1	.	.	.	.
	6-Apr-06	3	T	1	0	0	0	0
96	20-Apr-06	1	C	1	-9158.7566	0	0	0
98	20-Apr-06	2	C	1	.	.	.	.
	20-Apr-06	3	C	1	0	0	0	0
95	20-Apr-06	1	T	1	.	.	.	.
97	20-Apr-06	2	T	1	.	.	.	.
99	20-Apr-06	3	T	1	-21366.719	0	0	0
102	27-Apr-06	1	C	1	-41343.048	0	0	0
105	27-Apr-06	2	C	1	-53893.824	0	0	0
109	27-Apr-06	3	C	1	-22035.756	0	0	0
100	27-Apr-06	1	T	1	-47073.181	0	0	0
103	27-Apr-06	2	T	1	-46976.719	0	0	0
107	27-Apr-06	3	T	1	-42712.679	0	0	0
113	8-May-06	1	C	1	-26981.029	0	0	0
116	8-May-06	2	C	1	-33915.351	0	0	0
120	8-May-06	3	C	1	-14350.754	0	0	0
111	8-May-06	1	T	1	-44656.524	0	0	0
114	8-May-06	2	T	1	-40756.45	0.0019786	177656.7	765.76164
118	8-May-06	3	T	1	-45157.122	0	0	0
122	26-May-06	1	C	1	-13392.577	0	0	0
125	26-May-06	2	C	1	-30280.312	0	0	0
128	26-May-06	3	C	1	-10237.326	0	0	0
121	26-May-06	1	T	1	-42851.63	0	0	0
123	26-May-06	2	T	1	-19557.402	0	0	0
126	26-May-06	3	T	1	-33596.724	0	0	0
131	31-May-06	1	C	1	-16678.707	0	0	0
134	31-May-06	2	C	1	-31825.499	0	0	0
137	31-May-06	3	C	1	-8239.1944	0	0	0
129	31-May-06	1	T	1	-37295.573	0	0	0
132	31-May-06	2	T	1	-15668.163	0	0	0
135	31-May-06	3	T	1	-54254.153	0	0	0
140	5-Jun-06	1	C	1	-16348.498	0	0	0
142	5-Jun-06	2	C	1	-19480.894	0	0	0
146	5-Jun-06	3	C	1	-2550.6308	0	0	0
138	5-Jun-06	1	T	1	-38158.258	0	0	0

sample #	date	rep	trt	depth	times flux			
					delta	% BC	total BC g/ha	% of applied BC
141	5-Jun-06	2	T	1	-9639.2088	0	0	0
144	5-Jun-06	3	T	1	-74739.468	0	0	0
149	8-Jun-06	1	C	1	-63719.776	0	0	0
152	8-Jun-06	2	C	1	-35254.995	0	0	0
156	8-Jun-06	3	C	1	-12026.074	0	0	0
147	8-Jun-06	1	T	1	-55185.096	0	0	0
150	8-Jun-06	2	T	1	-6966.6509	0.0530609	4436.9899	19.124956
154	8-Jun-06	3	T	1	-58658.659	0	0	0
158	15-Jun-06	1	C	1	-18285.725	0	0	0
160	15-Jun-06	2	C	1	-10320.028	0	0	0
162	15-Jun-06	3	C	1	0	0	0	0
157	15-Jun-06	1	T	1	-12766.949	0	0	0
159	15-Jun-06	2	T	1	-1158.1384	0.7665409	685.83772	2.9561971
161	15-Jun-06	3	T	1	-7365.4679	0	0	0
165	28-Jun-06	1	C	1	-2389.2204	0	0	0
167	28-Jun-06	2	C	1	-11285.208	0	0	0
	28-Jun-06	3	C	1	0	0	0	0
163	28-Jun-06	1	T	1	-48103.847	0	0	0
166	28-Jun-06	2	T	1	-7238.6136	0.0377857	7681.9763	33.111967
168	28-Jun-06	3	T	1	-16892.827	0	0	0
172	26-Jul-06	1	C	1	-4722.7677	0	0	0
175	26-Jul-06	2	C	1	-20068.524	0	0	0
178	26-Jul-06	3	C	1	-7988.7201	0	0	0
170	26-Jul-06	1	T	1	-48347.373	0	0	0
173	26-Jul-06	2	T	1	-12975.794	0	0	0
177	26-Jul-06	3	T	1	-37518.885	0.0194738	6582019.9	28370.775
	9-Aug-06	1	C	1	0	0	0	0
179	9-Aug-06	2	C	1	-2058.2892	0	0	0
	9-Aug-06	3	C	1	0	0	0	0
	9-Aug-06	1	T	1	0	0	0	0
	9-Aug-06	2	T	1	0	0	0	0
180	9-Aug-06	3	T	1	-1785.4949	0	0	0
182	16-Aug-06	1	C	1	-536.82211	0	0	0
184	16-Aug-06	2	C	1	-13847.787	0	0	0
186	16-Aug-06	3	C	1	-11476.692	0	0	0
181	16-Aug-06	1	T	1	-2794.9459	0	0	0
183	16-Aug-06	2	T	1	-6016.8935	0	0	0
185	16-Aug-06	3	T	1	-7497.9463	0.0892507	284364.46	1225.7089
188	23-Aug-06	1	C	1	-443.43385	0	0	0
190	23-Aug-06	2	C	1	-5922.6932	0	0	0
192	23-Aug-06	3	C	1	-9841.9466	0	0	0
187	23-Aug-06	1	T	1	-5680.7722	0.0118594	8536.7646	36.796399
189	23-Aug-06	2	T	1	-2470.6971	0	0	0
191	23-Aug-06	3	T	1	-5926.061	0.1510672	84537.509	364.38581

sample	date	rep	trt	depth	times flux			
					delta	% BC	total BC	% of applied BC
#	date	rep	trt	depth			g/ha	applied BC
194	30-Aug-06	1	C	1	-558.19727	0	0	0
196	30-Aug-06	2	C	1	-7727.9728	0	0	0
198	30-Aug-06	3	C	1	-11400.677	0	0	0
193	30-Aug-06	1	T	1	-4204.4442	0	0	0
195	30-Aug-06	2	T	1	-7142.7674	0	0	0
197	30-Aug-06	3	T	1	-3384.0174	0.2936495	39048.148	168.31098
	20-Sep-06	1	C	1	0	0	0	0
200	20-Sep-06	2	C	1	-12597.778	0	0	0
202	20-Sep-06	3	C	1	-358.30126	0	0	0
199	20-Sep-06	1	T	1	-5804.1932	0	0	0
	20-Sep-06	2	T	1	0	0	0	0
201	20-Sep-06	3	T	1	-310.66639	1.8080131	88.285993	0.3805431
	27-Sep-06	1	C	1	0	0	0	0
205	27-Sep-06	2	C	1	-23526.743	0	0	0
207	27-Sep-06	3	C	1	-9042.1504	0	0	0
203	27-Sep-06	1	T	1	-10621.824	0	0	0
204	27-Sep-06	2	T	1	-3643.8854	0.0414939	4454.9821	19.202509
206	27-Sep-06	3	T	1	-2621.0539	0	0	0
	11-Oct-06	1	C	1	0	0	0	0
209	11-Oct-06	2	C	1	-10509.465	0	0	0
210	11-Oct-06	3	C	1	-1825.2439	0	0	0
208	11-Oct-06	1	T	1	-1107.124	0.1009841	328.79628	1.4172253
	11-Oct-06	2	T	1	0	0	0	0
	11-Oct-06	3	T	1	0	0	0	0
	17-Oct-06	1	C	1	0	0	0	0
212	17-Oct-06	2	C	1	-10323.143	0	0	0
213	17-Oct-06	3	C	1	-4379.6687	0	0	0
211	17-Oct-06	1	T	1	-814.41551	0.5692594	785.65534	3.3864454
	17-Oct-06	2	T	1	0	0	0	0
	17-Oct-06	3	T	1	0	0	0	0
216	25-Oct-06	1	C	1	-22545.094	0	0	0
219	25-Oct-06	2	C	1	-78411.49	0	0	0
223	25-Oct-06	3	C	1	-47797.178	0	0	0
214	25-Oct-06	1	T	1	-128210.04	0.0029698	8197372.8	35333.503
217	25-Oct-06	2	T	1	-71752.936	0	0	0
221	25-Oct-06	3	T	1	-85768.854	0.0101155	8678802.8	37408.633
227	9-Nov-06	1	C	1	-5773.4708	0	0	0
230	9-Nov-06	2	C	1	-15136.851	0	0	0
232	9-Nov-06	3	C	1	-29415.769	0	0	0
225	9-Nov-06	1	T	1	-36092.319	0.0035377	255328.78	1100.5551
228	9-Nov-06	2	T	1	-10991.058	0.0592615	70209.463	302.62699
231	9-Nov-06	3	T	1	-52462.213	0.021939	2761400.5	11902.588
234	16-Nov-06	1	C	1	.	.	.	.
236	16-Nov-06	2	C	1	-5599.1353	0	0	0

sample	date	rep	trt	depth	times flux			
					delta	% BC	total BC	% of applied BC
238	16-Nov-06	3	C	1	-2005.3842	0	0	0
233	16-Nov-06	1	T	1	-19964.176	0.0012482	26648.007	114.8621
	16-Nov-06	2	T	1				
237	16-Nov-06	3	T	1	-10921.569	0.042162	70982.384	305.95855
241	13-Dec-06	1	C	1	-27635.423	0	0	0
244	13-Dec-06	2	C	1	-46162.388	0	0	0
248	13-Dec-06	3	C	1	-17965.666	0	0	0
239	13-Dec-06	1	T	1	-23005.142	0	0	0
242	13-Dec-06	2	T	1	-26747.9	0.00921	63947.874	275.63739
246	13-Dec-06	3	T	1	-27063.56	0.0395069	1175888.3	5068.4842
2	26-May-05	1	T	2	-14618.269	0.0557611	671699.84	2895.2579
	26-May-05	2	T	2	0	0	0	0
	26-May-05	3	T	2	0	0	0	0
7	8-Jun-05	1	T	2	.	.	.	.
10	8-Jun-05	2	T	2	.	.	.	.
13	8-Jun-05	3	T	2	-14156.143	0.0442482	51475.843	221.87863
17	22-Jun-05	1	C	2	.	.	.	.
	22-Jun-05	2	C	2	0	0	0	0
24	22-Jun-05	3	C	2	-19596.724	0	0	0
15	22-Jun-05	1	T	2	-52670.906	0.0093833	1280250.3	5518.3202
19	22-Jun-05	2	T	2	-57514.754	0.0135822	1595583.9	6877.5168
22	22-Jun-05	3	T	2	.	.	.	.
26	30-Jun-05	1	T	2	.	.	.	.
	30-Jun-05	2	T	2	0	0	0	0
31	30-Jun-05	3	T	2	.	.	.	.
	17-Jul-05	1	T	2	0	0	0	0
	17-Jul-05	2	T	2	0	0	0	0
40	17-Jul-05	3	T	2	-5667.4231	0.5681818	162516.59	700.50253
46	17-Aug-05	1	T	2	-42424.683	0.0350263	2532169.9	10914.525
49	17-Aug-05	2	T	2	-12204.929	0.1049318	446100.85	1922.8485
	17-Aug-05	3	T	2	0	0	0	0
55	24-Aug-05	1	C	2	-21124.163	0	0	0
57	24-Aug-05	2	C	2	-18083.777	0	0	0
	24-Aug-05	3	C	2	0	0	0	0
53	24-Aug-05	1	T	2	-32366.393	0.0564334	4211989.2	18155.126
	24-Aug-05	2	T	2	0	0	0	0
	24-Aug-05	3	T	2	0	0	0	0
	20-Sep-05	1	T	2	0	0	0	0
	20-Sep-05	2	T	2	0	0	0	0
63	20-Sep-05	3	T	2	-5664.3978	0.4878049	153693.74	662.473
65	28-Sep-05	1	T	2	-10350.115	0	0	0
	28-Sep-05	2	T	2	0	0	0	0
70	28-Sep-05	3	T	2	-3341.477	0	0	0
	25-Oct-05	1	C	2	0	0	0	0

sample #	date	rep	trt	depth	times flux			
					delta	% BC	total BC g/ha	% of applied BC
80	25-Oct-05	2	C	2	-6537.6056	0	0	0
	25-Oct-05	3	C	2	0	0	0	0
75	25-Oct-05	1	T	2	-29797.971	0	0	0
78	25-Oct-05	2	T	2	-1614.5726	0.3152168	1220.0888	5.2590036
82	25-Oct-05	3	T	2	.	.	.	.
	1-Nov-05	1	T	2	0	0	0	0
	1-Nov-05	2	T	2	0	0	0	0
87	1-Nov-05	3	T	2	.	.	.	.
	28-Mar-06	1	C	2	0	0	0	0
93	28-Mar-06	2	C	2	-16741.56	0	0	0
	28-Mar-06	3	C	2	0	0	0	0
	28-Mar-06	1	T	2	0	0	0	0
91	28-Mar-06	2	T	2	-6963.8777	0.4878049	212280.61	915.00261
	28-Mar-06	3	T	2	0	0	0	0
	27-Apr-06	1	C	2	0	0	0	0
106	27-Apr-06	2	C	2	-27408.583	0	0	0
110	27-Apr-06	3	C	2	-8066.2647	0	0	0
101	27-Apr-06	1	T	2	-48924.33	0	0	0
104	27-Apr-06	2	T	2	-53369.789	0	0	0
108	27-Apr-06	3	T	2	-51223.77	0	0	0
	8-May-06	1	C	2	0	0	0	0
117	8-May-06	2	C	2	-7101.5511	0	0	0
	8-May-06	3	C	2	0	0	0	0
112	8-May-06	1	T	2	-47858.164	0	0	0
115	8-May-06	2	T	2	-29722.226	0.0179575	118278.02	509.81905
119	8-May-06	3	T	2	-44839.294	0	0	0
	26-May-06	1	T	2	0	0	0	0
124	26-May-06	2	T	2	-17723.124	0.069861	31855.44	137.30793
127	26-May-06	3	T	2	-29833.402	0.0035659	48343.836	208.3786
130	31-May-06	1	T	2	-9314.571	0.057966	13393.227	57.729425
133	31-May-06	2	T	2	-7260.7769	0.0770716	2400.1653	10.34554
136	31-May-06	3	T	2	-27246.773	0	0	0
	5-Jun-06	1	C	2	0	0	0	0
143	5-Jun-06	2	C	2	-3642.0168	0	0	0
	5-Jun-06	3	C	2	0	0	0	0
139	5-Jun-06	1	T	2	-22171.556	0	0	0
	5-Jun-06	2	T	2	0	0	0	0
145	5-Jun-06	3	T	2	-63000.822	0	0	0
145	8-Jun-06	1	C	2	0	0	0	0
153	8-Jun-06	2	C	2	-21745.779	0	0	0
	8-Jun-06	3	C	2	0	0	0	0
148	8-Jun-06	1	T	2	-55251.243	0	0	0
151	8-Jun-06	2	T	2	-2858.6309	0.1387131	871.30136	3.7556093
155	8-Jun-06	3	T	2	-38340.074	0	0	0

sample	date	rep	trt	depth	times flux			
					delta	% BC	total BC	% of
#						g/ha	applied BC	
164	28-Jun-06	1	T	2	-23086.803	0.01138	28588.927	123.22813
	28-Jun-06	2	T	2	0	0	0	0
169	28-Jun-06	3	T	2	-8696.8355	0	0	0
	26-Jul-06	1	C	2	0	0	0	0
176	26-Jul-06	2	C	2	-6570.5169	0	0	0
	26-Jul-06	3	C	2	0	0	0	0
171	26-Jul-06	1	T	2	-2887.0512	0.0014403	1717.9159	7.40481
174	26-Jul-06	2	T	2	-5821.639	0.3092252	433141.49	1866.9892
	26-Jul-06	3	T	2	0	0	0	0
	25-Oct-06	1	C	2	0	0	0	0
	25-Oct-06	2	C	2	0	0	0	0
224	25-Oct-06	3	C	2	-17834.481	0	0	0
215	25-Oct-06	1	T	2	-28222.11	0	0	0
218	25-Oct-06	2	T	2	-19141.188	0	0	0
222	25-Oct-06	3	T	2	-61972.568	0.0013008	2029698	8748.6981
226	9-Nov-06	1	T	2	.	.	.	.
229	9-Nov-06	2	T	2	-1261.1287	0.8423481	789.32708	3.4022719
	9-Nov-06	3	T	2	0	0	0	0
	16-Nov-06	1	T	2	0	0	0	0
235	16-Nov-06	2	T	2	-2890.1443	0.3937758	2789.1506	12.022201
	16-Nov-06	3	T	2	0	0	0	0
	13-Dec-06	1	C	2	0	0	0	0
245	13-Dec-06	2	C	2	-18742.535	0	0	0
249	13-Dec-06	3	C	2	.	.	.	.
240	13-Dec-06	1	T	2	-606.76129	1.5971045	443.74445	1.9126916
243	13-Dec-06	2	T	2	-36780.85	0.0277027	361867.37	1559.7732
247	13-Dec-06	3	T	2	-835.56239	0.7611246	1418.0255	6.112179

Table A2. Calculations for POC samples. Depth 1 = 15 cm, depth 2=30cm. Trt C=control, trt T= 23.3 t biochar ha-1.

sample #	date	rep	trt	depth	weight filter mg	total weight (mg)	mg material	minus ug N in filter	Delta Air
8	8-Jun-05	1	C	1	10.24	10.59	0.35	5.276194	10.977188
16	22-Jun-05	1	C	1	10.14	10.55	0.41	2.1234894	5.5728191
33	11-Jul-05	1	C	1					
47	17-Aug-05	1	C	1	10.23	11.07	0.84	5.1573416	6.0215438
54	24-Aug-05	1	C	1	9.96	12.33	2.37	9.8558434	5.7277299
59	20-Sep-05	1	C	1	10.02	12.63	2.61	11.61562	6.5961535
66	28-Sep-05	1	C	1	10.14	12.45	2.31	12.579887	7.8417681
76	25-Oct-05	1	C	1	9.65	10.25	0.6	5.8657643	5.0106129
89	28-Mar-06	1	C	1	9.91	10.49	0.58	5.7085032	6.9269096
252	6-Apr-06	1	C	1	10.11	10.56	0.45	9.4154283	5.451112
96	20-Apr-06	1	C	1	9.82	9.97	0.15	2.9840015	4.0085906
102	27-Apr-06	1	C	1	10.23	10.37	0.14	2.0649205	2.0646221
113	8-May-06	1	C	1	10.08	10.4	0.32	5.1378418	5.631601
122	26-May-06	1	C	1	9.49	9.69	0.2	6.0587783	5.8122658
131	31-May-06	1	C	1	10.12	10.2	0.08	2.4283665	3.6118735
140	5-Jun-06	1	C	1	9.61	9.87	0.26	4.4449816	7.6332003
149	8-Jun-06	1	C	1	10.26	11.1	0.84	8.5735834	4.7050878
158	15-Jun-06	1	C	1	10.11	10.6	0.49	6.5685062	6.619727
165	28-Jun-06	1	C	1	10.48	11.41	0.93	14.303908	5.433832
172	26-Jul-06	1	C	1	10.32	13.04	2.72	8.7939334	6.4976143
182	16-Aug-06	1	C	1	9.86	19.17	9.31	37.863897	5.7539305
188	23-Aug-06	1	C	1	9.86	13.28	3.42	14.151588	5.4958052
194	30-Aug-06	1	C	1	9.96	14.05	4.09	14.873852	5.6644983
216	25-Oct-06	1	C	1	9.93	11.52	1.59	8.4668896	4.7275855
227	9-Nov-06	1	C	1	9.77	10.35	0.58	6.3384838	5.8486901
241	13-Dec-06	1	C	1	10.23	10.5	0.27	3.3338295	2.7238319
55	24-Aug-05	1	C	2	10.27	12.81	2.54	16.847167	7.3554755
1	26-May-05	1	T	1	10.03	10.45	0.42	21.253541	6.9006089
14	22-Jun-05	1	T	1	10.2	12.27	2.07	6.7252168	6.9231848
32	11-Jul-05	1	T	1					
35	17-Jul-05	1	T	1					
41	24-Jul-05	1	T	1	9.94	23.04	13.1	39.934733	6.238942
45	17-Aug-05	1	T	1	10	29.03	19.03	43.612192	7.2021168
52	24-Aug-05	1	T	1	10.32	21.59	11.27	27.644018	6.3746724
64	28-Sep-05	1	T	1	10.55	23.88	13.33	44.144453	6.941901
74	25-Oct-05	1	T	1	10.04	49.33	39.29	79.275503	7.1417467
84	1-Nov-05	1	T	1	10.1	19.5	9.4	55.471691	4.3276197
88	28-Mar-06	1	T	1	9.93	11.24	1.31	13.643222	7.7022067
253	6-Apr-06	1	T	1	10.21	10.85	0.64	15.611528	7.4764424
100	27-Apr-06	1	T	1	10.12	10.72	0.6	8.4108314	6.2247306
111	8-May-06	1	T	1	10.27	11.45	1.18	10.24929	6.449373

sample #	date	rep	trt	depth	weight filter mg	total weight (mg)	mg material	minus ug N in filter	Delta Air
121	26-May-06	1	T	1	9.96	11.01	1.05	6.7318601	7.7680586
129	31-May-06	1	T	1	10.17	10.76	0.59	5.2308361	7.7345551
138	5-Jun-06	1	T	1	9.66	10.44	0.78	6.8061406	5.8189934
147	8-Jun-06	1	T	1	10.6	11.18	0.58	4.8874659	7.5980803
157	15-Jun-06	1	T	1	9.95	11.48	1.53	9.8001102	7.5061517
163	28-Jun-06	1	T	1	10.29	11.41	1.12	7.0454231	6.4656013
170	26-Jul-06	1	T	1	10.07	12.18	2.11	5.6285205	7.4459522
181	16-Aug-06	1	T	1	10.22	33.34	23.12	46.778607	7.3340164
187	23-Aug-06	1	T	1	10.53	37.88	27.35	43.946224	6.902655
193	30-Aug-06	1	T	1	10.07	39.17	29.1	55.725108	6.7995968
199	20-Sep-06	1	T	1				96.2153	
203	27-Sep-06	1	T	1				59.132241	
208	11-Oct-06	1	T	1				54.292566	
211	17-Oct-06	1	T	1				43.42837	
214	25-Oct-06	1	T	1				32.682014	
225	9-Nov-06	1	T	1	10.22	17.92	7.7	28.212709	6.1474495
233	16-Nov-06	1	T	1				30.941163	
239	13-Dec-06	1	T	1	10.21	14.15	3.94	21.949427	6.0930915
2	26-May-05	1	T	2	10.39	10.7	0.31	12.03082	12.685621
15	22-Jun-05	1	T	2	10	10.48	0.48	3.3268984	5.3795279
46	17-Aug-05	1	T	2	9.84	11.24	1.4	8.2303556	7.8034747
53	24-Aug-05	1	T	2	10.41	11.36	0.95	6.9440084	5.6128089
65	28-Sep-05	1	T	2	10.26	13.2	2.94	14.482229	8.1229906
75	25-Oct-05	1	T	2	9.96	14.31	4.35	17.732328	7.6425984
101	27-Apr-06	1	T	2	10.05	10.37	0.32	4.9271899	5.5576916
112	8-May-06	1	T	2	10	10.3	0.3	3.6114674	7.0148964
130	31-May-06	1	T	2	10.27	10.59	0.32	3.4856413	7.7828297
139	5-Jun-06	1	T	2	9.91	10.57	0.66	5.2063775	7.1687585
148	8-Jun-06	1	T	2	10.19	10.43	0.24	3.2991177	7.2139063
164	28-Jun-06	1	T	2	9.82	10.64	0.82	7.5586791	8.1298895
171	26-Jul-06	1	T	2				11.892671	
215	25-Oct-06	1	T	2				30.002366	
226	9-Nov-06	1	T	2	10.17	28.51	18.34	42.520716	6.3033034
240	13-Dec-06	1	T	2	10.03	21.45	11.42	33.25711	4.8914552
4	26-May-05	2	C	1	10.23	10.83	0.6	17.753279	6.6939825
20	22-Jun-05	2	C	1	10.04	10.37	0.33	2.1175379	6.9228039
38	17-Jul-05	2	C	1					
50	17-Aug-05	2	C	1	9.64	11.73	2.09	15.843728	8.432379
61	20-Sep-05	2	C	1	9.62	10.25	0.63	5.2730338	7.3022834
68	28-Sep-05	2	C	1	9.31	10.73	1.42	8.7266174	7.2734845
79	25-Oct-05	2	C	1	10.12	12.07	1.95	14.588133	7.1323985
85	1-Nov-05	2	C	1	10.14	11.57	1.43	13.195756	6.8626394
92	28-Mar-06	2	C	1	9.73	10.5	0.77	8.2469575	3.5512671
251	6-Apr-06	2	C	1	9.89	10.25	0.36	11.206357	5.9066475
105	27-Apr-06	2	C	1	9.83	9.89	0.06	3.5498403	4.6337236

sample #	date	rep	trt	depth	weight filter mg	total weight (mg)	mg material	minus ug N in filter	Delta Air
116	8-May-06	2	C	1	9.74	10.02	0.28	4.9292674	5.787256
125	26-May-06	2	C	1	9.61	9.82	0.21	5.8930799	6.0574811
134	31-May-06	2	C	1	9.97	10.03	0.06	3.227501	6.2326763
142	5-Jun-06	2	C	1	10.05	10.72	0.67	6.8829249	6.0748465
152	8-Jun-06	2	C	1	10.06	10.41	0.35	4.3107631	5.8977001
160	15-Jun-06	2	C	1	9.66	10.31	0.65	7.527505	6.180722
167	28-Jun-06	2	C	1	10.33	10.74	0.41	7.3867034	6.1065523
175	26-Jul-06	2	C	1	9.8	10.17	0.37	3.63753	6.2389941
179	9-Aug-06	2	C	1	10.27	17.27	7	42.907681	4.8397768
184	16-Aug-06	2	C	1	10.28	12.75	2.47	13.419488	5.1589607
190	23-Aug-06	2	C	1	10.2	12.81	2.61	10.290132	4.9670202
196	30-Aug-06	2	C	1	10.18	12.19	2.01	12.468424	5.4821528
200	20-Sep-06	2	C	1	10.03	10.56	0.53	6.7354315	3.8562614
205	27-Sep-06	2	C	1				7.9011833	
209	11-Oct-06	2	C	1	10.15	10.5	0.35	5.9130684	0.8839697
212	17-Oct-06	2	C	1	9.52	10.32	0.8	7.9112944	13.7034
219	25-Oct-06	2	C	1	10.06	10.95	0.89	4.7917702	4.4792432
230	9-Nov-06	2	C	1	9.89	10.11	0.22	4.7296699	4.9413231
236	16-Nov-06	2	C	1	10.24	10.86	0.62	8.4562017	4.1085696
244	13-Dec-06	2	C	1	9.88	10.07	0.19	3.3395429	2.9336075
57	24-Aug-05	2	C	2	10.22	14.99	4.77	23.174757	7.657663
80	25-Oct-05	2	C	2	9.45	14.34	4.89	26.77005	8.0164626
93	28-Mar-06	2	C	2	9.84	9.78	-0.06	1.6995621	4.8651123
106	27-Apr-06	2	C	2	9.97	10.17	0.2	5.0763796	6.3869884
117	8-May-06	2	C	2	10.16	10.48	0.32	8.750475	7.4875911
143	5-Jun-06	2	C	2	9.96	10.49	0.53	11.6199	6.843954
153	8-Jun-06	2	C	2	9.36	9.45	0.09	4.6292906	7.0030966
176	26-Jul-06	2	C	2	9.72	10.28	0.56	6.5797074	4.2561599
220	25-Oct-06	2	C	2				41.671279	
245	13-Dec-06	2	C	2				39.348768	
18	22-Jun-05	2	T	1	9.73	10.5	0.77	3.0426202	4.3286518
43	24-Jul-05	2	T	1	9.67	15.58	5.91	17.544186	5.5882795
48	17-Aug-05	2	T	1	10.06	13.7	3.64	13.5811	6.6275865
56	24-Aug-05	2	T	1	10.08	20.51	10.43	26.731256	7.0337188
60	20-Sep-05	2	T	1	9.9	25.16	15.26	38.321594	6.8405436
67	28-Sep-05	2	T	1	9.88	26.64	16.76	49.015641	7.0311405
77	25-Oct-05	2	T	1	10.12	12.25	2.13	6.4874215	6.0607728
90	28-Mar-06	2	T	1	10.5	11.61	1.11	3.6757511	5.7411824
250	6-Apr-06	2	T	1	9.8	12.68	2.88	26.142501	5.5703133
103	27-Apr-06	2	T	1	10.08	10.8	0.72	9.3408153	7.2906393
114	8-May-06	2	T	1	9.87	11.27	1.4	9.3056236	7.2096874
123	26-May-06	2	T	1	9.86	10.93	1.07	11.469274	7.1696754
132	31-May-06	2	T	1	9.96	11.1	1.14	7.7657451	7.2562109
141	5-Jun-06	2	T	1	9.73	11.03	1.3	10.30014	7.0941718
150	8-Jun-06	2	T	1	10.13	10.88	0.75	7.1608186	7.442869

sample #	date	rep	trt	depth	weight filter mg	total weight (mg)	mg material	minus ug N in filter	Delta Air
159	15-Jun-06	2	T	1	9.84	12.27	2.43	31.104282	-21.731952
166	28-Jun-06	2	T	1	10.29	12.44	2.15	18.143141	5.4661121
173	26-Jul-06	2	T	1	10.46	11.25	0.79	4.3744174	5.5082796
183	16-Aug-06	2	T	1	10.14	16.33	6.19	28.396545	5.7528908
189	23-Aug-06	2	T	1	10.23	13.63	3.4	14.58713	5.2696233
195	30-Aug-06	2	T	1	10.5	14.79	4.29	22.493931	5.6979604
204	27-Sep-06	2	T	1	10.03	14.44	4.41	27.403977	5.0634942
217	25-Oct-06	2	T	1	9.16	11.34	2.18	9.8875971	5.2446574
228	9-Nov-06	2	T	1	10.06	12.92	2.86	18.486459	6.5989619
242	13-Dec-06	2	T	1	10.08	10.9	0.82	6.7327499	4.9887267
19	22-Jun-05	2	T	2	10.06	10.21	0.15	1.8642475	3.3544234
49	17-Aug-05	2	T	2	9.63	12.64	3.01	13.372162	8.4981876
78	25-Oct-05	2	T	2	9.84	12.59	2.75	24.314896	7.4343954
91	28-Mar-06	2	T	2	9.94	10.44	0.5	9.2137735	7.7272451
104	27-Apr-06	2	T	2	10.38	10.47	0.09	2.7699854	4.5352338
115	8-May-06	2	T	2	9.65	9.77	0.12	3.6914382	7.1721552
124	26-May-06	2	T	2	9.47	9.66	0.19	3.3351251	6.4905954
133	31-May-06	2	T	2	10.07	10.16	0.09	2.0666086	6.4693925
151	8-Jun-06	2	T	2	9.74	9.82	0.08	3.8444378	6.7609297
174	26-Jul-06	2	T	2	9.7	11.49	1.79	16.040524	2.9534446
218	25-Oct-06	2	T	2	9.34	15.04	5.7	17.540593	5.860908
229	9-Nov-06	2	T	2	9.67	16.16	6.49	24.929322	6.2838517
235	16-Nov-06	2	T	2	10	14.1	4.1	13.853196	6.0649198
243	13-Dec-06	2	T	2	10.09	10.68	0.59	2.2648583	5.4302962
23	22-Jun-05	3	C	1	9.98	10.11	0.13	2.5041047	1.8756102
83	25-Oct-05	3	C	1	10.13	16.87	6.74	21.959051	8.1560631
109	27-Apr-06	3	C	1	10.06	10.24	0.18	4.330596	9.4777168
120	8-May-06	3	C	1	10.11	10.55	0.44	5.7714429	7.0182045
128	26-May-06	3	C	1	9.94	10.74	0.8	10.285554	7.3735266
137	31-May-06	3	C	1	9.68	9.8	0.12	3.920498	7.1269272
146	5-Jun-06	3	C	1	9.66	10.26	0.6	6.8148488	7.4538717
156	8-Jun-06	3	C	1	10.02	10.58	0.56	7.5531555	7.7235133
162	15-Jun-06	3	C	1	9.81	10.11	0.3	4.9352323	9.425498
178	26-Jul-06	3	C	1	9.83	10.97	1.14	6.676006	7.1348266
186	16-Aug-06	3	C	1	9.83	12.98	3.15	11.616753	6.9236164
192	23-Aug-06	3	C	1	10.1	11.02	0.92	5.336214	8.1271223
198	30-Aug-06	3	C	1	9.93	10.94	1.01	5.7997921	5.1918128
202	20-Sep-06	3	C	1	10.57	14.65	4.08	25.286229	5.6267517
207	27-Sep-06	3	C	1	10.28	11.72	1.44	7.8752325	7.241699
210	11-Oct-06	3	C	1	9.97	13.91	3.94	26.591051	4.8051164
213	17-Oct-06	3	C	1	9.24	15.08	5.84	42.95379	4.1745479
223	25-Oct-06	3	C	1	10.22	13.32	3.1	12.708672	9.1149493
232	9-Nov-06	3	C	1	10.23	10.41	0.18	3.5663322	6.2360203
238	16-Nov-06	3	C	1	9.27	10.29	1.02	8.1281201	5.1366791
248	13-Dec-06	3	C	1	10.06	10.68	0.62	3.4427829	6.4857127

sample #	date	rep	trt	depth	weight filter mg	total weight (mg)	mg material	minus ug N in filter	Delta Air
24	22-Jun-05	3	C	2					
110	27-Apr-06	3	C	2	9.81	10.87	1.06	11.986406	8.5282307
224	25-Oct-06	3	C	2	10.07	14.47	4.4	24.456097	6.4867506
249	13-Dec-06	3	C	2	9.43	13.25	3.82	23.844316	5.3312635
5	26-May-05	3	T	1	9.14	10.04	0.9	11.690427	15.342197
12	8-Jun-05	3	T	1	10.29	11.65	1.36	5.2552584	4.3841772
44	24-Jul-05	3	T	1					
51	17-Aug-05	3	T	1	10.05	11.08	1.03	6.9924959	4.4343492
58	24-Aug-05	3	T	1	10.21	22.04	11.83	26.552907	7.1046071
62	20-Sep-05	3	T	1	10.15	12.78	2.63	10.347539	7.539891
69	28-Sep-05	3	T	1	9.1	14.03	4.93	17.144053	6.0400009
73	4-Oct-05	3	T	1	10.12	11.47	1.35	11.970891	6.4100885
81	25-Oct-05	3	T	1	10.14	12.01	1.87	6.0025743	7.1664895
94	28-Mar-06	3	T	1	9.77	10.24	0.47	9.3716204	6.2926744
99	20-Apr-06	3	T	1	10.18	10.7	0.52	12.953659	3.565081
107	27-Apr-06	3	T	1	10.07	10.62	0.55	6.9500743	6.5037104
118	8-May-06	3	T	1	10	11.56	1.56	8.9117274	7.6342518
126	26-May-06	3	T	1	10.62	11.87	1.25	11.595423	7.2938482
135	31-May-06	3	T	1	10.04	10.9	0.86	5.5842484	6.0520096
144	5-Jun-06	3	T	1	9.48	10.19	0.71	5.6373876	7.4483773
154	8-Jun-06	3	T	1	10.28	11.05	0.77	5.7743467	6.8845939
161	15-Jun-06	3	T	1	10.4	13.34	2.94	12.73182	7.038513
168	28-Jun-06	3	T	1	10.18	16.8	6.62	23.503554	7.0363277
177	26-Jul-06	3	T	1	10.16	11.84	1.68	6.2549485	7.3878052
180	9-Aug-06	3	T	1	10.18	30.23	20.05	76.491045	5.9012049
185	16-Aug-06	3	T	1	10.16	21.83	11.67	32.847408	5.8071691
191	23-Aug-06	3	T	1	10.12	16.61	6.49	19.021117	4.6720183
197	30-Aug-06	3	T	1	9.91	24.77	14.86	44.617289	5.8892602
201	20-Sep-06	3	T	1	10.29	15.04	4.75	16.295269	5.0996134
206	27-Sep-06	3	T	1				53.790164	
221	25-Oct-06	3	T	1				15.51141	
231	9-Nov-06	3	T	1	10.3	13.95	3.65	18.422066	5.5449121
237	16-Nov-06	3	T	1	9.99	16.84	6.85	26.248403	6.2963668
246	13-Dec-06	3	T	1	10.05	10.81	0.76	7.2359546	5.3055526
13	8-Jun-05	3	T	2	10	13.27	3.27	16.763026	5.3330926
40	17-Jul-05	3	T	2					
63	20-Sep-05	3	T	2	10.51	13.81	3.3	17.825323	7.2490902
70	28-Sep-05	3	T	2	10.26	17.97	7.71	38.574019	7.3337506
108	27-Apr-06	3	T	2	10.16	10.4	0.24	5.9701709	7.1172791
119	8-May-06	3	T	2	10.25	10.68	0.43	5.1768771	8.4547052
127	26-May-06	3	T	2	10.18	11.07	0.89	10.781449	7.4978158
136	31-May-06	3	T	2	10.09	10.37	0.28	3.6442049	6.9234387
145	5-Jun-06	3	T	2	9.13	9.9	0.77	5.1789697	7.996523
155	8-Jun-06	3	T	2	10.18	10.66	0.48	4.3440908	7.4499509
169	28-Jun-06	3	T	2	10.08	13.02	2.94	18.338238	6.6002135

sample #	date	rep	trt	depth	weight filter mg	total weight (mg)	mg material	minus ug N in filter	Delta Air
222	25-Oct-06	3	T	2	9.96	13.52	3.56	14.851745	5.5619061
247	13-Dec-06	3	T	2				30.85312	

sample #	date	rep	trt	depth	minus ug C in filter	Delta PDB	adjusted for filter	water used
8	8-Jun-05	1	C	1	22.808494	-25.662283	-23.410347	39.4288
16	22-Jun-05	1	C	1	8.7835309	-22.901267	-12.043675	41.48076
33	11-Jul-05	1	C	1	64.067415	-25.033061	-24.074824	61.48737
47	17-Aug-05	1	C	1	28.309394	-19.422727	-14.095572	63.53933
54	24-Aug-05	1	C	1	85.024052	-19.157672	-17.334271	63.53933
59	20-Sep-05	1	C	1	103.37335	-20.859061	-19.62164	57.48016
66	28-Sep-05	1	C	1	95.082073	-19.477665	-17.900786	62.51335
76	25-Oct-05	1	C	1	49.472228	-18.972543	-15.779165	39.4288
89	28-Mar-06	1	C	1	42.916295	-16.711104	-12.19007	65.0783
252	6-Apr-06	1	C	1	81.11809	-17.287664	-15.009049	62.51335
96	20-Apr-06	1	C	1	19.677715	-18.365499	-9.8452776	62.00036
102	27-Apr-06	1	C	1	8.6241742	-18.119095	1.7767982	42.09046
113	8-May-06	1	C	1	31.27988	-17.012175	-10.962676	64.308815
122	26-May-06	1	C	1	33.002487	-15.911733	-9.6465592	62.51335
131	31-May-06	1	C	1	13.475726	-19.159732	-7.657563	63.53933
140	5-Jun-06	1	C	1	21.328661	-16.995864	-8.1116898	61.743865
149	8-Jun-06	1	C	1	52.130182	-18.850298	-15.782366	57.99315
158	15-Jun-06	1	C	1	40.249597	-18.217116	-13.99289	62.51335
165	28-Jun-06	1	C	1	111.13161	-16.376034	-14.582068	59.9484
172	26-Jul-06	1	C	1	68.296455	-19.856974	-17.750166	63.53933
182	16-Aug-06	1	C	1	392.65015	-20.716146	-20.384567	57.639945
188	23-Aug-06	1	C	1	142.42092	-19.937047	-18.93571	60.97438
194	30-Aug-06	1	C	1	157.39067	-19.231676	-18.25415	35.42159
216	25-Oct-06	1	C	1	96.825044	-19.147505	-17.544666	62.51335
227	9-Nov-06	1	C	1	65.673013	-20.263882	-18.171664	62.51335
241	13-Dec-06	1	C	1	33.931015	-20.751059	-16.930433	55.94119
55	24-Aug-05	1	C	2	141.72884	-19.898178	-18.887581	61.48737
1	26-May-05	1	T	1	102.21028	-31.395943	-31.78748	36.607355
14	22-Jun-05	1	T	1	53.937751	-17.084331	-13.597393	39.685295
32	11-Jul-05	1	T	1	360.19859	-19.174191	-18.744512	59.5508
35	17-Jul-05	1	T	1	185.38109	-18.380345	-17.477222	42.8664
41	24-Jul-05	1	T	1	473.91151	-15.698254	-15.254777	56.89644
45	17-Aug-05	1	T	1	431.06433	-14.505724	-13.974074	62.769845
52	24-Aug-05	1	T	1	278.42665	-15.098142	-14.308946	65.59129
64	28-Sep-05	1	T	1	382.20971	-17.222333	-16.736008	59.43541
74	25-Oct-05	1	T	1	824.60867	-12.532695	-12.216641	58.50614
84	1-Nov-05	1	T	1	389.43144	-16.002921	-15.475709	56.35747
88	28-Mar-06	1	T	1	91.577369	-15.085002	-12.683288	63.53933
253	6-Apr-06	1	T	1	83.990376	-15.629235	-13.113842	62.00036
100	27-Apr-06	1	T	1	42.546134	-15.656663	-10.701299	63.795825
111	8-May-06	1	T	1	69.320666	-16.030215	-13.074705	64.821805
121	26-May-06	1	T	1	36.637273	-14.846794	-8.7399219	44.65541
129	31-May-06	1	T	1	33.94753	-16.503318	-10.690297	59.9484
138	5-Jun-06	1	T	1	42.92391	-16.202648	-11.493624	63.53933
147	8-Jun-06	1	T	1	40.58806	-19.196971	-15.392734	62.00036

sample #	date	rep	trt	depth	minus ug C in filter	Delta PDB	adjusted for filter	water used
157	15-Jun-06	1	T	1	73.013871	-16.192714	-13.422171	61.48737
163	28-Jun-06	1	T	1	46.928825	-16.374392	-12.125565	50.2983
170	26-Jul-06	1	T	1	38.929881	-17.488275	-12.822461	62.51335
181	16-Aug-06	1	T	1	549.45355	-16.716134	-16.363154	59.43541
187	23-Aug-06	1	T	1	524.38073	-13.859232	-13.402543	60.97438
193	30-Aug-06	1	T	1	617.24474	-14.709225	-14.343193	61.743865
199	20-Sep-06	1	T	1	979.37914		-13.101096	62.51335
203	27-Sep-06	1	T	1	640.41781		-12.784333	62.00036
208	11-Oct-06	1	T	1	625.59729		-14.075361	60.46139
211	17-Oct-06	1	T	1	512.69532		-15.04274	41.57747
214	25-Oct-06	1	T	1	391.82898		-12.954297	55.4282
225	9-Nov-06	1	T	1	284.01589	-14.518523	-13.712331	59.9484
233	16-Nov-06	1	T	1	316.15285		-12.256069	62.00036
239	13-Dec-06	1	T	1	184.05041	-15.199872	-14.014807	60.46139
2	26-May-05	1	T	2	62.365124	-27.821134	-27.549255	28.23973
15	22-Jun-05	1	T	2	21.939796	-19.628199	-12.903719	40.45478
46	17-Aug-05	1	T	2	58.314327	-19.723551	-17.219637	63.02634
53	24-Aug-05	1	T	2	49.178028	-19.16388	-16.013408	64.05232
65	28-Sep-05	1	T	2	100.66095	-19.448126	-17.953965	63.282835
75	25-Oct-05	1	T	2	147.67943	-16.100056	-14.720278	58.40943
101	27-Apr-06	1	T	2	26.376318	-21.507269	-17.049279	39.52551
112	8-May-06	1	T	2	14.950145	-18.224345	-6.8593604	39.52551
130	31-May-06	1	T	2	22.858394	-19.930487	-13.687007	59.43541
139	5-Jun-06	1	T	2	25.387133	-16.584016	-8.8615396	64.56531
148	8-Jun-06	1	T	2	24.81368	-21.81042	-17.266403	63.795825
164	28-Jun-06	1	T	2	44.048851	-17.506519	-13.389526	63.282835
171	26-Jul-06	1	T	2	91.698693		-20.553284	59.43541
215	25-Oct-06	1	T	2	353.01334		-15.731119	61.48737
226	9-Nov-06	1	T	2	457.2118	-14.709432	-14.215289	24
240	13-Dec-06	1	T	2	397.74514	-15.92048	-15.400984	28.75272
4	26-May-05	2	C	1	74.269464	-31.014066	-31.470953	36.607355
20	22-Jun-05	2	C	1	11.040447	-23.363169	-15.391911	41.99375
38	17-Jul-05	2	C	1	53.519131	-22.842558	-21.043132	62.4337
50	17-Aug-05	2	C	1	104.00254	-18.620491	-17.047506	63.02634
61	20-Sep-05	2	C	1	41.581069	-21.031914	-18.021855	62.256855
68	28-Sep-05	2	C	1	60.063537	-18.270418	-15.453836	62.00036
79	25-Oct-05	2	C	1	120.85484	-16.659138	-15.046838	58.92242
85	1-Nov-05	2	C	1	100.36849	-17.465051	-15.651636	45.1684
92	28-Mar-06	2	C	1	55.216372	-16.849767	-13.375869	65.0783
251	6-Apr-06	2	C	1	65.633762	-16.285393	-13.225826	64.56531
105	27-Apr-06	2	C	1	16.41672	-16.931841	-5.3273335	39.94179
116	8-May-06	2	C	1	27.661666	-17.529647	-10.987011	64.05232
125	26-May-06	2	C	1	28.366372	-15.949142	-8.6810254	61.48737
134	31-May-06	2	C	1	17.581745	-17.996405	-8.1258805	61.230875
142	5-Jun-06	2	C	1	41.166175	-16.137936	-11.20279	62.00036
152	8-Jun-06	2	C	1	43.133409	-20.86808	-17.905813	60.717885

sample #	date	rep	trt	depth	minus ug C in filter	Delta PDB	adjusted for filter	water used
160	15-Jun-06	2	C	1	47.708621	-16.534858	-12.409084	63.53933
167	28-Jun-06	2	C	1	51.532039	-17.232907	-13.629138	62.00036
175	26-Jul-06	2	C	1	31.591119	-23.125041	-20.219114	62.51335
179	9-Aug-06	2	C	1	319.97999	-18.462363	-17.943222	61.48737
184	16-Aug-06	2	C	1	140.06741	-19.775672	-18.739147	60.97438
190	23-Aug-06	2	C	1	148.35981	-20.577121	-19.684629	64.05232
196	30-Aug-06	2	C	1	128.81958	-19.034555	-17.815834	63.53933
200	20-Sep-06	2	C	1	55.471795	-18.990238	-16.147326	58.152935
205	27-Sep-06	2	C	1	70.402638		-15.906931	65.59129
209	11-Oct-06	2	C	1	59.527859	-20.581337	-18.35813	42.09046
212	17-Oct-06	2	C	1	73.372372	-18.521483	-16.27033	38.9
219	25-Oct-06	2	C	1	50.75567	-19.858152	-17.023616	62.51335
230	9-Nov-06	2	C	1	35.213547	-20.148794	-16.194733	62.51335
236	16-Nov-06	2	C	1	65.610633	-16.016117	-12.890059	63.02634
244	13-Dec-06	2	C	1	35.758637	-21.500303	-18.208892	57.736655
57	24-Aug-05	2	C	2	209.98993	-22.875698	-22.419602	64.05232
80	25-Oct-05	2	C	2	219.42271	-18.85128	-18.122476	60.204895
93	28-Mar-06	2	C	2	4.5685288	-21.863857	2.6302637	41.737255
106	27-Apr-06	2	C	2	23.872764	-19.433759	-13.123945	63.02634
117	8-May-06	2	C	2	52.799604	-19.223206	-16.306737	57.89644
143	5-Jun-06	2	C	2	59.624113	-18.527322	-15.758654	62.51335
153	8-Jun-06	2	C	2	26.536254	-20.052297	-14.747309	63.282835
176	26-Jul-06	2	C	2	45.3185	-23.012513	-20.947242	65.0783
220	25-Oct-06	2	C	2	318.98454		-20.070638	63.282835
245	13-Dec-06	2	C	2	222.09298		-15.378089	62.51335
18	22-Jun-05	2	T	1	23.72779	-18.771828	-11.978845	37.88983
43	24-Jul-05	2	T	1	193.57629	-17.758849	-16.84279	53.88923
48	17-Aug-05	2	T	1	112.60089	-16.858097	-15.155772	41.99375
56	24-Aug-05	2	T	1	280.18386	-15.792537	-15.04779	62.51335
60	20-Sep-05	2	T	1	387.49195	-15.331226	-14.773747	63.02634
67	28-Sep-05	2	T	1	439.63765	-14.517436	-13.996579	65.0783
77	25-Oct-05	2	T	1	62.033705	-17.31909	-14.347544	37.88983
90	28-Mar-06	2	T	1	23.321589	-18.744903	-11.815204	62.00036
250	6-Apr-06	2	T	1	238.69132	-20.069619	-19.480999	63.02634
103	27-Apr-06	2	T	1	51.976017	-15.535969	-11.442635	64.05232
114	8-May-06	2	T	1	74.731024	-17.489903	-15.059673	64.05232
123	26-May-06	2	T	1	66.532997	-15.652318	-12.48245	61.48737
132	31-May-06	2	T	1	53.149173	-16.505581	-12.793357	63.02634
141	5-Jun-06	2	T	1	65.541831	-15.54435	-12.30029	62.51335
150	8-Jun-06	2	T	1	59.823994	-19.215091	-16.638905	61.48737
159	15-Jun-06	2	T	1	75.273468	-19.141584	-17.078581	52.35026
166	28-Jun-06	2	T	1	124.36895	-16.025281	-14.377308	61.743865
173	26-Jul-06	2	T	1	40.535755	-22.843215	-20.467702	39.269015
183	16-Aug-06	2	T	1	231.56343	-19.147328	-18.477111	65.0783
189	23-Aug-06	2	T	1	130.21198	-19.739427	-18.620014	62.51335
195	30-Aug-06	2	T	1	198.45122	-19.401953	-18.640357	60.46139

sample #	date	rep	trt	depth	minus ug C in filter	Delta PDB	adjusted for filter	water used
204	27-Sep-06	2	T	1	228.50866	-19.286689	-18.617232	60.46139
217	25-Oct-06	2	T	1	106.679	-18.217904	-16.624236	59.53212
228	9-Nov-06	2	T	1	140.77168	-16.989064	-15.642232	55.9
242	13-Dec-06	2	T	1	57.159474	-19.640246	-17.062515	60.97438
19	22-Jun-05	2	T	2	8.3309133	-23.960751	-14.540169	41.737255
49	17-Aug-05	2	T	2	90.920843	-19.731372	-18.126796	62.00036
78	25-Oct-05	2	T	2	194.77234	-20.43738	-19.746126	55.94119
91	28-Mar-06	2	T	2	67.209191	-21.140145	-19.303543	62.00036
104	27-Apr-06	2	T	2	10.512405	-21.56703	-10.472245	42.09046
115	8-May-06	2	T	2	18.164927	-20.310216	-12.786717	63.02634
124	26-May-06	2	T	2	11.874156	-19.638987	-7.2286922	64.05232
133	31-May-06	2	T	2	7.7134127	-21.958416	-7.6463316	65.334795
151	8-Jun-06	2	T	2	28.752526	-21.984789	-18.159918	58.92242
174	26-Jul-06	2	T	2	96.699683	-23.592593	-22.720308	61.48737
218	25-Oct-06	2	T	2	181.99733	-18.294493	-17.36706	62.51335
229	9-Nov-06	2	T	2	201.66331	-19.632523	-18.90128	60.04511
235	16-Nov-06	2	T	2	113.36331	-18.437295	-16.96844	57.48016
243	13-Dec-06	2	T	2	34.587045	-23.646779	-21.232982	62.769845
23	22-Jun-05	3	C	1	10.921983	-23.967698	-16.792138	42.50674
83	25-Oct-05	3	C	1	223.92262	-16.668988	-15.799504	55.4282
109	27-Apr-06	3	C	1	21.175369	-19.485253	-12.41043	64.56531
120	8-May-06	3	C	1	30.775962	-18.082095	-12.487621	62.769845
128	26-May-06	3	C	1	66.225901	-18.026808	-15.413684	64.821805
137	31-May-06	3	C	1	21.358592	-18.706513	-11.111282	61.48737
146	5-Jun-06	3	C	1	43.50645	-18.517009	-14.718865	63.02634
156	8-Jun-06	3	C	1	45.020124	-18.580049	-14.931925	59.9484
162	15-Jun-06	3	C	1	26.467759	-19.2318	-13.419012	59.43541
178	26-Jul-06	3	C	1	53.425991	-22.026369	-19.980324	63.795825
186	16-Aug-06	3	C	1	93.085352	-18.882	-17.169308	60.46139
192	23-Aug-06	3	C	1	57.102654	-21.201001	-19.056326	62.51335
198	30-Aug-06	3	C	1	58.573095	-21.037297	-18.901918	40.294995
202	20-Sep-06	3	C	1	192.10355	-17.606863	-16.671172	61.743865
207	27-Sep-06	3	C	1	78.584991	-19.807418	-17.966388	61.48737
210	11-Oct-06	3	C	1	314.40596	-17.001493	-16.399094	63.795825
213	17-Oct-06	3	C	1	510.5927	-16.042062	-15.641177	61.48737
223	25-Oct-06	3	C	1	137.71189	-17.04628	-15.676144	56.5
232	9-Nov-06	3	C	1	26.171209	-21.472944	-16.959113	63.53933
238	16-Nov-06	3	C	1	65.973665	-19.440996	-17.15952	62.51335
248	13-Dec-06	3	C	1	36.499947	-22.471294	-19.670719	61.48737
24	22-Jun-05	3	C	2	16.740547	-26.219108	-23.68104	25.67478
110	27-Apr-06	3	C	2	74.968189	-19.334194	-17.303739	40.294995
224	25-Oct-06	3	C	2	238.29965	-20.97469	-20.445635	63.02634
249	13-Dec-06	3	C	2	175.7389	-18.260582	-17.297046	59.5
5	26-May-05	3	T	1	72.071212	-23.89245	-22.788394	39.4288
12	8-Jun-05	3	T	1	51.855335	-16.289524	-12.418271	35.93458
44	24-Jul-05	3	T	1	121.51768	-20.228174	-19.092772	53.119745

sample #	date	rep	trt	depth	minus ug C in filter	Delta PDB	adjusted for filter	water used
51	17-Aug-05	3	T	1	42.332333	-20.126943	-16.829586	38.659315
58	24-Aug-05	3	T	1	285.33174	-15.301852	-14.543133	63.02634
62	20-Sep-05	3	T	1	89.31555	-19.132196	-17.391861	60.97438
69	28-Sep-05	3	T	1	136.87644	-16.75808	-15.346023	62.00036
73	4-Oct-05	3	T	1	89.680981	-18.673586	-16.858839	61.48737
81	25-Oct-05	3	T	1	51.309039	-15.853163	-11.805148	33.78591
94	28-Mar-06	3	T	1	57.705867	-16.597543	-13.203851	64.05232
99	20-Apr-06	3	T	1	68.294066	-17.21676	-14.493728	63.02634
107	27-Apr-06	3	T	1	35.117326	-15.24994	-9.0617169	60.97438
118	8-May-06	3	T	1	63.764265	-15.668976	-12.365631	60.204895
126	26-May-06	3	T	1	67.517159	-14.508312	-11.1146	62.00036
135	31-May-06	3	T	1	36.485088	-14.995945	-8.9287538	60.204895
144	5-Jun-06	3	T	1	39.472312	-16.752143	-11.853216	42.60345
154	8-Jun-06	3	T	1	47.306111	-18.84064	-15.456601	60.97438
161	15-Jun-06	3	T	1	103.12022	-14.797962	-12.620723	59.53212
168	28-Jun-06	3	T	1	220.29638	-14.632454	-13.601319	61.48737
177	26-Jul-06	3	T	1	54.619848	-19.445538	-16.691137	63.282835
180	9-Aug-06	3	T	1	677.23895	-16.902031	-16.620028	50.2983
185	16-Aug-06	3	T	1	330.04679	-15.897568	-15.270409	64.308815
191	23-Aug-06	3	T	1	204.52783	-16.242864	-15.257722	64.56531
197	30-Aug-06	3	T	1	458.25231	-15.240634	-14.766088	62.00036
201	20-Sep-06	3	T	1	164.52223	-16.89421	-15.732618	14.90199
206	27-Sep-06	3	T	1	535.09889		-15.772204	58.92242
221	25-Oct-06	3	T	1	181.90049		-16.727362	60.46139
231	9-Nov-06	3	T	1	171.59138	-16.522386	-15.374113	58.40943
237	16-Nov-06	3	T	1	237.44308	-14.565188	-13.604	64.05232
246	13-Dec-06	3	T	1	54.334608	-18.992929	-16.091305	61.743865
13	8-Jun-05	3	T	2	174.39707	-18.520601	-17.573414	39.685295
40	17-Jul-05	3	T	2	181.0491	-25.409621	-25.103681	54.658715
63	20-Sep-05	3	T	2	201.55586	-20.285346	-19.605334	56.87046
70	28-Sep-05	3	T	2	301.76091	-20.060047	-19.593946	62.51335
108	27-Apr-06	3	T	2	31.254029	-17.958975	-12.38729	62.51335
119	8-May-06	3	T	2	31.733945	-17.899384	-12.382031	63.795825
127	26-May-06	3	T	2	64.494939	-16.054981	-12.884449	65.0783
136	31-May-06	3	T	2	18.441014	-16.947054	-6.6295376	60.46139
145	5-Jun-06	3	T	2	29.850258	-17.304527	-11.121395	63.02634
155	8-Jun-06	3	T	2	32.978038	-20.024802	-15.742779	60.97438
169	28-Jun-06	3	T	2	138.58885	-16.31777	-14.872524	64.56531
222	25-Oct-06	3	T	2	177.8873	-19.953977	-19.153799	63.53933
247	13-Dec-06	3	T	2	329.43852		-18.25442	43.372935

sample #	date	rep	trt	dept h	ug C/ml	leached volume (ml)	total C leached ug	total C leached mg	total C leached g C/ha
8	8-Jun-05	1	C	1	0.5784729	1053	609.1320016	0.609132002	179.4731884
16	22-Jun-05	1	C	1	0.2117495	2810	595.0161407	0.595016141	175.3141251
33	11-Jul-05	1	C	1	1.0419606	190	197.9725081	0.197972508	58.33014383
47	17-Aug-05	1	C	1	0.4455413	1872	834.0532781	0.834053278	245.7434526
54	24-Aug-05	1	C	1	1.3381327	461	616.8791541	0.616879154	181.7557908
59	20-Sep-05	1	C	1	1.7984179	?			
66	28-Sep-05	1	C	1	1.5209883	367	558.2026999	0.5582027	164.4675014
76	25-Oct-05	1	C	1	1.2547232	1203	1509.431954	1.509431954	444.735402
89	28-Mar-06	1	C	1	0.6594563	518	341.5983603	0.34159836	100.6477196
252	6-Apr-06	1	C	1	1.2976123				
96	20-Apr-06	1	C	1	0.3173807	501	159.0077125	0.159007712	46.84965012
102	27-Apr-06	1	C	1	0.2048962	2123	434.9945767	0.434994577	128.1657563
113	8-May-06	1	C	1	0.4864011	1538	748.0849398	0.74808494	220.4139481
122	26-May-06	1	C	1	0.527927	786	414.9506445	0.414950644	122.2600602
131	31-May-06	1	C	1	0.2120848	903	191.5125792	0.191512579	56.42680589
140	5-Jun-06	1	C	1	0.3454377	903	311.9302829	0.311930283	91.9063886
149	8-Jun-06	1	C	1	0.8989024	2855	2566.366362	2.566366362	756.1480149
158	15-Jun-06	1	C	1	0.643856	953	613.5947959	0.613594796	180.7880954
165	28-Jun-06	1	C	1	1.8537877	135	250.2613458	0.250261346	73.73640124
172	26-Jul-06	1	C	1	1.074869	367	394.4769192	0.394476919	116.2277311
182	16-Aug-06	1	C	1	6.8121188	30	204.3635639	0.204363564	60.21318912
188	23-Aug-06	1	C	1	2.3357502	30	70.07250478	0.070072505	20.64599434
194	30-Aug-06	1	C	1	4.4433543	35.42	157.3836093	0.157383609	46.37112826
216	25-Oct-06	1	C	1	1.5488699	1810	2803.454445	2.803454445	826.0030775
227	9-Nov-06	1	C	1	1.0505438	369	387.6506644	0.387650664	114.2164598
241	13-Dec-06	1	C	1	0.606548	1345	815.807021	0.815807021	240.3674193
55	24-Aug-05	1	C	2	2.3050073	702	1618.115132	1.618115132	476.7575522
1	26-May-05	1	T	1	2.7920694	786	2194.56655	2.19456655	646.601812
14	22-Jun-05	1	T	1	1.359137	1738	2362.18004	2.36218004	695.9870478
32	11-Jul-05	1	T	1	6.0485937	176	1064.552487	1.064552487	313.6571853
35	17-Jul-05	1	T	1	4.3246247	74	320.0222241	0.320022224	94.29057871
41	24-Jul-05	1	T	1	8.3293702	282	2348.882392	2.348882392	692.0690606
45	17-Aug-05	1	T	1	6.8673793	953	6544.612458	6.544612458	1928.28888
52	24-Aug-05	1	T	1	4.2448724	367	1557.868153	1.557868153	459.006527
64	28-Sep-05	1	T	1	6.4306733	20	128.6134666	0.128613467	37.89436257
74	25-Oct-05	1	T	1	14.094395	819	11543.30977	11.54330977	3401.093038
84	1-Nov-05	1	T	1	6.9100236	1320	9121.231087	9.121231087	2687.457598
88	28-Mar-06	1	T	1	1.4412706	385	554.8891879	0.554889188	163.4912162
253	6-Apr-06	1	T	1	1.3546756				
100	27-Apr-06	1	T	1	0.6669109	2855	1904.030745	1.904030745	560.9990411
111	8-May-06	1	T	1	1.0694035	2855	3053.147025	3.053147025	899.571899
121	26-May-06	1	T	1	0.8204442	2586	2121.668752	2.121668752	625.12338
129	31-May-06	1	T	1	0.5662792	2156	1220.897866	1.220897866	359.7224119

sample #	date	rep	trt	dept h	ug C/ml	leached volume (ml)	total C leached ug	total C leached mg	total C leached g C/ha
138	5-Jun-06	1	T	1	0.6755487	2290	1547.006465	1.547006465	455.8062656
147	8-Jun-06	1	T	1	0.6546423	3205	2098.128635	2.098128635	618.1875766
157	15-Jun-06	1	T	1	1.1874613	702	833.5978233	0.833597823	245.6092585
163	28-Jun-06	1	T	1	0.9330102	2861	2669.342053	2.669342053	786.4885249
170	26-Jul-06	1	T	1	0.6227451	4105	2556.368569	2.556368569	753.202289
181	16-Aug-06	1	T	1	9.2445489	200	1848.909779	1.848909779	544.7583322
187	23-Aug-06	1	T	1	8.6000174	369	3173.406409	3.173406409	935.0048347
193	30-Aug-06	1	T	1	9.9968594	284	2839.108065	2.839108065	836.5079742
199	20-Sep-06	1	T	1	15.66672	369	5781.019602	5.781019602	1703.305716
203	27-Sep-06	1	T	1	10.32926	738	7622.993567	7.622993567	2246.020497
208	11-Oct-06	1	T	1	10.347054	60.46	625.5829067	0.625582907	184.3202436
211	17-Oct-06	1	T	1	12.331085	41.6	512.9731357	0.512973136	151.1411714
214	25-Oct-06	1	T	1	7.0691269	7875	55669.37417	55.66937417	16402.29056
225	9-Nov-06	1	T	1	4.7376726	2167	10266.53663	10.26653663	3024.907668
233	16-Nov-06	1	T	1	5.0992099	1310	6679.964951	6.679964951	1968.168813
239	13-Dec-06	1	T	1	3.0440983	1524	4639.205788	4.639205788	1366.884439
2	26-May-05	1	T	2	2.2084179	719	1587.852442	1.587852442	467.841026
15	22-Jun-05	1	T	2	0.5423289	2855	1548.348962	1.548348962	456.2018156
46	17-Aug-05	1	T	2	0.9252374	2855	2641.552775	2.641552775	778.3007586
53	24-Aug-05	1	T	2	0.767779	1772	1360.504441	1.360504441	400.8557574
65	28-Sep-05	1	T	2	1.5906517	618	983.0227622	0.983022762	289.6354632
75	25-Oct-05	1	T	2	2.528349	1788	4520.688063	4.520688063	1331.964662
101	27-Apr-06	1	T	2	0.6673239	2855	1905.209803	1.905209803	561.3464357
112	8-May-06	1	T	2	0.3782404	2644	1000.067622	1.000067622	294.6575198
130	31-May-06	1	T	2	0.3845922	451	173.4510707	0.173451071	51.10520645
139	5-Jun-06	1	T	2	0.3932008	1287	506.0494609	0.506049461	149.1011965
148	8-Jun-06	1	T	2	0.3889546	2855	1110.465421	1.110465421	327.1848617
164	28-Jun-06	1	T	2	0.6960632	1120	779.5907573	0.779590757	229.6967464
171	26-Jul-06	1	T	2	1.5428293	205	316.28001	0.31628001	93.18798172
215	25-Oct-06	1	T	2	5.7412333	2267	13015.37595	13.01537595	3834.819077
226	9-Nov-06	1	T	2	19.050492	24	457.2117997	0.4572118	134.7117854
240	13-Dec-06	1	T	2	13.833305	28.75	397.7075094	0.397707509	117.1795844
4	26-May-05	2	C	1	2.0288126	1187	2408.200592	2.408200592	709.5464324
20	22-Jun-05	2	C	1	0.2629069	2290	602.0568089	0.602056809	177.3885707
38	17-Jul-05	2	C	1	0.8572154	869	744.9202111	0.744920211	219.4815
50	17-Aug-05	2	C	1	1.650144	367	605.6028618	0.605602862	178.4333712
61	20-Sep-05	2	C	1	0.6678954	1070	714.6481161	0.714648116	210.5622027
68	28-Sep-05	2	C	1	0.9687611	953	923.2293233	0.923229323	272.0180681
79	25-Oct-05	2	C	1	2.0510842	1621	3324.807481	3.324807481	979.6132826
85	1-Nov-05	2	C	1	2.2220953	969	2153.210335	2.153210335	634.4167163
92	28-Mar-06	2	C	1	0.8484606	2156	1829.281006	1.829281006	538.9749575
251	6-Apr-06	2	C	1	1.0165484				
105	27-Apr-06	2	C	1	0.4110161	2855	1173.451075	1.173451075	345.7428036
116	8-May-06	2	C	1	0.4318605	2039	880.5635187	0.880563519	259.447118
125	26-May-06	2	C	1	0.4613366	1722	794.4215572	0.794421557	234.0664576

sample #	date	rep	trt	dept h	ug C/ml	leached volume (ml)	total C leached ug	total C leached mg	total C leached g C/ha
134	31-May-06	2	C	1	0.2871386	1671	479.808533	0.479808533	141.3696326
142	5-Jun-06	2	C	1	0.6639667	1137	754.930155	0.754930155	222.4308058
152	8-Jun-06	2	C	1	0.7103905	2123	1508.159028	1.508159028	444.3603501
160	15-Jun-06	2	C	1	0.7508518	585	439.2483131	0.439248313	129.4190669
167	28-Jun-06	2	C	1	0.8311571	618	513.6550835	0.513655084	151.3420989
175	26-Jul-06	2	C	1	0.50535	1538	777.2282427	0.777228243	229.0006608
179	9-Aug-06	2	C	1	5.2039954	122	634.8874432	0.634887443	187.0617099
184	16-Aug-06	2	C	1	2.2971518	827	1899.744563	1.899744563	559.7361706
190	23-Aug-06	2	C	1	2.3162285	369	854.6883099	0.85468831	251.8233088
196	30-Aug-06	2	C	1	2.0273991	369	748.1102516	0.748110252	220.4214059
200	20-Sep-06	2	C	1	0.953895	738	703.9745218	0.703974522	207.4173606
205	27-Sep-06	2	C	1	1.0733535	1363	1462.980771	1.462980771	431.0491369
209	11-Oct-06	2	C	1	1.4142839	618	874.0274432	0.874027443	257.5213445
212	17-Oct-06	2	C	1	1.8861792	649	1224.130314	1.224130314	360.6748127
219	25-Oct-06	2	C	1	0.8119173	4375	3552.138181	3.552138181	1046.593454
230	9-Nov-06	2	C	1	0.5632964	917	516.542831	0.516542831	152.1929378
236	16-Nov-06	2	C	1	1.0410034	369	384.130249	0.384130249	113.179213
244	13-Dec-06	2	C	1	0.6193403	2792	1729.198109	1.729198109	509.4867734
57	24-Aug-05	2	C	2	3.2784126	535	1753.950754	1.753950754	516.7798332
80	25-Oct-05	2	C	2	3.6445992	332	1210.006919	1.210006919	356.5135293
93	28-Mar-06	2	C	2	0.1094593	583	63.81474464	0.063814745	18.80222293
106	27-Apr-06	2	C	2	0.3787744	1287	487.4826518	0.487482652	143.6307165
117	8-May-06	2	C	2	0.9119663	367	334.6916412	0.334691641	98.61274048
143	5-Jun-06	2	C	2	0.9537821	205	195.525325	0.195525325	57.60911166
153	8-Jun-06	2	C	2	0.4193278	1120	469.6471705	0.46964717	138.3757132
176	26-Jul-06	2	C	2	0.6963688	468	325.9006155	0.325900615	96.0225738
220	25-Oct-06	2	C	2	5.040617	786	3961.924984	3.961924984	1167.332052
245	13-Dec-06	2	C	2	3.5527289	1287	4572.362048	4.572362048	1347.189761
18	22-Jun-05	2	T	1	0.6262311	2855	1787.889821	1.787889821	526.7795584
43	24-Jul-05	2	T	1	3.5921146	149	535.2250754	0.535225075	157.6974294
48	17-Aug-05	2	T	1	2.6813726	2855	7655.318828	7.655318828	2255.544734
56	24-Aug-05	2	T	1	4.4819844	520	2330.631866	2.330631866	686.6917697
60	20-Sep-05	2	T	1	6.1480953	552	3393.748627	3.393748627	999.9259359
67	28-Sep-05	2	T	1	6.7555183	461	3114.293927	3.114293927	917.5880751
77	25-Oct-05	2	T	1	1.6372126	669	1095.295198	1.095295198	322.7151437
90	28-Mar-06	2	T	1	0.3761525	2855	1073.915343	1.073915343	316.4158346
250	6-Apr-06	2	T	1	3.7871678				
103	27-Apr-06	2	T	1	0.8114619	2855	2316.723709	2.316723709	682.5939036
114	8-May-06	2	T	1	1.1667185	2369	2763.956027	2.763956027	814.3653587
123	26-May-06	2	T	1	1.0820596	1120	1211.906722	1.211906722	357.073283
132	31-May-06	2	T	1	0.8432851	836	704.9863318	0.704986332	207.7154778
141	5-Jun-06	2	T	1	1.0484454	568	595.5169612	0.595516961	175.4616857
150	8-Jun-06	2	T	1	0.9729477	367	357.0717958	0.357071796	105.2067754
159	15-Jun-06	2	T	1	1.4378814	52.35	75.27309385	0.075273094	22.1782834
166	28-Jun-06	2	T	1	2.0142721	367	739.2378743	0.739237874	217.80727

sample #	date	rep	trt	dept h	ug C/ml	leached volume (ml)	total C leached ug	total C leached mg	total C leached g C/ha
173	26-Jul-06	2	T	1	1.032258	1003	1035.354766	1.035354766	305.0544389
183	16-Aug-06	2	T	1	3.5582281	453	1611.877323	1.611877323	474.9196591
189	23-Aug-06	2	T	1	2.0829468	200	416.5893503	0.41658935	122.7428846
195	30-Aug-06	2	T	1	3.2822802	369	1211.161394	1.211161394	356.8536811
204	27-Sep-06	2	T	1	3.7794146	200	755.8829116	0.755882912	222.7115238
217	25-Oct-06	2	T	1	1.7919571	4185	7499.340268	7.499340268	2209.587586
228	9-Nov-06	2	T	1	2.5182769	538	1354.832997	1.354832997	399.1847369
242	13-Dec-06	2	T	1	0.9374343	1470	1378.028389	1.378028389	406.0189715
19	22-Jun-05	2	T	2	0.1996038	2855	569.8687534	0.569868753	167.9047594
49	17-Aug-05	2	T	2	1.4664567	953	1397.533237	1.397533237	411.7658331
78	25-Oct-05	2	T	2	3.481734	74	257.6483144	0.257648314	75.9128799
91	28-Mar-06	2	T	2	1.0840129	205	222.2226491	0.222222649	65.47514707
104	27-Apr-06	2	T	2	0.2497574	2863	715.0555317	0.715055532	210.6822427
115	8-May-06	2	T	2	0.2882117	1371	395.1382119	0.395138212	116.4225727
124	26-May-06	2	T	2	0.1853821	752	139.4073698	0.13940737	41.07465228
133	31-May-06	2	T	2	0.1180598	350	41.32092903	0.041320929	12.17469919
151	8-Jun-06	2	T	2	0.4879726	135	65.87630034	0.0658763	19.40963475
174	26-Jul-06	2	T	2	1.5726755	235	369.5787511	0.369578751	108.8917947
218	25-Oct-06	2	T	2	2.9113355	2448	7126.949252	7.126949252	2099.867193
229	9-Nov-06	2	T	2	3.3585301	60.05	201.679733	0.201679733	59.42243164
235	16-Nov-06	2	T	2	1.9722163	135	266.2492065	0.266249206	78.44702607
243	13-Dec-06	2	T	2	0.5510137	1722	948.8455941	0.948845594	279.5655846
23	22-Jun-05	3	C	1	0.2569471	2855	733.5839272	0.733583927	216.1414046
83	25-Oct-05	3	C	1	4.0398682	702	2835.987449	2.835987449	835.5885237
109	27-Apr-06	3	C	1	0.3279682	1120	367.3243859	0.367324386	108.2275739
120	8-May-06	3	C	1	0.4902985	702	344.1895635	0.344189563	101.4111855
128	26-May-06	3	C	1	1.0216609	485	495.5055192	0.495505519	145.9945549
137	31-May-06	3	C	1	0.3473655	404	140.3356657	0.140335666	41.34816313
146	5-Jun-06	3	C	1	0.69029	122	84.21537647	0.084215376	24.81301605
156	8-Jun-06	3	C	1	0.7509812	535	401.7749628	0.401774963	118.3780091
162	15-Jun-06	3	C	1	0.4453197	176	78.37626717	0.078376267	23.09259492
178	26-Jul-06	3	C	1	0.8374528	602	504.1465712	0.504146571	148.5405337
186	16-Aug-06	3	C	1	1.5395834	869	1337.897967	1.337897967	394.1950404
192	23-Aug-06	3	C	1	0.9134474	535	488.6943353	0.488694335	143.987724
198	30-Aug-06	3	C	1	1.4536072	618	898.32925	0.89832925	264.6815704
202	20-Sep-06	3	C	1	3.1112978	20	62.22595535	0.062225955	18.33410588
207	27-Sep-06	3	C	1	1.2780672	535	683.7659555	0.683765956	201.4631572
210	11-Oct-06	3	C	1	4.9283156	100	492.831559	0.492831559	145.2067057
213	17-Oct-06	3	C	1	8.3040256	250	2076.006412	2.076006412	611.6695381
223	25-Oct-06	3	C	1	2.4373785	2855	6958.715626	6.958715626	2050.299242
232	9-Nov-06	3	C	1	0.4118899	1371	564.7010678	0.564701068	166.382165
238	16-Nov-06	3	C	1	1.0553532	135	142.4726843	0.142472684	41.97780918
248	13-Dec-06	3	C	1	0.593617	969	575.2148517	0.575214852	169.4799209
24	22-Jun-05	3	C	2	0.652023	1337	871.7547268	0.871754727	256.8517168
110	27-Apr-06	3	C	2	1.8604839	282	524.6564546	0.524656455	154.5835164

sample #	date	rep	trt	dept h	ug C/ml	leached volume (ml)	total C leached ug	total C leached mg	total C leached g C/ha
224	25-Oct-06	3	C	2	3.7809534	1371	5183.687058	5.183687058	1527.309092
249	13-Dec-06	3	C	2	2.953595	235	694.094823	0.694094823	204.5064299
5	26-May-05	3	T	1	1.8278825	786	1436.715625	1.436715625	423.3104374
12	8-Jun-05	3	T	1	1.4430483	2855	4119.902958	4.119902958	1213.878302
44	24-Jul-05	3	T	1	2.287618	836	1912.448637	1.912448637	563.4792685
51	17-Aug-05	3	T	1	1.0950099	2855	3126.25329	3.12625329	921.111753
58	24-Aug-05	3	T	1	4.5271825	618	2797.798797	2.797798797	824.3367109
62	20-Sep-05	3	T	1	1.4648046	786	1151.336382	1.151336382	339.2269836
69	28-Sep-05	3	T	1	2.2076717	2369	5229.974187	5.229974187	1540.94702
73	4-Oct-05	3	T	1	1.4585269	585	853.2382181	0.853238218	251.3960572
81	25-Oct-05	3	T	1	1.518652	flooded			
94	28-Mar-06	3	T	1	0.9009177	1203	1083.80395	1.08380395	319.3293902
99	20-Apr-06	3	T	1	1.0835798	1371	1485.587845	1.485587845	437.7100308
107	27-Apr-06	3	T	1	0.5759358	2855	1644.296591	1.644296591	484.4715943
118	8-May-06	3	T	1	1.0591209	2855	3023.79027	3.02379027	890.9222952
126	26-May-06	3	T	1	1.0889801	2123	2311.904775	2.311904775	681.1740644
135	31-May-06	3	T	1	0.6060153	3387	2052.573852	2.052573852	604.765425
144	5-Jun-06	3	T	1	0.9265051	4355	4034.929552	4.034929552	1188.841942
154	8-Jun-06	3	T	1	0.7758359	3405	2641.721134	2.641721134	778.3503637
161	15-Jun-06	3	T	1	1.7321779	451	781.2122224	0.781212222	230.174491
168	28-Jun-06	3	T	1	3.5827908	986	3532.631692	3.532631692	1040.846108
177	26-Jul-06	3	T	1	0.8631068	2586	2231.994297	2.231994297	657.6294333
180	9-Aug-06	3	T	1	13.46445	110	1481.089519	1.481089519	436.3846549
185	16-Aug-06	3	T	1	5.132217	540	2771.397165	2.771397165	816.5577976
191	23-Aug-06	3	T	1	3.1677665	369	1168.905853	1.168905853	344.4036101
197	30-Aug-06	3	T	1	7.3911234	200	1478.224681	1.478224681	435.5405661
201	20-Sep-06	3	T	1	11.040286	14.9	164.5002623	0.164500262	48.4679618
206	27-Sep-06	3	T	1	9.081414	200	1816.282797	1.816282797	535.1451965
221	25-Oct-06	3	T	1	3.0085397	5425	16321.32782	16.32132782	4808.876787
231	9-Nov-06	3	T	1	2.9377343	2881	8463.612448	8.463612448	2493.698423
237	16-Nov-06	3	T	1	3.7070177	595	2205.675534	2.205675534	649.8749364
246	13-Dec-06	3	T	1	0.8800001	1542	1356.960161	1.356960161	399.8114793
13	8-Jun-05	3	T	2	4.3945011	735	3229.95831	3.22995831	951.6671508
40	17-Jul-05	3	T	2	3.3123555	176	582.9745741	0.582974574	171.7662269
63	20-Sep-05	3	T	2	3.5441221	205	726.5450383	0.726545038	214.0674833
70	28-Sep-05	3	T	2	4.8271434	205	989.5644018	0.989564402	291.5628762
108	27-Apr-06	3	T	2	0.4999577	2855	1427.379156	1.427379156	420.5595627
119	8-May-06	3	T	2	0.4974298	2321	1154.534601	1.154534601	340.1692992
127	26-May-06	3	T	2	0.991036	1621	1606.469384	1.606469384	473.3262769
136	31-May-06	3	T	2	0.3050048	1538	469.0973792	0.469097379	138.213724
145	5-Jun-06	3	T	2	0.4736156	3605	1707.38426	1.70738426	503.0595933
155	8-Jun-06	3	T	2	0.5408507	2123	1148.226094	1.148226094	338.3105756
169	28-Jun-06	3	T	2	2.1464908	451	968.0673725	0.968067372	285.2290432
222	25-Oct-06	3	T	2	2.7996408	4451	12461.20132	12.46120132	3671.538396
247	13-Dec-06	3	T	2	7.5954861	43.37	329.4162308	0.329416231	97.05840623

sample #	date	rep	trt	depth	minus	adjusted	amt C sample
					ug C in filter	for filter	
4	26-May-05	2	C	1	74.26946417	-31.470953	
1	26-May-05	1	T	1	102.2102758	-31.78748	102.2102758
5	26-May-05	3	T	1	72.07121249	-22.788394	72.07121249
8	8-Jun-05	1	C	1	22.8084937	-23.410347	
12	8-Jun-05	3	T	1	51.85533535	-12.418271	51.85533535
16	22-Jun-05	1	C	1	8.783530865	-12.043675	
20	22-Jun-05	2	C	1	11.04044678	-15.391911	
23	22-Jun-05	3	C	1	10.92198293	-16.792138	
14	22-Jun-05	1	T	1	53.93775129	-13.597393	53.93775129
18	22-Jun-05	2	T	1	23.72779033	-11.978845	23.72779033
33	11-Jul-05	1	C	1	64.06741504	-24.074824	
32	11-Jul-05	1	T	1	360.1985923	-18.744512	360.1985923
38	17-Jul-05	2	C	1	53.51913116	-21.043132	
35	17-Jul-05	1	T	1	185.3810901	-17.477222	185.3810901
41	24-Jul-05	1	T	1	473.9115109	-15.254777	473.9115109
43	24-Jul-05	2	T	1	193.5762899	-16.84279	193.5762899
44	24-Jul-05	3	T	1	121.5176841	-19.092772	121.5176841
47	17-Aug-05	1	C	1	28.30939448	-14.095572	
50	17-Aug-05	2	C	1	104.0025392	-17.047506	
45	17-Aug-05	1	T	1	431.0643332	-13.974074	431.0643332
48	17-Aug-05	2	T	1	112.6008914	-15.155772	112.6008914
51	17-Aug-05	3	T	1	42.33233299	-16.829586	42.33233299
54	24-Aug-05	1	C	1	85.02405237	-17.334271	
52	24-Aug-05	1	T	1	278.4266533	-14.308946	278.4266533
56	24-Aug-05	2	T	1	280.1838569	-15.04779	280.1838569
58	24-Aug-05	3	T	1	285.3317447	-14.543133	285.3317447
59	20-Sep-05	1	C	1	103.3733513	-19.62164	
61	20-Sep-05	2	C	1	41.58106929	-18.021855	
60	20-Sep-05	2	T	1	387.4919471	-14.773747	387.4919471
62	20-Sep-05	3	T	1	89.31554972	-17.391861	89.31554972
66	28-Sep-05	1	C	1	95.08207288	-17.900786	
68	28-Sep-05	2	C	1	60.06353663	-15.453836	
64	28-Sep-05	1	T	1	382.2097059	-16.736008	382.2097059
67	28-Sep-05	2	T	1	439.6376453	-13.996579	439.6376453

69	28-Sep-05	3	T	1	136.8764383	-15.346023	136.8764383
73	4-Oct-05	3	T	1	89.68098122	-16.858839	89.68098122
76	25-Oct-05	1	C	1	49.4722283	-15.779165	
79	25-Oct-05	2	C	1	120.8548444	-15.046838	
83	25-Oct-05	3	C	1	223.9226204	-15.799504	
74	25-Oct-05	1	T	1	824.6086662	-12.216641	824.6086662
77	25-Oct-05	2	T	1	62.0337053	-14.347544	62.0337053
81	25-Oct-05	3	T	1	51.3090386	-11.805148	51.3090386
85	1-Nov-05	2	C	1	100.3684888	-15.651636	
84	1-Nov-05	1	T	1	389.431445	-15.475709	389.431445
89	28-Mar-06	1	C	1	42.91629454	-12.19007	
92	28-Mar-06	2	C	1	55.21637202	-13.375869	
88	28-Mar-06	1	T	1	91.57736941	-12.683288	91.57736941
90	28-Mar-06	2	T	1	23.32158944	-11.815204	23.32158944
94	28-Mar-06	3	T	1	57.70586655	-13.203851	57.70586655
252	6-Apr-06	1	C	1	81.11809025	-15.009049	
251	6-Apr-06	2	C	1	65.63376168	-13.225826	
253	6-Apr-06	1	T	1	83.99037573	-13.113842	83.99037573
250	6-Apr-06	2	T	1	238.6913224	-19.480999	238.6913224
96	20-Apr-06	1	C	1	19.6777154	-9.8452776	
99	20-Apr-06	3	T	1	68.29406608	-14.493728	68.29406608
102	27-Apr-06	1	C	1	8.624174203	1.7767982	
105	27-Apr-06	2	C	1	16.41672029	-5.3273335	
109	27-Apr-06	3	C	1	21.17536861	-12.41043	
100	27-Apr-06	1	T	1	42.54613388	-10.701299	42.54613388
103	27-Apr-06	2	T	1	51.97601693	-11.442635	51.97601693
107	27-Apr-06	3	T	1	35.11732581	-9.0617169	35.11732581
113	8-May-06	1	C	1	31.27988036	-10.962676	
116	8-May-06	2	C	1	27.66166566	-10.987011	
120	8-May-06	3	C	1	30.77596232	-12.487621	
111	8-May-06	1	T	1	69.32066588	-13.074705	69.32066588
114	8-May-06	2	T	1	74.73102403	-15.059673	74.73102403
118	8-May-06	3	T	1	63.7642647	-12.365631	63.7642647
122	26-May-06	1	C	1	33.00248711	-9.6465592	
125	26-May-06	2	C	1	28.36637179	-8.6810254	
128	26-May-06	3	C	1	66.22590132	-15.413684	
121	26-May-06	1	T	1	36.63727301	-8.7399219	36.63727301
123	26-May-06	2	T	1	66.53299736	-12.48245	66.53299736

126	26-May-06	3	T	1	67.51715888	-11.1146	67.51715888
131	31-May-06	1	C	1	13.47572643	-7.657563	
134	31-May-06	2	C	1	17.58174525	-8.1258805	
137	31-May-06	3	C	1	21.35859158	-11.111282	
129	31-May-06	1	T	1	33.94752952	-10.690297	33.94752952
132	31-May-06	2	T	1	53.14917254	-12.793357	53.14917254
135	31-May-06	3	T	1	36.48508806	-8.9287538	36.48508806
140	5-Jun-06	1	C	1	21.32866144	-8.1116898	
142	5-Jun-06	2	C	1	41.16617536	-11.20279	
146	5-Jun-06	3	C	1	43.50645042	-14.718865	
138	5-Jun-06	1	T	1	42.92391018	-11.493624	42.92391018
141	5-Jun-06	2	T	1	65.54183138	-12.30029	65.54183138
144	5-Jun-06	3	T	1	39.47231215	-11.853216	39.47231215
149	8-Jun-06	1	C	1	52.13018193	-15.782366	
152	8-Jun-06	2	C	1	43.13340859	-17.905813	
156	8-Jun-06	3	C	1	45.0201237	-14.931925	
147	8-Jun-06	1	T	1	40.5880595	-15.392734	40.5880595
150	8-Jun-06	2	T	1	59.82399352	-16.638905	59.82399352
154	8-Jun-06	3	T	1	47.3061111	-15.456601	47.3061111
158	15-Jun-06	1	C	1	40.24959731	-13.99289	
160	15-Jun-06	2	C	1	47.7086214	-12.409084	
162	15-Jun-06	3	C	1	26.46775894	-13.419012	
157	15-Jun-06	1	T	1	73.0138715	-13.422171	73.0138715
159	15-Jun-06	2	T	1	75.2734677	-17.078581	75.2734677
161	15-Jun-06	3	T	1	103.1202212	-12.620723	103.1202212
165	28-Jun-06	1	C	1	111.1316094	-14.582068	
167	28-Jun-06	2	C	1	51.53203899	-13.629138	
163	28-Jun-06	1	T	1	46.92882468	-12.125565	46.92882468
166	28-Jun-06	2	T	1	124.3689469	-14.377308	124.3689469
168	28-Jun-06	3	T	1	220.2963813	-13.601319	220.2963813
172	26-Jul-06	1	C	1	68.29645544	-17.750166	
175	26-Jul-06	2	C	1	31.59111909	-20.219114	
178	26-Jul-06	3	C	1	53.42599075	-19.980324	
170	26-Jul-06	1	T	1	38.92988138	-12.822461	38.92988138
173	26-Jul-06	2	T	1	40.53575456	-20.467702	40.53575456
177	26-Jul-06	3	T	1	54.61984795	-16.691137	54.61984795
179	9-Aug-06	2	C	1	319.9799929	-17.943222	
180	9-Aug-06	3	T	1	677.2389541	-16.620028	677.2389541
182	16-Aug-06	1	C	1	392.6501527	-20.384567	

184	16-Aug-06	2	C	1	140.0674086	-18.739147	
186	16-Aug-06	3	C	1	93.08535188	-17.169308	
181	16-Aug-06	1	T	1	549.453554	-16.363154	549.453554
183	16-Aug-06	2	T	1	231.5634349	-18.477111	231.5634349
185	16-Aug-06	3	T	1	330.0467918	-15.270409	330.0467918
188	23-Aug-06	1	C	1	142.4209178	-18.93571	
190	23-Aug-06	2	C	1	148.3598079	-19.684629	
192	23-Aug-06	3	C	1	57.10265425	-19.056326	
187	23-Aug-06	1	T	1	524.380727	-13.402543	524.380727
189	23-Aug-06	2	T	1	130.2119793	-18.620014	130.2119793
191	23-Aug-06	3	T	1	204.5278286	-15.257722	204.5278286
194	30-Aug-06	1	C	1	157.3906742	-18.25415	
196	30-Aug-06	2	C	1	128.8195777	-17.815834	
198	30-Aug-06	3	C	1	58.57309488	-18.901918	
193	30-Aug-06	1	T	1	617.2447361	-14.343193	617.2447361
195	30-Aug-06	2	T	1	198.4512233	-18.640357	198.4512233
197	30-Aug-06	3	T	1	458.252312	-14.766088	458.252312
200	20-Sep-06	2	C	1	55.47179486	-16.147326	
202	20-Sep-06	3	C	1	192.1035493	-16.671172	
199	20-Sep-06	1	T	1	979.3791375	-13.101096	979.3791375
201	20-Sep-06	3	T	1	164.5222325	-15.732618	164.5222325
205	27-Sep-06	2	C	1	70.40263829	-15.906931	
207	27-Sep-06	3	C	1	78.58499122	-17.966388	
203	27-Sep-06	1	T	1	640.4178123	-12.784333	640.4178123
204	27-Sep-06	2	T	1	228.5086576	-18.617232	228.5086576
206	27-Sep-06	3	T	1	535.098889	-15.772204	535.098889
209	11-Oct-06	2	C	1	59.52785944	-18.35813	
210	11-Oct-06	3	C	1	314.4059589	-16.399094	
208	11-Oct-06	1	T	1	625.5972891	-14.075361	625.5972891
212	17-Oct-06	2	C	1	73.37237169	-16.27033	
213	17-Oct-06	3	C	1	510.5926976	-15.641177	
211	17-Oct-06	1	T	1	512.6953163	-15.04274	512.6953163
216	25-Oct-06	1	C	1	96.82504361	-17.544666	
219	25-Oct-06	2	C	1	50.75567026	-17.023616	
223	25-Oct-06	3	C	1	137.7118854	-15.676144	
214	25-Oct-06	1	T	1	391.8289785	-12.954297	391.8289785
217	25-Oct-06	2	T	1	106.6790023	-16.624236	106.6790023
221	25-Oct-06	3	T	1	181.9004915	-16.727362	181.9004915
227	9-Nov-06	1	C	1	65.67301263	-18.171664	

230	9-Nov-06	2	C	1	35.2135472	-16.194733	
232	9-Nov-06	3	C	1	26.17120897	-16.959113	
225	9-Nov-06	1	T	1	284.0158949	-13.712331	284.0158949
228	9-Nov-06	2	T	1	140.7716813	-15.642232	140.7716813
231	9-Nov-06	3	T	1	171.5913845	-15.374113	171.5913845
236	16-Nov-06	2	C	1	65.61063327	-12.890059	
238	16-Nov-06	3	C	1	65.97366505	-17.15952	
233	16-Nov-06	1	T	1	316.1528487	-12.256069	316.1528487
237	16-Nov-06	3	T	1	237.4430842	-13.604	237.4430842
241	13-Dec-06	1	C	1	33.93101529	-16.930433	
244	13-Dec-06	2	C	1	35.75863705	-18.208892	
248	13-Dec-06	3	C	1	36.49994676	-19.670719	
239	13-Dec-06	1	T	1	184.0504137	-14.014807	184.0504137
242	13-Dec-06	2	T	1	57.15947391	-17.062515	57.15947391
246	13-Dec-06	3	T	1	54.33460763	-16.091305	54.33460763
2	26-May-05	1	T	2	62.36512413	-27.549255	62.36512413
13	8-Jun-05	3	T	2	174.3970726	-17.573414	174.3970726
24	22-Jun-05	3	C	2	16.74054662	-23.68104	
15	22-Jun-05	1	T	2	21.93979566	-12.903719	21.93979566
19	22-Jun-05	2	T	2	8.330913302	-14.540169	8.330913302
40	17-Jul-05	3	T	2	181.0490971	-25.103681	181.0490971
46	17-Aug-05	1	T	2	58.3143269	-17.219637	58.3143269
49	17-Aug-05	2	T	2	90.92084347	-18.126796	90.92084347
55	24-Aug-05	1	C	2	141.7288374	-18.887581	
57	24-Aug-05	2	C	2	209.9899345	-22.419602	
53	24-Aug-05	1	T	2	49.1780281	-16.013408	49.1780281
63	20-Sep-05	3	T	2	201.5558563	-19.605334	201.5558563
65	28-Sep-05	1	T	2	100.6609503	-17.953965	100.6609503
70	28-Sep-05	3	T	2	301.7609063	-19.593946	301.7609063
80	25-Oct-05	2	C	2	219.4227093	-18.122476	
75	25-Oct-05	1	T	2	147.6794256	-14.720278	147.6794256
78	25-Oct-05	2	T	2	194.772342	-19.746126	194.772342
93	28-Mar-06	2	C	2	4.568528764	2.6302637	
91	28-Mar-06	2	T	2	67.20919145	-19.303543	67.20919145
106	27-Apr-06	2	C	2	23.87276407	-13.123945	

110	27-Apr-06	3	C	2	74.9681887	-17.303739	
101	27-Apr-06	1	T	2	26.37631843	-17.049279	26.37631843
104	27-Apr-06	2	T	2	10.51240526	-10.472245	10.51240526
108	27-Apr-06	3	T	2	31.25402898	-12.38729	31.25402898
117	8-May-06	2	C	2	52.7996036	-16.306737	
112	8-May-06	1	T	2	14.95014478	-6.8593604	14.95014478
115	8-May-06	2	T	2	18.16492727	-12.786717	18.16492727
119	8-May-06	3	T	2	31.73394545	-12.382031	31.73394545
124	26-May-06	2	T	2	11.8741562	-7.2286922	11.8741562
127	26-May-06	3	T	2	64.49493924	-12.884449	64.49493924
130	31-May-06	1	T	2	22.85839357	-13.687007	22.85839357
133	31-May-06	2	T	2	7.713412651	-7.6463316	7.713412651
136	31-May-06	3	T	2	18.44101404	-6.6295376	18.44101404
143	5-Jun-06	2	C	2	59.62411256	-15.758654	
139	5-Jun-06	1	T	2	25.38713312	-8.8615396	25.38713312
145	5-Jun-06	3	T	2	29.85025821	-11.121395	29.85025821
153	8-Jun-06	2	C	2	26.53625393	-14.747309	
148	8-Jun-06	1	T	2	24.81368043	-17.266403	24.81368043
151	8-Jun-06	2	T	2	28.7525262	-18.159918	28.7525262
155	8-Jun-06	3	T	2	32.97803775	-15.742779	32.97803775
164	28-Jun-06	1	T	2	44.04885113	-13.389526	44.04885113
169	28-Jun-06	3	T	2	138.588847	-14.872524	138.588847
176	26-Jul-06	2	C	2	45.31850005	-20.947242	
171	26-Jul-06	1	T	2	91.69869301	-20.553284	91.69869301
174	26-Jul-06	2	T	2	96.69968262	-22.720308	96.69968262
220	25-Oct-06	2	C	2	318.9845357	-20.070638	
224	25-Oct-06	3	C	2	238.2996521	-20.445635	
215	25-Oct-06	1	T	2	353.0133377	-15.731119	353.0133377
218	25-Oct-06	2	T	2	181.9973338	-17.36706	181.9973338
222	25-Oct-06	3	T	2	177.8873023	-19.153799	177.8873023
226	9-Nov-06	1	T	2	457.2117997	-14.215289	457.2117997
229	9-Nov-06	2	T	2	201.6633098	-18.90128	201.6633098
235	16-Nov-06	2	T	2	113.363311	-16.96844	113.363311
245	13-Dec-06	2	C	2	222.0929829	-15.378089	
249	13-Dec-06	3	C	2	175.738902	-17.297046	
240	13-Dec-06	1	T	2	397.745136	-15.400984	397.745136

243	13-Dec-06	2	T	2	34.58704464	-21.232982	34.58704464
247	13-Dec-06	3	T	2	329.4385235	-18.25442	329.4385235

sample #	date	rep	trt	depth	delta sample	delta cntrl	mean
							delta cntrl
4	26-May-05	2	C	1		-31.470953	
1	26-May-05	1	T	1	-31.78748003		
5	26-May-05	3	T	1	-22.7883944		
8	8-Jun-05	1	C	1		-23.410347	
12	8-Jun-05	3	T	1	-12.41827131		
16	22-Jun-05	1	C	1		-12.043675	
20	22-Jun-05	2	C	1		-15.391911	
23	22-Jun-05	3	C	1		-16.792138	
14	22-Jun-05	1	T	1	-13.59739269		
18	22-Jun-05	2	T	1	-11.97884533		
33	11-Jul-05	1	C	1		-24.074824	
32	11-Jul-05	1	T	1	-18.74451195		
38	17-Jul-05	2	C	1		-21.043132	
35	17-Jul-05	1	T	1	-17.47722187		
41	24-Jul-05	1	T	1	-15.25477702		
43	24-Jul-05	2	T	1	-16.84279008		
44	24-Jul-05	3	T	1	-19.09277225		
47	17-Aug-05	1	C	1		-14.095572	
50	17-Aug-05	2	C	1		-17.047506	-15.571539
45	17-Aug-05	1	T	1	-13.9740743		
48	17-Aug-05	2	T	1	-15.15577201		
51	17-Aug-05	3	T	1	-16.82958638		
54	24-Aug-05	1	C	1		-17.334271	
52	24-Aug-05	1	T	1	-14.30894565		
56	24-Aug-05	2	T	1	-15.04778993		
58	24-Aug-05	3	T	1	-14.54313297		
59	20-Sep-05	1	C	1		-19.62164	
61	20-Sep-05	2	C	1		-18.021855	-18.821747
60	20-Sep-05	2	T	1	-14.77374748		
62	20-Sep-05	3	T	1	-17.39186094		
66	28-Sep-05	1	C	1		-17.900786	
68	28-Sep-05	2	C	1		-15.453836	-16.677311
64	28-Sep-05	1	T	1	-16.73600845		
67	28-Sep-05	2	T	1	-13.99657851		

69	28-Sep-05	3	T	1	-15.34602311		
73	4-Oct-05	3	T	1	-16.8588391		
76	25-Oct-05	1	C	1		-15.779165	
79	25-Oct-05	2	C	1		-15.046838	
83	25-Oct-05	3	C	1		-15.799504	
74	25-Oct-05	1	T	1	-12.21664052		
77	25-Oct-05	2	T	1	-14.34754415		
81	25-Oct-05	3	T	1	-11.80514767		
85	1-Nov-05	2	C	1		-15.651636	
84	1-Nov-05	1	T	1	-15.47570941		
89	28-Mar-06	1	C	1		-12.19007	
92	28-Mar-06	2	C	1		-13.375869	-12.78297
88	28-Mar-06	1	T	1	-12.68328844		
90	28-Mar-06	2	T	1	-11.81520397		
94	28-Mar-06	3	T	1	-13.20385067		
252	6-Apr-06	1	C	1		-15.009049	
251	6-Apr-06	2	C	1		-13.225826	
253	6-Apr-06	1	T	1	-13.11384248		
250	6-Apr-06	2	T	1	-19.4809992		
96	20-Apr-06	1	C	1		-9.8452776	
99	20-Apr-06	3	T	1	-14.49372793		
102	27-Apr-06	1	C	1		1.7767982	
105	27-Apr-06	2	C	1		-5.3273335	
109	27-Apr-06	3	C	1		-12.41043	
100	27-Apr-06	1	T	1	-10.70129872		
103	27-Apr-06	2	T	1	-11.44263488		
107	27-Apr-06	3	T	1	-9.061716932		
113	8-May-06	1	C	1		-10.962676	
116	8-May-06	2	C	1		-10.987011	
120	8-May-06	3	C	1		-12.487621	
111	8-May-06	1	T	1	-13.07470452		
114	8-May-06	2	T	1	-15.05967256		
118	8-May-06	3	T	1	-12.36563104		
122	26-May-06	1	C	1		-9.6465592	
125	26-May-06	2	C	1		-8.6810254	
128	26-May-06	3	C	1		-15.413684	
121	26-May-06	1	T	1	-8.739921876		
123	26-May-06	2	T	1	-12.48244993		

126	26-May-06	3	T	1	-11.11459953		
131	31-May-06	1	C	1		-7.657563	
134	31-May-06	2	C	1		-8.1258805	
137	31-May-06	3	C	1		-11.111282	
129	31-May-06	1	T	1	-10.69029748		
132	31-May-06	2	T	1	-12.79335691		
135	31-May-06	3	T	1	-8.928753836		
140	5-Jun-06	1	C	1		-8.1116898	
142	5-Jun-06	2	C	1		-11.20279	
146	5-Jun-06	3	C	1		-14.718865	
138	5-Jun-06	1	T	1	-11.49362379		
141	5-Jun-06	2	T	1	-12.30029022		
144	5-Jun-06	3	T	1	-11.85321622		
149	8-Jun-06	1	C	1		-15.782366	
152	8-Jun-06	2	C	1		-17.905813	
156	8-Jun-06	3	C	1		-14.931925	
147	8-Jun-06	1	T	1	-15.39273385		
150	8-Jun-06	2	T	1	-16.63890461		
154	8-Jun-06	3	T	1	-15.45660063		
158	15-Jun-06	1	C	1		-13.99289	
160	15-Jun-06	2	C	1		-12.409084	
162	15-Jun-06	3	C	1		-13.419012	
157	15-Jun-06	1	T	1	-13.42217083		
159	15-Jun-06	2	T	1	-17.0785812		
161	15-Jun-06	3	T	1	-12.62072277		
165	28-Jun-06	1	C	1		-14.582068	
167	28-Jun-06	2	C	1		-13.629138	-14.105603
163	28-Jun-06	1	T	1	-12.12556465		
166	28-Jun-06	2	T	1	-14.37730823		
168	28-Jun-06	3	T	1	-13.60131891		
172	26-Jul-06	1	C	1		-17.750166	
175	26-Jul-06	2	C	1		-20.219114	
178	26-Jul-06	3	C	1		-19.980324	
170	26-Jul-06	1	T	1	-12.8224608		
173	26-Jul-06	2	T	1	-20.46770235		
177	26-Jul-06	3	T	1	-16.69113684		
179	9-Aug-06	2	C	1		-17.943222	
180	9-Aug-06	3	T	1	-16.62002824		
182	16-Aug-06	1	C	1		-20.384567	

184	16-Aug-06	2	C	1		-18.739147	
186	16-Aug-06	3	C	1		-17.169308	
181	16-Aug-06	1	T	1	-16.36315401		
183	16-Aug-06	2	T	1	-18.47711074		
185	16-Aug-06	3	T	1	-15.27040868		
188	23-Aug-06	1	C	1		-18.93571	
190	23-Aug-06	2	C	1		-19.684629	
192	23-Aug-06	3	C	1		-19.056326	
187	23-Aug-06	1	T	1	-13.40254319		
189	23-Aug-06	2	T	1	-18.62001447		
191	23-Aug-06	3	T	1	-15.25772237		
194	30-Aug-06	1	C	1		-18.25415	
196	30-Aug-06	2	C	1		-17.815834	
198	30-Aug-06	3	C	1		-18.901918	
193	30-Aug-06	1	T	1	-14.34319255		
195	30-Aug-06	2	T	1	-18.64035678		
197	30-Aug-06	3	T	1	-14.76608766		
200	20-Sep-06	2	C	1		-16.147326	
202	20-Sep-06	3	C	1		-16.671172	-16.409249
199	20-Sep-06	1	T	1	-13.10109561		
201	20-Sep-06	3	T	1	-15.73261771		
205	27-Sep-06	2	C	1		-15.906931	
207	27-Sep-06	3	C	1		-17.966388	-16.93666
203	27-Sep-06	1	T	1	-12.78433285		
204	27-Sep-06	2	T	1	-18.61723189		
206	27-Sep-06	3	T	1	-15.77220449		
209	11-Oct-06	2	C	1		-18.35813	
210	11-Oct-06	3	C	1		-16.399094	-17.378612
208	11-Oct-06	1	T	1	-14.07536097		
212	17-Oct-06	2	C	1		-16.27033	
213	17-Oct-06	3	C	1		-15.641177	-15.955754
211	17-Oct-06	1	T	1	-15.04274044		
216	25-Oct-06	1	C	1		-17.544666	
219	25-Oct-06	2	C	1		-17.023616	
223	25-Oct-06	3	C	1		-15.676144	
214	25-Oct-06	1	T	1	-12.95429669		
217	25-Oct-06	2	T	1	-16.62423635		
221	25-Oct-06	3	T	1	-16.72736166		
227	9-Nov-06	1	C	1		-18.171664	

230	9-Nov-06	2	C	1		-16.194733	
232	9-Nov-06	3	C	1		-16.959113	
225	9-Nov-06	1	T	1	-13.71233143		
228	9-Nov-06	2	T	1	-15.6422316		
231	9-Nov-06	3	T	1	-15.3741126		
236	16-Nov-06	2	C	1		-12.890059	
238	16-Nov-06	3	C	1		-17.15952	-15.02479
233	16-Nov-06	1	T	1	-12.25606894		
237	16-Nov-06	3	T	1	-13.60400026		
241	13-Dec-06	1	C	1		-16.930433	
244	13-Dec-06	2	C	1		-18.208892	
248	13-Dec-06	3	C	1		-19.670719	
239	13-Dec-06	1	T	1	-14.0148067		
242	13-Dec-06	2	T	1	-17.06251499		
246	13-Dec-06	3	T	1	-16.09130515		
2	26-May-05	1	T	2	-27.54925482		
13	8-Jun-05	3	T	2	-17.57341439		
24	22-Jun-05	3	C	2		-23.68104	
15	22-Jun-05	1	T	2	-12.90371909		
19	22-Jun-05	2	T	2	-14.54016867		
40	17-Jul-05	3	T	2	-25.10368122		
46	17-Aug-05	1	T	2	-17.21963733		
49	17-Aug-05	2	T	2	-18.12679633		
55	24-Aug-05	1	C	2		-18.887581	
57	24-Aug-05	2	C	2		-22.419602	-20.653591
53	24-Aug-05	1	T	2	-16.01340772		
63	20-Sep-05	3	T	2	-19.60533447		
65	28-Sep-05	1	T	2	-17.95396508		
70	28-Sep-05	3	T	2	-19.59394598		
80	25-Oct-05	2	C	2		-18.122476	
75	25-Oct-05	1	T	2	-14.72027752		
78	25-Oct-05	2	T	2	-19.7461264		
93	28-Mar-06	2	C	2		2.6302637	
91	28-Mar-06	2	T	2	-19.30354322		
106	27-Apr-06	2	C	2		-13.123945	

110	27-Apr-06	3	C	2		-17.303739	-15.213842
101	27-Apr-06	1	T	2	-17.04927906		
104	27-Apr-06	2	T	2	-10.47224535		
108	27-Apr-06	3	T	2	-12.38728999		
117	8-May-06	2	C	2		-16.306737	
112	8-May-06	1	T	2	-6.859360406		
115	8-May-06	2	T	2	-12.78671664		
119	8-May-06	3	T	2	-12.38203149		
124	26-May-06	2	T	2	-7.228692205		
127	26-May-06	3	T	2	-12.8844493		
130	31-May-06	1	T	2	-13.68700722		
133	31-May-06	2	T	2	-7.646331634		
136	31-May-06	3	T	2	-6.629537623		
143	5-Jun-06	2	C	2		-15.758654	
139	5-Jun-06	1	T	2	-8.861539566		
145	5-Jun-06	3	T	2	-11.12139454		
153	8-Jun-06	2	C	2		-14.747309	
148	8-Jun-06	1	T	2	-17.26640321		
151	8-Jun-06	2	T	2	-18.15991837		
155	8-Jun-06	3	T	2	-15.74277854		
164	28-Jun-06	1	T	2	-13.3895262		
169	28-Jun-06	3	T	2	-14.87252382		
176	26-Jul-06	2	C	2		-20.947242	
171	26-Jul-06	1	T	2	-20.5532836		
174	26-Jul-06	2	T	2	-22.72030811		
220	25-Oct-06	2	C	2		-20.070638	
224	25-Oct-06	3	C	2		-20.445635	-20.258137
215	25-Oct-06	1	T	2	-15.73111944		
218	25-Oct-06	2	T	2	-17.36706049		
222	25-Oct-06	3	T	2	-19.15379895		
226	9-Nov-06	1	T	2	-14.21528859		
229	9-Nov-06	2	T	2	-18.90128019		
235	16-Nov-06	2	T	2	-16.96844042		
245	13-Dec-06	2	C	2		-15.378089	
249	13-Dec-06	3	C	2		-17.297046	-16.337567
240	13-Dec-06	1	T	2	-15.40098428		

243	13-Dec-06	2	T	2	-21.23298226		
247	13-Dec-06	3	T	2	-18.2544199		

sample #	date	rep	trt	depth	ug C from soil	ug C from char	fixed C char
4	26-May-05	2	C	1			
1	26-May-05	1	T	1	114.3684423	-12.15816654	0
5	26-May-05	3	T	1	-163.0936017		
8	8-Jun-05	1	C	1			
12	8-Jun-05	3	T	1	157.417273	-105.5619377	0
16	22-Jun-05	1	C	1			
20	22-Jun-05	2	C	1			
23	22-Jun-05	3	C	1			
14	22-Jun-05	1	T	1	48.93939763	4.998353656	4.998353656
18	22-Jun-05	2	T	1	29.76326365	-6.035473321	0
33	11-Jul-05	1	C	1			
32	11-Jul-05	1	T	1	765.6684353	-405.469843	0
38	17-Jul-05	2	C	1			
35	17-Jul-05	1	T	1	270.4929185	-85.11182838	0
41	24-Jul-05	1	T	1	827.09997	-353.1884592	0
43	24-Jul-05	2	T	1	298.2628426	-104.6865528	0
44	24-Jul-05	3	T	1	152.0323287	-30.51464458	0
47	17-Aug-05	1	C	1			
50	17-Aug-05	2	C	1			
45	17-Aug-05	1	T	1	434.6236624	-3.559329186	0
48	17-Aug-05	2	T	1	130.7102285	-18.10933708	0
51	17-Aug-05	3	T	1	38.30950373	4.022829262	4.022829262
54	24-Aug-05	1	C	1			
52	24-Aug-05	1	T	1	351.8277622	-73.40110885	0
56	24-Aug-05	2	T	1	336.0090777	-55.82522085	0
58	24-Aug-05	3	T	1	354.7304126	-69.39866794	0
59	20-Sep-05	1	C	1			
61	20-Sep-05	2	C	1			
60	20-Sep-05	2	T	1	504.1584727	-116.6665256	0
62	20-Sep-05	3	T	1	102.1016772	-12.78612748	0
66	28-Sep-05	1	C	1			
68	28-Sep-05	2	C	1			
64	28-Sep-05	1	T	1	423.018282	-40.80857617	0
67	28-Sep-05	2	T	1	487.6053979	-47.96775264	0

69	28-Sep-05	3	T	1	151.89553	-15.0190917	0
73	4-Oct-05	3	T	1	88.33918434	1.341796881	1.341796881
76	25-Oct-05	1	C	1			
79	25-Oct-05	2	C	1			
83	25-Oct-05	3	C	1			
74	25-Oct-05	1	T	1	1050.050013	-225.4413468	0
77	25-Oct-05	2	T	1	65.18558045	-3.151875153	0
81	25-Oct-05	3	T	1	67.06144031	-15.7524017	0
85	1-Nov-05	2	C	1			
84	1-Nov-05	1	T	1	394.6381326	-5.206687662	0
89	28-Mar-06	1	C	1			
92	28-Mar-06	2	C	1			
88	28-Mar-06	1	T	1	88.859688	2.717681405	2.717681405
90	28-Mar-06	2	T	1	25.67981745	-2.358228008	0
94	28-Mar-06	3	T	1	56.19046982	1.515396724	1.515396724
252	6-Apr-06	1	C	1			
251	6-Apr-06	2	C	1			
253	6-Apr-06	1	T	1	95.52429923	-11.5339235	0
250	6-Apr-06	2	T	1	142.885435	95.80588739	95.80588739
96	20-Apr-06	1	C	1			
99	20-Apr-06	3	T	1	51.55448146	16.73958462	16.73958462
102	27-Apr-06	1	C	1			
105	27-Apr-06	2	C	1			
109	27-Apr-06	3	C	1			
100	27-Apr-06	1	T	1	46.98020836	-4.434074476	0
103	27-Apr-06	2	T	1	38.44054353	13.53547341	13.53547341
107	27-Apr-06	3	T	1	42.28811356	-7.17078775	0
113	8-May-06	1	C	1			
116	8-May-06	2	C	1			
120	8-May-06	3	C	1			
111	8-May-06	1	T	1	61.11735055	8.20331533	8.20331533
114	8-May-06	2	T	1	57.65453074	17.07649329	17.07649329
118	8-May-06	3	T	1	64.24082328	-0.476558582	0
122	26-May-06	1	C	1			
125	26-May-06	2	C	1			
128	26-May-06	3	C	1			
121	26-May-06	1	T	1	38.37061099	-1.733337983	0
123	26-May-06	2	T	1	53.9680171	12.56498026	12.56498026

126	26-May-06	3	T	1	89.18445724	-21.66729836	0
131	31-May-06	1	C	1			
134	31-May-06	2	C	1			
137	31-May-06	3	C	1			
129	31-May-06	1	T	1	29.08029629	4.867233229	4.867233229
132	31-May-06	2	T	1	41.15579245	11.99338009	11.99338009
135	31-May-06	3	T	1	40.98426984	-4.499181782	0
140	5-Jun-06	1	C	1			
142	5-Jun-06	2	C	1			
146	5-Jun-06	3	C	1			
138	5-Jun-06	1	T	1	35.9104956	7.013414579	7.013414579
141	5-Jun-06	2	T	1	61.45645064	4.085380745	4.085380745
144	5-Jun-06	3	T	1	47.49961419	-8.02730204	0
149	8-Jun-06	1	C	1			
152	8-Jun-06	2	C	1			
156	8-Jun-06	3	C	1			
147	8-Jun-06	1	T	1	41.80197269	-1.213913189	0
150	8-Jun-06	2	T	1	66.77467401	-6.950680489	0
154	8-Jun-06	3	T	1	45.51765311	1.788457992	1.788457992
158	15-Jun-06	1	C	1			
160	15-Jun-06	2	C	1			
162	15-Jun-06	3	C	1			
157	15-Jun-06	1	T	1	75.82619145	-2.812319953	0
159	15-Jun-06	2	T	1	53.84239363	21.43107407	21.43107407
161	15-Jun-06	3	T	1	108.4687878	-5.348566546	0
165	28-Jun-06	1	C	1			
167	28-Jun-06	2	C	1			
163	28-Jun-06	1	T	1	55.03125579	-8.102431114	0
166	28-Jun-06	2	T	1	118.2395756	6.129371263	6.129371263
168	28-Jun-06	3	T	1	227.8514013	-7.555019998	0
172	26-Jul-06	1	C	1			
175	26-Jul-06	2	C	1			
178	26-Jul-06	3	C	1			
170	26-Jul-06	1	T	1	56.27507484	-17.34519345	0
173	26-Jul-06	2	T	1	39.36279942	1.172955131	1.172955131
177	26-Jul-06	3	T	1	74.96656217	-20.34671422	0
179	9-Aug-06	2	C	1			
180	9-Aug-06	3	T	1	759.7029856	-82.46403157	0
182	16-Aug-06	1	C	1			

184	16-Aug-06	2	C	1			
186	16-Aug-06	3	C	1			
181	16-Aug-06	1	T	1	811.7047662	-262.2512123	0
183	16-Aug-06	2	T	1	237.5885538	-6.025118897	0
185	16-Aug-06	3	T	1	383.885991	-53.83919923	0
188	23-Aug-06	1	C	1			
190	23-Aug-06	2	C	1			
192	23-Aug-06	3	C	1			
187	23-Aug-06	1	T	1	818.2232396	-293.8425126	0
189	23-Aug-06	2	T	1	145.4032037	-15.19122438	0
191	23-Aug-06	3	T	1	284.1819345	-79.65410588	0
194	30-Aug-06	1	C	1			
196	30-Aug-06	2	C	1			
198	30-Aug-06	3	C	1			
193	30-Aug-06	1	T	1	845.9348226	-228.6900865	0
195	30-Aug-06	2	T	1	183.5680938	14.88312948	14.88312948
197	30-Aug-06	3	T	1	649.5359661	-191.2836542	0
200	20-Sep-06	2	C	1			
202	20-Sep-06	3	C	1			
199	20-Sep-06	1	T	1	1240.648496	-261.2693585	0
201	20-Sep-06	3	T	1	177.242824	-12.72059153	0
205	27-Sep-06	2	C	1			
207	27-Sep-06	3	C	1			
203	27-Sep-06	1	T	1	864.3837687	-223.9659564	0
204	27-Sep-06	2	T	1	180.5102169	47.99844071	47.99844071
206	27-Sep-06	3	T	1	643.3751006	-108.2762116	0
209	11-Oct-06	2	C	1			
210	11-Oct-06	3	C	1			
208	11-Oct-06	1	T	1	806.3719224	-180.7746333	0
212	17-Oct-06	2	C	1			
213	17-Oct-06	3	C	1			
211	17-Oct-06	1	T	1	549.111105	-36.4157887	0
216	25-Oct-06	1	C	1			
219	25-Oct-06	2	C	1			
223	25-Oct-06	3	C	1			
214	25-Oct-06	1	T	1	551.4904263	-159.6614479	0
217	25-Oct-06	2	T	1	110.2938024	-3.614800062	0
221	25-Oct-06	3	T	1	167.3413955	14.55909604	14.55909604
227	9-Nov-06	1	C	1			

230	9-Nov-06	2	C	1			
232	9-Nov-06	3	C	1			
225	9-Nov-06	1	T	1	403.0684741	-119.0525792	0
228	9-Nov-06	2	T	1	146.9369477	-6.165266368	0
231	9-Nov-06	3	T	1	194.5409267	-22.94954215	0
236	16-Nov-06	2	C	1			
238	16-Nov-06	3	C	1			
233	16-Nov-06	1	T	1	379.6512612	-63.4984125	0
237	16-Nov-06	3	T	1	309.9065077	-72.46342343	0
241	13-Dec-06	1	C	1			
244	13-Dec-06	2	C	1			
248	13-Dec-06	3	C	1			
239	13-Dec-06	1	T	1	229.222278	-45.17186432	0
242	13-Dec-06	2	T	1	63.34055512	-6.181081211	0
246	13-Dec-06	3	T	1	75.61484113	-21.2802335	0
2	26-May-05	1	T	2	15.32991795	47.03520618	47.03520618
13	8-Jun-05	3	T	2	382.0711791	-207.6741065	0
24	22-Jun-05	3	C	2			
15	22-Jun-05	1	T	2	68.04119768	-46.10140201	0
19	22-Jun-05	2	T	2	23.17833192	-14.84741862	0
40	17-Jul-05	3	T	2	130.8307577	50.21833948	50.21833948
46	17-Aug-05	1	T	2	82.86541583	-24.55108893	0
49	17-Aug-05	2	T	2	119.0874471	-28.16660362	0
55	24-Aug-05	1	C	2			
57	24-Aug-05	2	C	2			
53	24-Aug-05	1	T	2	77.15542447	-27.97739637	0
63	20-Sep-05	3	T	2	227.4596961	-25.90383978	0
65	28-Sep-05	1	T	2	102.2480782	-1.587127968	0
70	28-Sep-05	3	T	2	260.2141348	41.54677155	41.54677155
80	25-Oct-05	2	C	2			
75	25-Oct-05	1	T	2	194.6907554	-47.01132981	0
78	25-Oct-05	2	T	2	165.1824958	29.58984625	29.58984625
93	28-Mar-06	2	C	2			
91	28-Mar-06	2	T	2	20.32175304	46.88743841	46.88743841
106	27-Apr-06	2	C	2			

110	27-Apr-06	3	C	2			
101	27-Apr-06	1	T	2	22.81560149	3.560716936	3.560716936
104	27-Apr-06	2	T	2	12.28950879	-1.777103527	0
108	27-Apr-06	3	T	2	44.6083967	-13.35436771	0
117	8-May-06	2	C	2			
112	8-May-06	1	T	2	26.246367	-11.29622222	0
115	8-May-06	2	T	2	23.27886469	-5.113937417	0
119	8-May-06	3	T	2	41.69505511	-9.961109666	0
124	26-May-06	2	T	2	19.63474242	-7.760586222	0
127	26-May-06	3	T	2	78.69819816	-14.20325893	0
130	31-May-06	1	T	2	26.4867177	-3.628324126	0
133	31-May-06	2	T	2	12.50783678	-4.79442413	0
136	31-May-06	3	T	2	31.34007892	-12.89906488	0
143	5-Jun-06	2	C	2			
139	5-Jun-06	1	T	2	38.80321731	-13.41608419	0
145	5-Jun-06	3	T	2	40.45632033	-10.60606212	0
153	8-Jun-06	2	C	2			
148	8-Jun-06	1	T	2	20.36872815	4.444952287	4.444952287
151	8-Jun-06	2	T	2	21.77511829	6.977407905	6.977407905
155	8-Jun-06	3	T	2	30.64358985	2.334447908	2.334447908
164	28-Jun-06	1	T	2	48.30186302	-4.25301189	0
169	28-Jun-06	3	T	2	137.3548498	1.233997226	1.233997226
176	26-Jul-06	2	C	2			
171	26-Jul-06	1	T	2	96.29319799	-4.594504977	0
174	26-Jul-06	2	T	2	74.89373078	21.80595184	21.80595184
220	25-Oct-06	2	C	2			
224	25-Oct-06	3	C	2			
215	25-Oct-06	1	T	2	539.8845886	-186.871251	0
218	25-Oct-06	2	T	2	238.2993778	-56.30204409	0
222	25-Oct-06	3	T	2	205.3611405	-27.47383814	0
226	9-Nov-06	1	T	2	780.2830704	-323.0712707	0
229	9-Nov-06	2	T	2	233.659628	-31.9963182	0
235	16-Nov-06	2	T	2	107.6292376	5.734073423	5.734073423
245	13-Dec-06	2	C	2			
249	13-Dec-06	3	C	2			
240	13-Dec-06	1	T	2	427.6127194	-29.8675834	0

243	13-Dec-06	2	T	2	19.51074892	15.07629572	15.07629572
247	13-Dec-06	3	T	2	302.0436666	27.3948569	27.3948569

sample #	date	rep	trt	depth	fixed C soil	fraction	%
						from char	from char
4	26-May-05	2	C	1			
1	26-May-05	1	T	1	102.2102758	0	0.00
5	26-May-05	3	T	1	-163.0936017	0	0.00
8	8-Jun-05	1	C	1			
12	8-Jun-05	3	T	1	51.85533535	0	0.00
16	22-Jun-05	1	C	1			
20	22-Jun-05	2	C	1			
23	22-Jun-05	3	C	1			
14	22-Jun-05	1	T	1	48.93939763	0.0926689	9.27
18	22-Jun-05	2	T	1	23.72779033	0	0.00
33	11-Jul-05	1	C	1			
32	11-Jul-05	1	T	1	360.1985923	0	0.00
38	17-Jul-05	2	C	1			
35	17-Jul-05	1	T	1	185.3810901	0	0.00
41	24-Jul-05	1	T	1	473.9115109	0	0.00
43	24-Jul-05	2	T	1	193.5762899	0	0.00
44	24-Jul-05	3	T	1	121.5176841	0	0.00
47	17-Aug-05	1	C	1			
50	17-Aug-05	2	C	1			
45	17-Aug-05	1	T	1	431.0643332	0	0.00
48	17-Aug-05	2	T	1	112.6008914	0	0.00
51	17-Aug-05	3	T	1	38.30950373	0.0950297	9.50
54	24-Aug-05	1	C	1			
52	24-Aug-05	1	T	1	278.4266533	0	0.00
56	24-Aug-05	2	T	1	280.1838569	0	0.00
58	24-Aug-05	3	T	1	285.3317447	0	0.00
59	20-Sep-05	1	C	1			
61	20-Sep-05	2	C	1			
60	20-Sep-05	2	T	1	387.4919471	0	0.00
62	20-Sep-05	3	T	1	89.31554972	0	0.00
66	28-Sep-05	1	C	1			
68	28-Sep-05	2	C	1			
64	28-Sep-05	1	T	1	382.2097059	0	0.00
67	28-Sep-05	2	T	1	439.6376453	0	0.00

69	28-Sep-05	3	T	1	136.8764383	0	0.00
73	4-Oct-05	3	T	1	88.33918434	0.0149619	1.50
76	25-Oct-05	1	C	1			
79	25-Oct-05	2	C	1			
83	25-Oct-05	3	C	1			
74	25-Oct-05	1	T	1	824.6086662	0	0.00
77	25-Oct-05	2	T	1	62.0337053	0	0.00
81	25-Oct-05	3	T	1	51.3090386	0	0.00
85	1-Nov-05	2	C	1			
84	1-Nov-05	1	T	1	389.431445	0	0.00
89	28-Mar-06	1	C	1			
92	28-Mar-06	2	C	1			
88	28-Mar-06	1	T	1	88.859688	0.0296763	2.97
90	28-Mar-06	2	T	1	23.32158944	0	0.00
94	28-Mar-06	3	T	1	56.19046982	0.0262607	2.63
252	6-Apr-06	1	C	1			
251	6-Apr-06	2	C	1			
253	6-Apr-06	1	T	1	83.99037573	0	0.00
250	6-Apr-06	2	T	1	142.885435	0.4013799	40.14
96	20-Apr-06	1	C	1			
99	20-Apr-06	3	T	1	51.55448146	0.2451104	24.51
102	27-Apr-06	1	C	1			
105	27-Apr-06	2	C	1			
109	27-Apr-06	3	C	1			
100	27-Apr-06	1	T	1	42.54613388	0	0.00
103	27-Apr-06	2	T	1	38.44054353	0.2604177	26.04
107	27-Apr-06	3	T	1	35.11732581	0	0.00
113	8-May-06	1	C	1			
116	8-May-06	2	C	1			
120	8-May-06	3	C	1			
111	8-May-06	1	T	1	61.11735055	0.1183387	11.83
114	8-May-06	2	T	1	57.65453074	0.2285061	22.85
118	8-May-06	3	T	1	63.7642647	0	0.00
122	26-May-06	1	C	1			
125	26-May-06	2	C	1			
128	26-May-06	3	C	1			
121	26-May-06	1	T	1	36.63727301	0	0.00
123	26-May-06	2	T	1	53.9680171	0.1888534	18.89

126	26-May-06	3	T	1	67.51715888	0	0.00
131	31-May-06	1	C	1			
134	31-May-06	2	C	1			
137	31-May-06	3	C	1			
129	31-May-06	1	T	1	29.08029629	0.1433752	14.34
132	31-May-06	2	T	1	41.15579245	0.2256551	22.57
135	31-May-06	3	T	1	36.48508806	0	0.00
140	5-Jun-06	1	C	1			
142	5-Jun-06	2	C	1			
146	5-Jun-06	3	C	1			
138	5-Jun-06	1	T	1	35.9104956	0.1633918	16.34
141	5-Jun-06	2	T	1	61.45645064	0.0623324	6.23
144	5-Jun-06	3	T	1	39.47231215	0	0.00
149	8-Jun-06	1	C	1			
152	8-Jun-06	2	C	1			
156	8-Jun-06	3	C	1			
147	8-Jun-06	1	T	1	40.5880595	0	0.00
150	8-Jun-06	2	T	1	59.82399352	0	0.00
154	8-Jun-06	3	T	1	45.51765311	0.0378061	3.78
158	15-Jun-06	1	C	1			
160	15-Jun-06	2	C	1			
162	15-Jun-06	3	C	1			
157	15-Jun-06	1	T	1	73.0138715	0	0.00
159	15-Jun-06	2	T	1	53.84239363	0.2847095	28.47
161	15-Jun-06	3	T	1	103.1202212	0	0.00
165	28-Jun-06	1	C	1			
167	28-Jun-06	2	C	1			
163	28-Jun-06	1	T	1	46.92882468	0	0.00
166	28-Jun-06	2	T	1	118.2395756	0.0492838	4.93
168	28-Jun-06	3	T	1	220.2963813	0	0.00
172	26-Jul-06	1	C	1			
175	26-Jul-06	2	C	1			
178	26-Jul-06	3	C	1			
170	26-Jul-06	1	T	1	38.92988138	0	0.00
173	26-Jul-06	2	T	1	39.36279942	0.0289363	2.89
177	26-Jul-06	3	T	1	54.61984795	0	0.00
179	9-Aug-06	2	C	1			
180	9-Aug-06	3	T	1	677.2389541	0	0.00
182	16-Aug-06	1	C	1			

184	16-Aug-06	2	C	1			
186	16-Aug-06	3	C	1			
181	16-Aug-06	1	T	1	549.453554	0	0.00
183	16-Aug-06	2	T	1	231.5634349	0	0.00
185	16-Aug-06	3	T	1	330.0467918	0	0.00
188	23-Aug-06	1	C	1			
190	23-Aug-06	2	C	1			
192	23-Aug-06	3	C	1			
187	23-Aug-06	1	T	1	524.380727	0	0.00
189	23-Aug-06	2	T	1	130.2119793	0	0.00
191	23-Aug-06	3	T	1	204.5278286	0	0.00
194	30-Aug-06	1	C	1			
196	30-Aug-06	2	C	1			
198	30-Aug-06	3	C	1			
193	30-Aug-06	1	T	1	617.2447361	0	0.00
195	30-Aug-06	2	T	1	183.5680938	0.0749964	7.50
197	30-Aug-06	3	T	1	458.252312	0	0.00
200	20-Sep-06	2	C	1			
202	20-Sep-06	3	C	1			
199	20-Sep-06	1	T	1	979.3791375	0	0.00
201	20-Sep-06	3	T	1	164.5222325	0	0.00
205	27-Sep-06	2	C	1			
207	27-Sep-06	3	C	1			
203	27-Sep-06	1	T	1	640.4178123	0	0.00
204	27-Sep-06	2	T	1	180.5102169	0.2100509	21.01
206	27-Sep-06	3	T	1	535.098889	0	0.00
209	11-Oct-06	2	C	1			
210	11-Oct-06	3	C	1			
208	11-Oct-06	1	T	1	625.5972891	0	0.00
212	17-Oct-06	2	C	1			
213	17-Oct-06	3	C	1			
211	17-Oct-06	1	T	1	512.6953163	0	0.00
216	25-Oct-06	1	C	1			
219	25-Oct-06	2	C	1			
223	25-Oct-06	3	C	1			
214	25-Oct-06	1	T	1	391.8289785	0	0.00
217	25-Oct-06	2	T	1	106.6790023	0	0.00
221	25-Oct-06	3	T	1	167.3413955	0.0800388	8.00
227	9-Nov-06	1	C	1			

230	9-Nov-06	2	C	1			
232	9-Nov-06	3	C	1			
225	9-Nov-06	1	T	1	284.0158949	0	0.00
228	9-Nov-06	2	T	1	140.7716813	0	0.00
231	9-Nov-06	3	T	1	171.5913845	0	0.00
236	16-Nov-06	2	C	1			
238	16-Nov-06	3	C	1			
233	16-Nov-06	1	T	1	316.1528487	0	0.00
237	16-Nov-06	3	T	1	237.4430842	0	0.00
241	13-Dec-06	1	C	1			
244	13-Dec-06	2	C	1			
248	13-Dec-06	3	C	1			
239	13-Dec-06	1	T	1	184.0504137	0	0.00
242	13-Dec-06	2	T	1	57.15947391	0	0.00
246	13-Dec-06	3	T	1	54.33460763	0	0.00
2	26-May-05	1	T	2	15.32991795	0.7541909	75.42
13	8-Jun-05	3	T	2	174.3970726	0	0.00
24	22-Jun-05	3	C	2			
15	22-Jun-05	1	T	2	21.93979566	0	0.00
19	22-Jun-05	2	T	2	8.330913302	0	0.00
40	17-Jul-05	3	T	2	130.8307577	0.2773742	27.74
46	17-Aug-05	1	T	2	58.3143269	0	0.00
49	17-Aug-05	2	T	2	90.92084347	0	0.00
55	24-Aug-05	1	C	2			
57	24-Aug-05	2	C	2			
53	24-Aug-05	1	T	2	49.1780281	0	0.00
63	20-Sep-05	3	T	2	201.5558563	0	0.00
65	28-Sep-05	1	T	2	100.6609503	0	0.00
70	28-Sep-05	3	T	2	260.2141348	0.1376811	13.77
80	25-Oct-05	2	C	2			
75	25-Oct-05	1	T	2	147.6794256	0	0.00
78	25-Oct-05	2	T	2	165.1824958	0.1519202	15.19
93	28-Mar-06	2	C	2			
91	28-Mar-06	2	T	2	20.32175304	0.6976343	69.76
106	27-Apr-06	2	C	2			

110	27-Apr-06	3	C	2			
101	27-Apr-06	1	T	2	22.81560149	0.1349967	13.50
104	27-Apr-06	2	T	2	10.51240526	0	0.00
108	27-Apr-06	3	T	2	31.25402898	0	0.00
117	8-May-06	2	C	2			
112	8-May-06	1	T	2	14.95014478	0	0.00
115	8-May-06	2	T	2	18.16492727	0	0.00
119	8-May-06	3	T	2	31.73394545	0	0.00
124	26-May-06	2	T	2	11.8741562	0	0.00
127	26-May-06	3	T	2	64.49493924	0	0.00
130	31-May-06	1	T	2	22.85839357	0	0.00
133	31-May-06	2	T	2	7.713412651	0	0.00
136	31-May-06	3	T	2	18.44101404	0	0.00
143	5-Jun-06	2	C	2			
139	5-Jun-06	1	T	2	25.38713312	0	0.00
145	5-Jun-06	3	T	2	29.85025821	0	0.00
153	8-Jun-06	2	C	2			
148	8-Jun-06	1	T	2	20.36872815	0.1791331	17.91
151	8-Jun-06	2	T	2	21.77511829	0.2426711	24.27
155	8-Jun-06	3	T	2	30.64358985	0.070788	7.08
164	28-Jun-06	1	T	2	44.04885113	0	0.00
169	28-Jun-06	3	T	2	137.3548498	0.008904	0.89
176	26-Jul-06	2	C	2			
171	26-Jul-06	1	T	2	91.69869301	0	0.00
174	26-Jul-06	2	T	2	74.89373078	0.2255018	22.55
220	25-Oct-06	2	C	2			
224	25-Oct-06	3	C	2			
215	25-Oct-06	1	T	2	353.0133377	0	0.00
218	25-Oct-06	2	T	2	181.9973338	0	0.00
222	25-Oct-06	3	T	2	177.8873023	0	0.00
226	9-Nov-06	1	T	2	457.2117997	0	0.00
229	9-Nov-06	2	T	2	201.6633098	0	0.00
235	16-Nov-06	2	T	2	107.6292376	0.0505814	5.06
245	13-Dec-06	2	C	2			
249	13-Dec-06	3	C	2			
240	13-Dec-06	1	T	2	397.745136	0	0.00

243	13-Dec-06	2	T	2	19.51074892	0.4358943	43.59
247	13-Dec-06	3	T	2	302.0436666	0.0831562	8.32

Table A3. Data for Figure 1.2d. Particle size distribution was determined using a stack of sieves on the top of which pre-soaked BC was added. The samples were gently washed through with a squeeze bottle, and fractions remaining on each sieve were dried and weighed.

	Biochar 2	Biochar 1
	2006	2004
>2mm	44.85	47.48
1-2mm	8.66	7.43
500-1000 um	10.93	7.66
250-500	8.98	6.78
100-250	6.68	5.94
53-100	3.32	3.21
38-53	10.54	2.09
<38	6.02	19.42
total	99.99	100.02

Table A4. Soil particle size distribution

No.	plot	rep	trt (t char C/ha)	depth	% sand	% silt	% clay
1	<i>1</i>	<i>1</i>	<i>116.1</i>	15	63.64	15.64	20.72
2	<i>1</i>	<i>1</i>	<i>116.1</i>	30	57.87	15.41	26.72
3	<i>1</i>	<i>1</i>	<i>116.1</i>	60	51.54	16.68	31.78
4	<i>1</i>	<i>1</i>	<i>116.1</i>	120	43.98	19.20	36.82
5	<i>1</i>	<i>1</i>	<i>116.1</i>	200	42.72	20.46	36.82
6	<i>2</i>	<i>1</i>	<i>23.2</i>	15	59.09	15.43	25.48
7	<i>2</i>	<i>1</i>	<i>23.2</i>	30	55.39	15.40	29.21
8	<i>2</i>	<i>1</i>	<i>23.2</i>	60	51.59	15.41	33.01
9	<i>2</i>	<i>1</i>	<i>23.2</i>	120	45.10	19.25	35.65
10	<i>2</i>	<i>1</i>	<i>23.2</i>	200	45.19	17.96	36.85
11	<i>3</i>	<i>1</i>	<i>11.6</i>	15	59.16	15.40	25.44
12	<i>3</i>	<i>1</i>	<i>11.6</i>	30	55.40	15.40	29.21
13	<i>3</i>	<i>1</i>	<i>11.6</i>	60	50.34	16.66	33.00
14	<i>3</i>	<i>1</i>	<i>11.6</i>	120	44.04	19.18	36.78
15	<i>3</i>	<i>1</i>	<i>11.6</i>	200	43.83	19.25	36.92
16	<i>4</i>	<i>1</i>	<i>0</i>	15	54.21	15.37	30.42

17	4	1	0	30	55.43	14.13	30.45
18	4	1	0	60	52.88	14.14	32.98
19	4	1	0	120	46.57	17.92	35.51
20	4	1	0	200	45.19	17.96	36.85
21	5	2	23.2	15	59.15	16.66	24.19
22	5	2	23.2	30	54.11	16.66	29.22
23	5	2	23.2	60	49.08	16.66	34.26
24	5	2	23.2	120	45.17	17.97	36.86
25	5	2	23.2	200	43.99	17.94	38.07
26	6	2	0	15	54.68	19.63	25.69
27	6	2	0	30	54.65	17.12	28.23
28	6	2	0	60	50.89	17.12	31.99
29	6	2	0	120	45.78	18.40	35.82
30	6	2	0	200	45.71	17.16	37.12
31	7	2	116.1	15	63.52	15.10	21.38
32	7	2	116.1	30	55.91	17.12	26.97
33	7	2	116.1	60	52.07	15.88	32.04
34	7	2	116.1	120	43.27	19.66	37.07
35	7	2	116.1	200	45.69	17.17	37.14
36	8	2	11.6	15	57.11	15.88	27.00
37	8	2	11.6	30	53.40	15.86	30.74
38	8	2	11.6	60	49.62	17.12	33.26
39	8	2	11.6	120	44.59	18.38	37.03
40	8	2	11.6	200	44.61	18.37	37.02
41	9	3	0	15	59.73	15.85	24.42
42	9	3	0	30	53.49	15.83	30.68
43	9	3	0	60	48.44	18.35	33.21
44	9	3	0	120	43.36	19.63	37.01
45	9	3	0	200	44.56	18.39	37.05
46	10	3	116.1	15	60.37	18.65	20.98
47	10	3	116.1	30	54.57	17.15	28.28
48	10	3	116.1	60	50.70	15.92	33.38
49	10	3	116.1	120	44.64	18.36	37.00
50	10	3	116.1	200	43.32	18.38	38.30
51	11	3	11.6	15	58.23	17.60	24.17
52	11	3	11.6	30	53.23	16.33	30.43
53	11	3	11.6	60	49.47	17.59	32.94
54	11	3	11.6	120	43.04	20.15	36.80
55	11	3	11.6	200	45.51	17.65	36.84
56	12	3	23.2	15	58.19	16.36	25.45
57	12	3	23.2	30	53.18	16.35	30.46
58	12	3	23.2	60	49.43	16.34	34.22
59	12	3	23.2	120	44.36	18.87	36.77
60	12	3	23.2	200	44.14	17.68	38.17

Table A5. Data for Fig. 2.1. Soil bulk density and saturated hydraulic conductivity

rep	trt	depth	subs	ring+lid (g)	dry soil+ring+lid (g)	dry soil (g)	density (g/cm ³)
1	0	0-5	A	71.3	192.5	121.2	1.23
1	0	0-5	B	76.6	218.0	141.4	1.44
1	0	15	A	77.3	214.5	137.2	1.40
1	0	15	B	75.9	216.3	140.4	1.43
1	0	30	A	74.9	201.0	126.1	1.28
1	0	30	B	75.7	196.4	120.7	1.23
1	13	0-5	A	83.1	201.7	118.6	1.21
1	13	0-5	B	79.1	194.3	115.2	1.17
1	13	15	A	74.4	216.9	142.5	1.45
1	13	15	B	78.9	210.4	131.5	1.34
1	13	30	A	73.1	209.0	135.9	1.38
1	13	30	B	73.6	215.1	141.5	1.44
1	26	0-5	A	71.7	220.4	148.7	1.51
1	26	0-5	B	71.1	177.4	106.3	1.08
1	26	15	A	69.7	171.8	102.1	1.04
1	26	15	B	78.7	224.9	146.2	1.49
1	26	30	A	72.8	212.6	139.8	1.42
1	26	30	B	71.5	210.0	138.5	1.41
1	130	0-5	A	73.9	120.4	46.5	0.47
1	130	0-5	B	73.1	165.8	92.7	0.94
1	130	15	A	80.6	154.2	73.6	0.75
1	130	15	B	77.7	200.7	123.0	1.25
1	130	30	A	78.0	218.5	140.5	1.43
1	130	30	B	77.2	217.4	140.2	1.43
2	0	0-5	A	76.4	208.5	132.1	1.35
2	0	0-5	B	76.4	114.5	38.1	
2	0	15	A	88.3	239.9	151.6	1.54
2	0	15	B	71.1	203.9	132.8	1.35
2	0	30	A	76.2	207.7	131.5	1.34
2	0	30	B	74.6	217.9	143.3	1.46
2	13	0-5	A	76.8	157.7	80.9	0.82
2	13	0-5	B	74.3	182.7	108.4	1.10
2	13	15	A	76.8	206.1	129.3	1.32
2	13	15	B	75.7	212.7	137.0	1.40
2	13	30	A	76.2	205.4	129.2	1.32
2	13	30	B	73.3	201.7	128.4	1.31
2	26	0-5	A	72.3	172.7	100.4	1.02
2	26	0-5	B	72.9	198.7	125.8	1.28

2	26	15	A	74.6	212.7	138.1	1.41
2	26	15	B	75.0	217.7	142.7	1.45
2	26	30	A	80.0	207.3	127.3	1.30
2	26	30	B	72.2	209.0	136.8	1.39
2	130	0-5	A	76.4	151.4	75.0	0.76
2	130	0-5	B	75.0	132.1	57.1	0.58
2	130	15	A	75.5	161.2	85.7	0.87
2	130	15	B	76.4	170.0	93.6	0.95
2	130	30	A	72.0	205.4	133.4	1.36
2	130	30	B	72.2	207.0	134.8	1.37
3	0	0-5	A	78.8	203.0	124.2	1.27
3	0	0-5	B	71.8	178.2	106.4	1.08
3	0	15	A	75.5	223.4	147.9	1.51
3	0	15	B	74.6	212.1	137.5	1.40
3	0	30	A	73.3	214.7	141.4	1.44
3	0	30	B	72.8	211.7	138.9	1.41
3	13	0-5	A	73.3	174.9	101.6	1.03
3	13	0-5	B	74.4	193.1	118.7	1.21
3	13	15	A	77.3	217.3	140.0	1.43
3	13	15	B	73.8	215.4	141.6	1.44
3	13	30	A	79.9	217.1	137.2	1.40
3	13	30	B	80.5	226.3	145.8	1.49
3	26	0-5	A	70.8	156.9	86.1	0.88
3	26	0-5	B	100.0	197.4	97.4	0.99
3	26	15	A	71.7	211.0	139.3	1.42
3	26	15	B	91.4	232.7	141.3	1.44
3	26	30	A	80.5	226.4	145.9	1.49
3	26	30	B	72.3	215.9	143.6	1.46
3	130	0-5	A	90.8	177.8	87.0	0.89
3	130	0-5	B	78.1	126.8	48.7	0.50
3	130	15	A	93.5	222.1	128.6	1.31
3	130	15	B	76.2	214.8	138.6	1.41
3	130	30	A	76.8	212.0	135.2	1.38
3	130	30	B	79.4	219.1	139.7	1.42
		60	1	85.3	230.3	145.0	1.48
		60	2	77.4	216.8	139.4	1.42
		60	3	74.2	215.7	141.5	1.44
		60	4	73.1	216.2	143.1	1.46
		120	1	76.6	213.4	136.8	1.39
		120	2	80.8	214.4	133.6	1.36
		120	3	72.9	202.7	129.8	1.32
		120	4	76.8	205.4	128.6	1.31
		200	1	82.4	218.5	136.1	1.39
		200	2	72.7	209.1	136.4	1.39
		200	3	73.8	209.4	135.6	1.38

	200	4	100.8	232.0	131.2	1.34
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					Sat hydraul
					cond
sample #	rep	trt	depth	subs.	cm/h
63	1	C	15	A	4.36
64	1	C	15	B	1.78
75	2	C	15	A	1.19
76	2	C	15	B	3.77
87	3	C	15	A	1.29
88	3	C	15	B	0.59
57	1	T	15	A	1.98
58	1	T	15	B	3.96
69	2	T	15	A	0.79
70	2	T	15	B	1.29
81	3	T	15	A	0.99
82	3	T	15	B	1.39
65	1	C	30	A	27.75
66	1	C	30	B	17.04
77	2	C	30	A	9.91
78	2	C	30	B	4.16
89	3	C	30	A	5.95
90	3	C	30	B	0.69
59	1	T	30	A	2.18
60	1	T	30	B	2.97
71	2	T	30	A	2.97
72	2	T	30	B	0.99
83	3	T	30	A	0.99
84	3	T	30	B	0.50
61	1	C	0-5	A	5.95
62	1	C	0-5	B	0.79
73	2	C	0-5	A	1.19
74	2	C	0-5	B	1.19
85	3	C	0-5	A	5.25
86	3	C	0-5	B	1.98
55	1	T	0-5	A	14.86
56	1	T	0-5	B	22.79

67	2	T	0-5	A	9.91
68	2	T	0-5	B	18.43
79	3	T	0-5	A	7.33
80	3	T	0-5	B	7.33
91	1		60	A	0.79
92	1		60	B	1.19
93	1		120	A	1.78
94	1		120	B	1.19
95	1		200	A	0.50
96	1		200	B	0.59
97	2		60	A	0.99
98	2		60	B	0.76
99	2		120	A	0.59
100	2		120	B	0.40
101	2		200	A	0.99
102	2		200	B	0.40

Table A6. CO₂ respired (in 24h)

plot age	date	trt	rep	sub	CO2 resp	CO2 resp C kg/ha	prop from BC	from BC C kg/ha
1	18-May	C	1	1	0.7099391	33.078	0.00	0
1	18-May	C	1	2	0.8801909	41.010	0.00	0
1	18-May	C	2	1	0.5029663	23.434	0.00	0
1	18-May	C	2	2	0.6581959	30.667	0.00	0
1	18-May	C	3	1	0.6264823	29.189	0.00	0
1	18-May	C	3	2	0.7383144	34.400	0.00	0
1	26-May	C	1	1	0.6794289	31.656	0.00	0
1	26-May	C	1	2	0.8924318	41.580	0.00	0
1	26-May	C	2	1	0.2416828	11.261	0.00	0
1	26-May	C	2	2	0.6374992	29.703	0.00	0
1	26-May	C	3	1	0.4630716	21.576	0.00	0
1	26-May	C	3	2	0.5469311	25.483	0.00	0
1	31-May	C	1	1	0.8689592	40.487	0.00	0
1	31-May	C	1	2	1.0104101	47.077	0.00	0
1	31-May	C	2	1	0.5330131	24.834	0.00	0
1	31-May	C	2	2	0.6583901	30.676	0.00	0
1	31-May	C	3	1	0.7178638	33.447	0.00	0
1	31-May	C	3	2	0.690538	32.174	0.00	0
1	8-Jun	C	1	1	0.726281	33.839	0.00	0
1	8-Jun	C	1	2	0.6592397	30.715	0.00	0
1	8-Jun	C	2	1	0.2486116	11.583	0.00	0
1	8-Jun	C	2	2	0.4866083	22.672	0.00	0

1	8-Jun	C	3	1	0.2134149	9.943	0.00	0
1	8-Jun	C	3	2	0.4430314	20.642	0.00	0
1	14-Jun	C	1	1	0.6843244	31.884	0.00	0
1	14-Jun	C	1	2	0.7118811	33.168	0.00	0
1	14-Jun	C	2	1	0.57582	26.829	0.00	0
1	14-Jun	C	2	2	0.6257665	29.156	0.00	0
1	14-Jun	C	3	1	0.7635499	35.575	0.00	0
1	14-Jun	C	3	2	0.7394378	34.452	0.00	0
1	21-Jun	C	1	1	1.0098041	47.049	0.00	0
1	21-Jun	C	1	2	0.692597	32.270	0.00	0
1	21-Jun	C	2	1	0.5180491	24.137	0.00	0
1	21-Jun	C	2	2	0.6523167	30.393	0.00	0
1	21-Jun	C	3	1	0.6372116	29.689	0.00	0
1	21-Jun	C	3	2	0.6456033	30.080	0.00	0
1	28-Jun	C	1	1	0.7682152	35.793	0.00	0
1	28-Jun	C	1	2	0.6673663	31.094	0.00	0
1	28-Jun	C	2	1	0.627688	29.245	0.00	0
1	28-Jun	C	2	2	0.690512	32.172	0.00	0
1	28-Jun	C	3	1	0.6491804	30.247	0.00	0
1	28-Jun	C	3	2	0.7202707	33.559	0.00	0
1	5-Jul	C	1	1	0.4805233	22.389	0.00	0
1	5-Jul	C	1	2	0.4467233	20.814	0.00	0
1	5-Jul	C	2	1	0.3081433	14.357	0.00	0
1	5-Jul	C	2	2	0.3723633	17.349	0.00	0
1	5-Jul	C	3	1	0.3368733	15.696	0.00	0
1	5-Jul	C	3	2	0.3537733	16.483	0.00	0
1	12-Jul	C	1	1	1.1233368	52.339	0.00	0
1	12-Jul	C	1	2	1.0363035	48.284	0.00	0
1	12-Jul	C	2	1	0.440996	20.547	0.00	0
1	12-Jul	C	2	2	0.461884	21.520	0.00	0
1	12-Jul	C	3	1	0.420108	19.574	0.00	0
1	12-Jul	C	3	2	0.4792906	22.331	0.00	0
1	20-Jul	C	1	1	0.8978605	41.833	0.00	0
1	20-Jul	C	1	2	0.9250455	43.100	0.00	0
1	20-Jul	C	2	1	0.6214795	28.956	0.00	0
1	20-Jul	C	2	2	0.857083	39.933	0.00	0
1	20-Jul	C	3	1	0.6985037	32.545	0.00	0
1	20-Jul	C	3	2	0.8072438	37.611	0.00	0
1	26-Jul	C	1	1	1.0661096	49.672	0.00	0
1	26-Jul	C	1	2	1.0797777	50.309	0.00	0
1	26-Jul	C	2	1	0.760856	35.450	0.00	0
1	26-Jul	C	2	2	1.0114373	47.125	0.00	0
1	26-Jul	C	3	1	1.0752216	50.097	0.00	0
1	26-Jul	C	3	2	0.952209	44.366	0.00	0
1	2-Aug	C	1	1	0.9442909	43.997	0.00	0
1	2-Aug	C	1	2	0.8417856	39.221	0.00	0
1	2-Aug	C	2	1	0.8355732	38.931	0.00	0
1	2-Aug	C	2	2	0.8262545	38.497	0.00	0

1	2-Aug	C	3	1	0.6864746	31.984	0.00	0
1	2-Aug	C	3	2	0.8386794	39.076	0.00	0
1	9-Aug	C	1	1	0.5366048	25.002	0.00	0
1	9-Aug	C	1	2	0.5211588	24.282	0.00	0
1	9-Aug	C	2	1	0.4301992	20.044	0.00	0
1	9-Aug	C	2	2	0.4731047	22.043	0.00	0
1	9-Aug	C	3	1	0.4816858	22.443	0.00	0
1	9-Aug	C	3	2	0.4868344	22.683	0.00	0
1	16-Aug	C	1	1	0.404755	18.858	0.00	0
1	16-Aug	C	1	2	0.406445	18.937	0.00	0
1	16-Aug	C	2	1	0.279695	13.032	0.00	0
1	16-Aug	C	2	2	0.330395	15.394	0.00	0
1	16-Aug	C	3	1	0.303355	14.134	0.00	0
1	16-Aug	C	3	2	0.347295	16.181	0.00	0
1	30-Aug	C	1	1	0.5498133	25.617	0.00	0
1	30-Aug	C	1	2	0.4281333	19.948	0.00	0
1	30-Aug	C	2	1	0.4889733	22.782	0.00	0
1	30-Aug	C	2	2	0.3960233	18.452	0.00	0
1	30-Aug	C	3	1	0.4940433	23.019	0.00	0
1	30-Aug	C	3	2	0.3825033	17.822	0.00	0
1	13-Sep	C	1	1	0.4405952	20.528	0.00	0
1	13-Sep	C	1	2	0.4199423	19.566	0.00	0
1	13-Sep	C	2	1	0.4388741	20.448	0.00	0
1	13-Sep	C	2	2	0.3287253	15.316	0.00	0
1	13-Sep	C	3	1	0.3803576	17.722	0.00	0
1	13-Sep	C	3	2	0.299467	13.953	0.00	0
1	27-Sep	C	1	1	0.5285263	24.625	0.00	0
1	27-Sep	C	1	2	0.5540179	25.813	0.00	0
1	27-Sep	C	2	1	0.5251274	24.467	0.00	0
1	27-Sep	C	2	2	0.4469531	20.825	0.00	0
1	27-Sep	C	3	1	0.4911385	22.883	0.00	0
1	27-Sep	C	3	2	0.4146637	19.320	0.00	0
1	11-Oct	C	1	1	0.7106427	33.110	0.00	0
1	11-Oct	C	1	2	0.6651391	30.990	0.00	0
1	11-Oct	C	2	1	0.9095102	42.376	0.00	0
1	11-Oct	C	2	2	0.6651391	30.990	0.00	0
1	11-Oct	C	3	1	0.7932233	36.958	0.00	0
1	11-Oct	C	3	2	0.5606493	26.122	0.00	0
1	25-Oct	C	1	1	0.4789383	22.315	0.00	0
1	25-Oct	C	1	2	0.4688613	21.845	0.00	0
1	25-Oct	C	2	1	0.4554253	21.219	0.00	0
1	25-Oct	C	2	2	0.4856563	22.628	0.00	0
1	25-Oct	C	3	1	0.4772588	22.237	0.00	0
1	25-Oct	C	3	2	0.3983222	18.559	0.00	0
1	8-Nov	C	1	1	0.6325897	29.474	0.00	0
1	8-Nov	C	1	2	0.3524388	16.421	0.00	0
1	8-Nov	C	2	1	0.7051589	32.855	0.00	0
1	8-Nov	C	2	2	0.4064438	18.937	0.00	0

1	8-Nov	C	3	1	0.5836477	27.193	0.00	0
1	8-Nov	C	3	2	0.4199451	19.566	0.00	0
1	22-Nov	C	1	1	0.6362009	29.642	0.00	0
1	22-Nov	C	1	2	0.5168035	24.079	0.00	0
1	22-Nov	C	2	1	0.5062684	23.588	0.00	0
1	22-Nov	C	2	2	0.5326061	24.815	0.00	0
1	22-Nov	C	3	1	0.5466528	25.470	0.00	0
1	22-Nov	C	3	2	0.5168035	24.079	0.00	0
1	6-Dec	C	1	1	0.3897937	18.161	0.00	0
1	6-Dec	C	1	2	0.435519	20.292	0.00	0
1	6-Dec	C	2	1	0.4287449	19.976	0.00	0
1	6-Dec	C	2	2	0.4135031	19.266	0.00	0
1	6-Dec	C	3	1	0.4270514	19.897	0.00	0
1	6-Dec	C	3	2	0.4135031	19.266	0.00	0
2	6-Apr-06	C	1	1	0.426	19.831	0.00	0.000
2	6-Apr-06	C	1	2	0.357	16.632	0.00	0.000
2	6-Apr-06	C	2	1	0.419	19.511	0.00	0.000
2	6-Apr-06	C	2	2	0.354	16.472	0.00	0.000
2	6-Apr-06	C	3	1	0.443	20.630	0.00	0.000
2	6-Apr-06	C	3	2	0.336	15.673	0.00	0.000
2	20-Apr-06	C	1	1	0.479	22.299	0.00	0.000
2	20-Apr-06	C	1	2	0.352	16.385	0.00	0.000
2	20-Apr-06	C	2	1	0.408	18.987	0.00	0.000
2	20-Apr-06	C	2	2	0.348	16.227	0.00	0.000
2	20-Apr-06	C	3	1	0.450	20.958	0.00	0.000
2	20-Apr-06	C	3	2	0.277	12.916	0.00	0.000
2	27-Apr-06	C	1	1	0.527	24.559	0.00	0.000
2	27-Apr-06	C	1	2	0.316	14.743	0.00	0.000
2	27-Apr-06	C	2	1	0.416	19.381	0.00	0.000
2	27-Apr-06	C	2	2	0.328	15.284	0.00	0.000
2	27-Apr-06	C	3	1	0.411	19.149	0.00	0.000
2	27-Apr-06	C	3	2	0.326	15.207	0.00	0.000
2	4-May-06	C	1	1	0.481	22.410	0.00	0.000
2	4-May-06	C	1	2	0.317	14.772	0.00	0.000
2	4-May-06	C	2	1	0.358	16.662	0.00	0.000
2	4-May-06	C	2	2	0.307	14.299	0.00	0.000
2	4-May-06	C	3	1	0.312	14.536	0.00	0.000
2	4-May-06	C	3	2	0.234	10.913	0.00	0.000
2	11-May-06	C	1	1	0.457	21.293	0.00	0.000
2	11-May-06	C	1	2	0.301	14.029	0.00	0.000
2	11-May-06	C	2	1	0.379	17.661	0.00	0.000
2	11-May-06	C	2	2	0.315	14.660	0.00	0.000
2	11-May-06	C	3	1	0.393	18.292	0.00	0.000
2	11-May-06	C	3	2	.	.	0.00	.
2	18-May-06	C	1	1	0.369	17.187	0.00	0.000
2	18-May-06	C	1	2	0.255	11.899	0.00	0.000
2	18-May-06	C	2	1	0.364	16.954	0.00	0.000
2	18-May-06	C	2	2	0.324	15.087	0.00	0.000

2	18-May-06	C	3	1	0.352	16.409	0.00	0.000
2	18-May-06	C	3	2	0.254	11.821	0.00	0.000
2	26-May-06	C	1	1	0.402	18.708	0.00	0.000
2	26-May-06	C	1	2	0.249	11.597	0.00	0.000
2	26-May-06	C	2	1	0.294	13.706	0.00	0.000
2	26-May-06	C	2	2	0.252	11.753	0.00	0.000
2	26-May-06	C	3	1	0.267	12.456	0.00	0.000
2	26-May-06	C	3	2	0.157	7.299	0.00	0.000
2	31-May-06	C	1	1	0.504	23.486	0.00	0.000
2	31-May-06	C	1	2	0.321	14.948	0.00	0.000
2	31-May-06	C	2	1	0.408	18.993	0.00	0.000
2	31-May-06	C	2	2	0.351	16.371	0.00	0.000
2	31-May-06	C	3	1	0.446	20.790	0.00	0.000
2	31-May-06	C	3	2	0.297	13.825	0.00	0.000
2	8-Jun-08	C	1	1	0.326	15.176	0.00	0.000
2	8-Jun-08	C	1	2	0.155	7.210	0.00	0.000
2	8-Jun-08	C	2	1	0.195	9.084	0.00	0.000
2	8-Jun-08	C	2	2	0.259	12.052	0.00	0.000
2	8-Jun-08	C	3	1	0.215	10.022	0.00	0.000
2	8-Jun-08	C	3	2	0.257	11.974	0.00	0.000
2	14-Jun-06	C	1	1	0.584	27.230	0.00	0.000
2	14-Jun-06	C	1	2	0.326	15.193	0.00	0.000
2	14-Jun-06	C	2	1	0.438	20.409	0.00	0.000
2	14-Jun-06	C	2	2	0.333	15.514	0.00	0.000
2	14-Jun-06	C	3	1	0.466	21.693	0.00	0.000
2	14-Jun-06	C	3	2	0.364	16.959	0.00	0.000
2	21-Jun-06	C	1	1	0.543	25.310	0.00	0.000
2	21-Jun-06	C	1	2	0.313	14.597	0.00	0.000
2	21-Jun-06	C	2	1	0.432	20.149	0.00	0.000
2	21-Jun-06	C	2	2	0.330	15.379	0.00	0.000
2	21-Jun-06	C	3	1	0.463	21.557	0.00	0.000
2	21-Jun-06	C	3	2	0.322	14.988	0.00	0.000
2	28-Jun-06	C	1	1	0.486	22.621	0.00	0.000
2	28-Jun-06	C	1	2	0.340	15.842	0.00	0.000
2	28-Jun-06	C	2	1	0.378	17.614	0.00	0.000
2	28-Jun-06	C	2	2	0.347	16.150	0.00	0.000
2	28-Jun-06	C	3	1	0.400	18.615	0.00	0.000
2	28-Jun-06	C	3	2	0.292	13.608	0.00	0.000
2	5-Jul-06	C	1	1	0.340	15.853	0.00	0.000
2	5-Jul-06	C	1	2	0.276	12.861	0.00	0.000
2	5-Jul-06	C	2	1	0.254	11.837	0.00	0.000
2	5-Jul-06	C	2	2	0.224	10.420	0.00	0.000
2	5-Jul-06	C	3	1	0.268	12.467	0.00	0.000
2	5-Jul-06	C	3	2	0.212	9.869	0.00	0.000
2	12-Jul-06	C	1	1	0.546	25.430	0.00	0.000
2	12-Jul-06	C	1	2	0.346	16.117	0.00	0.000
2	12-Jul-06	C	2	1	0.438	20.385	0.00	0.000
2	12-Jul-06	C	2	2	0.389	18.135	0.00	0.000

2	12-Jul-06	C	3	1	0.552	25.740	0.00	0.000
2	12-Jul-06	C	3	2	0.283	13.168	0.00	0.000
2	20-Jul-06	C	1	1	0.812	37.822	0.00	0.000
2	20-Jul-06	C	1	2	0.685	31.912	0.00	0.000
2	20-Jul-06	C	2	1	0.730	34.023	0.00	0.000
2	20-Jul-06	C	2	2	0.649	30.223	0.00	0.000
2	20-Jul-06	C	3	1	0.726	33.811	0.00	0.000
2	20-Jul-06	C	3	2	0.549	25.578	0.00	0.000
2	26-Jul-06	C	1	1	0.970	45.215	0.00	0.000
2	26-Jul-06	C	1	2	0.665	30.992	0.00	0.000
2	26-Jul-06	C	2	1	0.838	39.059	0.00	0.000
2	26-Jul-06	C	2	2	0.706	32.903	0.00	0.000
2	26-Jul-06	C	3	1	0.633	29.506	0.00	0.000
2	26-Jul-06	C	3	2	0.551	25.685	0.00	0.000
2	2-Aug-06	C	1	1	0.721	33.576	0.00	0.000
2	2-Aug-06	C	1	2	0.537	25.038	0.00	0.000
2	2-Aug-06	C	2	1	0.665	30.971	0.00	0.000
2	2-Aug-06	C	2	2	0.531	24.748	0.00	0.000
2	2-Aug-06	C	3	1	0.553	25.761	0.00	0.000
2	2-Aug-06	C	3	2	0.547	25.472	0.00	0.000
2	9-Aug-06	C	1	1	0.463	21.563	0.00	0.000
2	9-Aug-06	C	1	2	0.336	15.646	0.00	0.000
2	9-Aug-06	C	2	1	0.432	20.124	0.00	0.000
2	9-Aug-06	C	2	2	0.339	15.806	0.00	0.000
2	9-Aug-06	C	3	1	0.336	15.646	0.00	0.000
2	9-Aug-06	C	3	2	0.269	12.527	0.00	0.000
2	16-Aug-06	C	1	1	0.386	17.992	0.00	0.000
2	16-Aug-06	C	1	2	0.227	10.591	0.00	0.000
2	16-Aug-06	C	2	1	0.239	11.142	0.00	0.000
2	16-Aug-06	C	2	2	0.205	9.567	0.00	0.000
2	16-Aug-06	C	3	1	0.236	10.984	0.00	0.000
2	16-Aug-06	C	3	2	0.197	9.173	0.00	0.000
2	30-Aug-06	C	1	1	0.541	25.223	0.00	0.000
2	30-Aug-06	C	1	2	0.396	18.452	0.00	0.000
2	30-Aug-06	C	2	1	0.457	21.286	0.00	0.000
2	30-Aug-06	C	2	2	0.428	19.948	0.00	0.000
2	30-Aug-06	C	3	1	0.440	20.499	0.00	0.000
2	30-Aug-06	C	3	2	0.371	17.270	0.00	0.000
2	13-Sep-06	C	1	1	0.413	19.245	0.00	0.000
2	13-Sep-06	C	1	2	0.301	14.033	0.00	0.000
2	13-Sep-06	C	2	1	0.389	18.123	0.00	0.000
2	13-Sep-06	C	2	2	0.346	16.118	0.00	0.000
2	13-Sep-06	C	3	1	0.312	14.514	0.00	0.000
2	13-Sep-06	C	3	2	0.315	14.675	0.00	0.000
2	27-Sep-06	C	1	1			0.00	
2	27-Sep-06	C	1	2	0.360	16.786	0.00	0.000
2	27-Sep-06	C	2	1	0.486	22.646	0.00	0.000
2	27-Sep-06	C	2	2	0.416	19.399	0.00	0.000

2	27-Sep-06	C	3	1	0.384	17.895	0.00	0.000
2	27-Sep-06	C	3	2	0.336	15.678	0.00	0.000
2	11-Oct-06	C	1	1	0.519	24.159	0.00	0.000
2	11-Oct-06	C	1	2	0.343	15.992	0.00	0.000
2	11-Oct-06	C	2	1			0.00	
2	11-Oct-06	C	2	2	0.448	20.861	0.00	0.000
2	11-Oct-06	C	3	1	0.326	15.207	0.00	0.000
2	11-Oct-06	C	3	2	0.311	14.501	0.00	0.000
2	25-Oct-06	C	1	1	0.450	20.985	0.00	0.000
2	25-Oct-06	C	1	2	0.407	18.950	0.00	0.000
2	25-Oct-06	C	2	1	0.454	21.141	0.00	0.000
2	25-Oct-06	C	2	2	0.507	23.645	0.00	0.000
2	25-Oct-06	C	3	1	0.360	16.759	0.00	0.000
2	25-Oct-06	C	3	2	0.309	14.411	0.00	0.000
2	8-Nov-06	C	1	1	0.307	14.298	0.00	0.000
2	8-Nov-06	C	1	2	0.268	12.489	0.00	0.000
2	8-Nov-06	C	2	1	0.251	11.703	0.00	0.000
2	8-Nov-06	C	2	2	0.253	11.782	0.00	0.000
2	8-Nov-06	C	3	1	0.287	13.354	0.00	0.000
2	8-Nov-06	C	3	2	0.238	11.074	0.00	0.000
2	22-Nov-06	C	1	1	0.519	24.161	0.00	0.000
2	22-Nov-06	C	1	2	0.334	15.571	0.00	0.000
2	22-Nov-06	C	2	1	0.457	21.298	0.00	0.000
2	22-Nov-06	C	2	2	0.410	19.089	0.00	0.000
2	22-Nov-06	C	3	1	0.380	17.698	0.00	0.000
2	22-Nov-06	C	3	2	0.336	15.653	0.00	0.000
2	6-Dec-06	C	1	1	0.342	15.952	0.00	0.000
2	6-Dec-06	C	1	2	0.317	14.768	0.00	0.000
2	6-Dec-06	C	2	1	0.353	16.425	0.00	0.000
2	6-Dec-06	C	2	2	0.337	15.715	0.00	0.000
2	6-Dec-06	C	3	1	0.327	15.242	0.00	0.000
2	6-Dec-06	C	3	2	0.236	10.981	0.00	0.000
1	18-May	T	1	1	1.11387	51.898		
1	18-May	T	1	2	0.7516675	35.022	0.00	0
1	18-May	T	2	1	0.6899095	32.144	0.01	0.321444127
1	18-May	T	2	2	1.2056724	56.175	0.06	3.370497208
1	18-May	T	3	1	0.7967342	37.122	0.00	0
1	18-May	T	3	2	1.0437663	48.631	0.22	10.69890484
1	26-May	T	1	1	1.0500875	48.926	0.04	1.957036256
1	26-May	T	1	2	0.6374992	29.703	0.04	1.188100113
1	26-May	T	2	1	0.7498708	34.938	0.04	1.397525811
1	26-May	T	2	2	1.3922339	64.867	0.04	2.594690618
1	26-May	T	3	1	0.7934777	36.970	0.04	1.478795484
1	26-May	T	3	2	0.9092037	42.362	0.04	1.694472695
1	31-May	T	1	1	1.1534685	53.743	0.04	2.149706328
1	31-May	T	1	2	0.9477216	44.156	0.04	1.766258154
1	31-May	T	2	1	0.9445068	44.007	0.04	1.760266776

1	31-May	T	2	2	1.4508371	67.598	0.04	2.703908768
1	31-May	T	3	1	1.0425581	48.575	0.04	1.943003797
1	31-May	T	3	2	1.2097275	56.364	0.04	2.254555439
1	8-Jun	T	1	1	0.6894083	32.121	0.04	1.284842426
1	8-Jun	T	1	2	0.4698479	21.891	0.04	0.875650308
1	8-Jun	T	2	1	0.4899603	22.828	0.04	0.913133555
1	8-Jun	T	2	2	1.2559074	58.516	0.04	2.340620562
1	8-Jun	T	3	1	0.6374512	29.700	0.04	1.188010703
1	8-Jun	T	3	2	0.826843	38.524	0.04	1.54097795
1	14-Jun	T	1	1	0.6722684	31.322	0.00	0
1	14-Jun	T	1	2	0.9116671	42.477	0.00	0
1	14-Jun	T	2	1	1.0339499	48.174	0.00	0
1	14-Jun	T	2	2	1.4628008	68.155	0.00	0
1	14-Jun	T	3	1	1.1510658	53.631	0.00	0
1	14-Jun	T	3	2	1.058062	49.297	0.00	0
1	21-Jun	T	1	1	0.7144154	33.286	0.00	0
1	21-Jun	T	1	2	0.848683	39.542	0.00	0
1	21-Jun	T	2	1	0.843648	39.307	0.00	0
1	21-Jun	T	2	2	1.2598775	58.700	0.00	0
1	21-Jun	T	3	1	0.9326003	43.452	0.00	0
1	21-Jun	T	3	2	.	.	.	.
1	28-Jun	T	1	1	0.7384565	34.406	0.00	0
1	28-Jun	T	1	2	0.9682598	45.113	0.00	0
1	28-Jun	T	2	1	1.0988674	51.199	0.00	0
1	28-Jun	T	2	2	1.3683489	63.754	0.00	0
1	28-Jun	T	3	1	1.0757217	50.120	0.00	0
1	28-Jun	T	3	2	1.0443098	48.657	0.00	0
1	5-Jul	T	1	1	0.4855933	22.625	0.00	0
1	5-Jul	T	1	2	0.4889733	22.782	0.00	0
1	5-Jul	T	2	1	0.4348933	20.263	0.00	0
1	5-Jul	T	2	2	0.6140333	28.609	0.00	0
1	5-Jul	T	3	1	0.5092533	23.727	0.00	0
1	5-Jul	T	3	2	0.5667133	26.404	0.00	0
1	12-Jul	T	1	1	0.6533572	30.441	0.01	0.304413604
1	12-Jul	T	1	2	0.7229838	33.685	0.01	0.336854187
1	12-Jul	T	2	1	0.430552	20.060	0.01	0.200603737
1	12-Jul	T	2	2	0.6881705	32.063	0.01	0.320633895
1	12-Jul	T	3	1	0.5558799	25.900	0.01	0.258996787
1	12-Jul	T	3	2	0.7369091	34.334	0.01	0.343342304
1	20-Jul	T	1	1	0.8480213	39.511	0.01	0.395111941
1	20-Jul	T	1	2	0.9250455	43.100	0.01	0.430999223
1	20-Jul	T	2	1	0.6486646	30.223	0.01	0.30222721
1	20-Jul	T	2	2	0.9476997	44.155	0.01	0.441554306
1	20-Jul	T	3	1	0.8072438	37.611	0.01	0.376112791
1	20-Jul	T	3	2	1.0383164	48.377	0.01	0.483774638
1	26-Jul	T	1	1	1.330359	61.984	0.01	0.619843766
1	26-Jul	T	1	2	1.4807078	68.989	0.01	0.689894602
1	26-Jul	T	2	1	1.148118	53.493	0.01	0.534933661

1	26-Jul	T	2	2	1.6948409	78.966	0.01	0.789663976
1	26-Jul	T	3	1	1.5809403	73.660	0.01	0.73659516
1	26-Jul	T	3	2	1.6629487	77.480	0.01	0.774804707
1	2-Aug	T	1	1	0.9536095	44.431	0.01	0.444307843
1	2-Aug	T	1	2	1.2083196	56.298	0.01	0.562982902
1	2-Aug	T	2	1	0.9349722	43.562	0.01	0.435624302
1	2-Aug	T	2	2	1.2611253	58.759	0.01	0.587586267
1	2-Aug	T	3	1	1.1834698	55.140	0.01	0.551404847
1	2-Aug	T	3	2	1.2021071	56.009	0.01	0.560088388
1	9-Aug	T	1	1	0.5726454	26.681	0.01	0.266808205
1	9-Aug	T	1	2	0.6790511	31.638	0.01	0.316384954
1	9-Aug	T	2	1	0.5503346	25.641	0.01	0.25641308
1	9-Aug	T	2	2	0.7820243	36.436	0.01	0.364362453
1	9-Aug	T	3	1	0.7185241	33.478	0.01	0.334776329
1	9-Aug	T	3	2	0.7305377	34.037	0.01	0.340373704
1	16-Aug	T	1	1	0.372645	17.362	0.10	1.736235735
1	16-Aug	T	1	2	0.431795	20.118	0.10	2.011828708
1	16-Aug	T	2	1	0.389545	18.150	0.10	1.814976584
1	16-Aug	T	2	2	0.661635	30.827	0.10	3.082704263
1	16-Aug	T	3	1	0.632905	29.488	0.10	2.948844819
1	16-Aug	T	3	2	0.526435	24.528	0.10	2.452777466
1	30-Aug	T	1	1	0.5413633	25.223	0.10	2.522331883
1	30-Aug	T	1	2	0.7931733	36.956	0.10	3.695570543
1	30-Aug	T	2	1	0.6376933	29.712	0.10	2.971154726
1	30-Aug	T	2	2	0.7543033	35.145	0.10	3.514466589
1	30-Aug	T	3	1	0.7610633	35.460	0.10	3.545962929
1	30-Aug	T	3	2	0.8117633	37.822	0.10	3.782185478
1	13-Sep	T	1	1	0.4939485	23.014	0.10	2.301415724
1	13-Sep	T	1	2	0.6574506	30.632	0.10	3.063208385
1	13-Sep	T	2	1	0.6075395	28.307	0.10	2.830661152
1	13-Sep	T	2	2	0.7744837	36.085	0.10	3.608491553
1	13-Sep	T	3	1	0.7417833	34.561	0.10	3.456133021
1	13-Sep	T	3	2	0.8175106	38.090	0.10	3.808963306
1	27-Sep	T	1	1	0.6950715	32.385	0.10	3.238492374
1	27-Sep	T	1	2	0.7749453	36.106	0.10	3.610641865
1	27-Sep	T	2	1	0.7494536	34.919	0.10	3.491870751
1	27-Sep	T	2	2	0.9295944	43.312	0.10	4.331186623
1	27-Sep	T	3	1	0.7681475	35.790	0.10	3.578969568
1	27-Sep	T	3	2	0.9024034	42.045	0.10	4.204497435
1	11-Oct	T	1	1	0.8926571	41.591	0.10	4.159087315
1	11-Oct	T	1	2	1.0274825	47.873	0.10	4.787269163
1	11-Oct	T	2	1	1.1269163	52.506	0.10	5.250553276
1	11-Oct	T	2	2	1.167364	54.390	0.10	5.43900783
1	11-Oct	T	3	1	1.1403989	53.134	0.10	5.31337146
1	11-Oct	T	3	2	1.1269163	52.506	0.10	5.250553276
1	25-Oct	T	1	1	0.5427594	25.288	0.10	2.528836562
1	25-Oct	T	1	2	0.6233756	29.044	0.10	2.904445087
1	25-Oct	T	2	1	0.5108489	23.802	0.10	2.380158188

1	25-Oct	T	2	2	0.5864265	27.323	0.10	2.73229118
1	25-Oct	T	3	1	0.5477979	25.523	0.10	2.552312095
1	25-Oct	T	3	2	0.6519271	30.375	0.10	3.037473107
1	8-Nov	T	1	1	0.3034968	14.141	0.04	0.56562359
1	8-Nov	T	1	2	0.7591639	35.371	0.04	1.414845292
1	8-Nov	T	2	1	.	.	.	.
1	8-Nov	T	2	2	0.7895417	36.787	0.04	1.471460072
1	8-Nov	T	3	1	0.5684588	26.486	0.04	1.059430283
1	8-Nov	T	3	2	0.8351085	38.910	0.04	1.556382242
1	22-Nov	T	1	1	0.5571879	25.961	0.04	1.038424781
1	22-Nov	T	1	2	0.7433074	34.632	0.04	1.385293562
1	22-Nov	T	2	1	0.6642944	30.951	0.04	1.238037948
1	22-Nov	T	2	2	0.6168866	28.742	0.04	1.149684579
1	22-Nov	T	3	1	0.5536762	25.797	0.04	1.031880087
1	22-Nov	T	3	2	0.6625385	30.869	0.04	1.234765601
1	6-Dec	T	1	1	0.4592284	21.396	0.04	0.855858788
1	6-Dec	T	1	2	0.5388242	25.105	0.04	1.004200631
1	6-Dec	T	2	1	0.4236643	19.739	0.04	0.78957839
1	6-Dec	T	2	2	0.4778572	22.264	0.04	0.890577092
1	6-Dec	T	3	1	0.4558413	21.239	0.04	0.849546369
1	6-Dec	T	3	2	0.5218889	24.316	0.04	0.972638537
2	6-Apr-06	T	1	1	0.477	22.230	0.00	0
2	6-Apr-06	T	1	2	0.422	19.671	0.00	0
2	6-Apr-06	T	2	1	0.408	19.031	0.00	0
2	6-Apr-06	T	2	2	0.357	16.632	0.00	0
2	6-Apr-06	T	3	1	0.408	19.031	0.00	0
2	6-Apr-06	T	3	2	0.415	19.351	0.00	0
2	20-Apr-06	T	1	1	0.389	18.120	0.00	0
2	20-Apr-06	T	1	2	0.448	20.880	0.00	0
2	20-Apr-06	T	2	1	0.467	21.747	0.00	0
2	20-Apr-06	T	2	2	0.355	16.543	0.00	0
2	20-Apr-06	T	3	1	0.430	20.012	0.00	0
2	20-Apr-06	T	3	2	0.514	23.955	0.00	0
2	27-Apr-06	T	1	1	0.484	22.550	0.00	0
2	27-Apr-06	T	1	2	0.461	21.468	0.00	0
2	27-Apr-06	T	2	1	.	.	.	.
2	27-Apr-06	T	2	2	0.481	22.395	0.00	0
2	27-Apr-06	T	3	1	0.446	20.772	0.00	0
2	27-Apr-06	T	3	2	0.096	4.464	0.00	0
2	4-May-06	T	1	1	0.435	20.284	0.00	0
2	4-May-06	T	1	2	0.430	20.047	0.00	0
2	4-May-06	T	2	1	0.407	18.945	0.00	0
2	4-May-06	T	2	2	0.376	17.528	0.00	0
2	4-May-06	T	3	1	.	.	.	.
2	4-May-06	T	3	2	0.347	16.189	0.00	0
2	11-May-06	T	1	1	0.411	19.161	0.00	0
2	11-May-06	T	1	2	0.510	23.741	0.00	0
2	11-May-06	T	2	1	0.469	21.846	0.00	0

2	11-May-06	T	2	2	0.367	17.108	0.00	0
2	11-May-06	T	3	1	0.408	19.003	0.00	0
2	11-May-06	T	3	2	0.440	20.503	0.00	0
2	18-May-06	T	1	1	0.334	15.554	0.00	0
2	18-May-06	T	1	2	0.457	21.309	0.00	0
2	18-May-06	T	2	1	0.357	16.643	0.00	0
2	18-May-06	T	2	2	0.366	17.031	0.00	0
2	18-May-06	T	3	1	0.396	18.431	0.00	0
2	18-May-06	T	3	2	0.414	19.287	0.00	0
2	26-May-06	T	1	1	0.276	12.847	0.00	0
2	26-May-06	T	1	2	0.398	18.551	0.00	0
2	26-May-06	T	2	1	0.356	16.598	0.00	0
2	26-May-06	T	2	2	0.316	14.722	0.00	0
2	26-May-06	T	3	1	0.314	14.644	0.00	0
2	26-May-06	T	3	2	0.381	17.770	0.00	0
2	31-May-06	T	1	1	0.380	17.719	0.00	0
2	31-May-06	T	1	2	0.539	25.134	0.00	0
2	31-May-06	T	2	1	0.466	21.689	0.00	0
2	31-May-06	T	2	2	0.416	19.367	0.00	0
2	31-May-06	T	3	1	0.449	20.940	0.00	0
2	31-May-06	T	3	2	0.424	19.742	0.00	0
2	8-Jun-08	T	1	1	0.190	8.850	0.00	0
2	8-Jun-08	T	1	2	0.369	17.206	0.00	0
2	8-Jun-08	T	2	1	0.326	15.176	0.00	0
2	8-Jun-08	T	2	2	0.207	9.631	0.00	0
2	8-Jun-08	T	3	1	0.255	11.896	0.00	0
2	8-Jun-08	T	3	2	0.245	11.427	0.00	0
2	14-Jun-06	T	1	1	0.414	19.286	0.04	0.771426277
2	14-Jun-06	T	1	2	0.478	22.255	0.04	0.890189546
2	14-Jun-06	T	2	1	0.571	26.588	0.04	1.063519722
2	14-Jun-06	T	2	2	0.376	17.520	0.04	0.70081028
2	14-Jun-06	T	3	1	0.448	20.891	0.04	0.835622639
2	14-Jun-06	T	3	2	0.431	20.088	0.04	0.803524458
2	21-Jun-06	T	1	1	0.412	19.211	0.04	0.768423806
2	21-Jun-06	T	1	2	0.490	22.808	0.04	0.912307775
2	21-Jun-06	T	2	1	0.607	28.282	0.04	1.131261641
2	21-Jun-06	T	2	2	0.422	19.680	0.04	0.78719128
2	21-Jun-06	T	3	1	0.535	24.919	0.04	0.996761409
2	21-Jun-06	T	3	2	0.511	23.824	0.04	0.952970636
2	28-Jun-06	T	1	1	0.378	17.614	0.04	0.704559428
2	28-Jun-06	T	1	2	0.474	22.082	0.04	0.883266922
2	28-Jun-06	T	2	1	0.481	22.390	0.04	0.895591577
2	28-Jun-06	T	2	2	0.443	20.618	0.04	0.824724812
2	28-Jun-06	T	3	1	0.484	22.544	0.04	0.901753904
2	28-Jun-06	T	3	2	0.481	22.390	0.04	0.895591577
2	5-Jul-06	T	1	1	0.310	14.436	0.04	0.577432897
2	5-Jul-06	T	1	2	0.357	16.641	0.04	0.665622649
2	5-Jul-06	T	2	1	0.381	17.743	0.04	0.709717525

2	5-Jul-06	T	2	2	0.252	11.759	0.04	0.470345342
2	5-Jul-06	T	3	1	0.344	16.011	0.04	0.640425577
2	5-Jul-06	T	3	2	0.339	15.774	0.04	0.630976675
2	12-Jul-06	T	1	1	0.408	18.988	0.07	1.329184346
2	12-Jul-06	T	1	2	0.509	23.722	0.07	1.660574994
2	12-Jul-06	T	2	1	0.522	24.343	0.07	1.704036063
2	12-Jul-06	T	2	2	0.739	34.433	0.07	2.410278427
2	12-Jul-06	T	3	1	0.487	22.714	0.07	1.589950758
2	12-Jul-06	T	3	2	0.459	21.394	0.07	1.497595987
2	20-Jul-06	T	1	1	0.739	34.445	0.07	2.411132797
2	20-Jul-06	T	1	2	0.812	37.822	0.07	2.647566656
2	20-Jul-06	T	2	1	0.780	36.345	0.07	2.544126843
2	20-Jul-06	T	2	2	0.699	32.545	0.07	2.278138751
2	20-Jul-06	T	3	1	0.807	37.611	0.07	2.63278954
2	20-Jul-06	T	3	2	0.830	38.667	0.07	2.706675121
2	26-Jul-06	T	1	1	0.852	39.695	0.07	2.778683184
2	26-Jul-06	T	1	2	0.879	40.969	0.07	2.867838794
2	26-Jul-06	T	2	1	0.870	40.545	0.07	2.838120257
2	26-Jul-06	T	2	2	0.665	30.992	0.07	2.169453181
2	26-Jul-06	T	3	1	.	.	.	.
2	26-Jul-06	T	3	2	0.961	44.790	0.07	3.135305624
2	2-Aug-06	T	1	1	0.683	31.840	0.07	2.228775497
2	2-Aug-06	T	1	2	0.665	30.971	0.07	2.167990711
2	2-Aug-06	T	2	1	0.783	36.471	0.07	2.552961024
2	2-Aug-06	T	2	2	0.618	28.800	0.07	2.016028745
2	2-Aug-06	T	3	1	0.749	34.879	0.07	2.441522249
2	2-Aug-06	T	3	2	0.814	37.918	0.07	2.654269001
2	9-Aug-06	T	1	1	0.380	17.725	0.07	1.240751442
2	9-Aug-06	T	1	2	0.403	18.765	0.07	1.313517316
2	9-Aug-06	T	2	1	0.502	23.402	0.07	1.638165061
2	9-Aug-06	T	2	2	0.343	15.966	0.07	1.117609193
2	9-Aug-06	T	3	1	0.483	22.523	0.07	1.576593937
2	9-Aug-06	T	3	2	0.507	23.642	0.07	1.654957186
2	16-Aug-06	T	1	1	0.209	9.724	0.07	0.680714645
2	16-Aug-06	T	1	2	0.290	13.504	0.07	0.9452839
2	16-Aug-06	T	2	1	.	.	.	.
2	16-Aug-06	T	2	2	0.244	11.378	0.07	0.796463694
2	16-Aug-06	T	3	1	.	.	.	.
2	16-Aug-06	T	3	2	0.298	13.898	0.07	0.972843197
2	30-Aug-06	T	1	1	0.447	20.814	0.01	0.208138313
2	30-Aug-06	T	1	2	0.509	23.727	0.01	0.237272427
2	30-Aug-06	T	2	1	0.599	27.901	0.01	0.279005077
2	30-Aug-06	T	2	2	0.352	16.404	0.01	0.164043437
2	30-Aug-06	T	3	1	0.492	22.940	0.01	0.229398342
2	30-Aug-06	T	3	2	0.550	25.617	0.01	0.256170231
2	13-Sep-06	T	1	1	0.377	17.561	0.01	0.175613256
2	13-Sep-06	T	1	2	0.422	19.646	0.01	0.196462318
2	13-Sep-06	T	2	1	0.497	23.175	0.01	0.231745346

2	13-Sep-06	T	2	2	0.356	16.599	0.01	0.165990611
2	13-Sep-06	T	3	1	0.423	19.726	0.01	0.197264205
2	13-Sep-06	T	3	2	0.477	22.212	0.01	0.222122702
2	27-Sep-06	T	1	1	0.444	20.666	0.01	0.206661738
2	27-Sep-06	T	1	2	0.466	21.696	0.01	0.216955235
2	27-Sep-06	T	2	1	0.574	26.763	0.01	0.26763091
2	27-Sep-06	T	2	2	0.421	19.637	0.01	0.196368242
2	27-Sep-06	T	3	1	0.552	25.734	0.01	0.257337414
2	27-Sep-06	T	3	2	0.586	27.317	0.01	0.273173562
2	11-Oct-06	T	1	1	0.502	23.374	0.01	0.233735996
2	11-Oct-06	T	1	2	0.503	23.452	0.01	0.234521223
2	11-Oct-06	T	2	1	0.545	25.415	0.01	0.254151906
2	11-Oct-06	T	2	2	0.475	22.117	0.01	0.221172359
2	11-Oct-06	T	3	1	0.557	25.965	0.01	0.259648497
2	11-Oct-06	T	3	2	0.562	26.200	0.01	0.262004179
2	25-Oct-06	T	1	1	0.413	19.263	0.01	0.192629789
2	25-Oct-06	T	1	2	0.413	19.263	0.01	0.192629789
2	25-Oct-06	T	2	1	0.523	24.349	0.01	0.243493443
2	25-Oct-06	T	2	2	0.355	16.524	0.01	0.165241667
2	25-Oct-06	T	3	1	0.568	26.462	0.01	0.264621423
2	25-Oct-06	T	3	2	0.491	22.863	0.01	0.228625606
2	8-Nov-06	T	1	1	0.298	13.905	0.01	0.139046948
2	8-Nov-06	T	1	2	0.295	13.747	0.01	0.137474316
2	8-Nov-06	T	2	1	0.406	18.937	0.01	0.189371197
2	8-Nov-06	T	2	2	0.211	9.816	0.01	0.098158496
2	8-Nov-06	T	3	1	0.330	15.399	0.01	0.15398696
2	8-Nov-06	T	3	2	0.538	25.070	0.01	0.250703876
2	22-Nov-06	T	1	1	0.526	24.488	0.01	0.244880634
2	22-Nov-06	T	1	2	0.440	20.479	0.01	0.204794383
2	22-Nov-06	T	2	1	0.550	25.633	0.01	0.256333848
2	22-Nov-06	T	2	2	.	.	.	.
2	22-Nov-06	T	3	1	0.534	24.897	0.01	0.248971067
2	22-Nov-06	T	3	2	0.524	24.406	0.01	0.244062547
2	6-Dec-06	T	1	1	0.434	20.213	0.00	0
2	6-Dec-06	T	1	2	0.270	12.559	0.03	0.3767725
2	6-Dec-06	T	2	1	0.388	18.082	0.01	0.180824498
2	6-Dec-06	T	2	2	.	.	.	.
2	6-Dec-06	T	3	1	0.391	18.240	0.01	0.182402603
2	6-Dec-06	T	3	2	0.434	20.213	0.00	0

Table A7. Determination of proportion from BC for C respired

					with full time		
				total C	total C		

				resp	resp	UCDavis	
				Kg C/ha	Kg C/ha	umol C	Delta 13C
1-C	old	6 april-8 jun		143.68	1060.76	149.5	-11.52
1-T	old	6 april-8 jun		164.11	1210.22	122.2	-9.80
2-C	old	14 jun-5 jul		67.84	465.11	168.5	-11.82
2-T	old	14 jun-5 jul		80.95	556.09	172.1	-12.44
3-C	old	12 jul-16 aug		142.10	1028.23	131.4	-15.42
3-T	old	12 jul-16 aug		167.03	1204.27	182.6	-16.29
4C	old	30 aug-22 nov		124.12	1737.74	233.2	-15.75
4T	old	30 aug-22 nov		152.74	2138.38	247.7	-15.87
5-C	new	26 may-8 jun		83.28	552.14	147.8	-10.06
5-T	new	26 may-8 jun		129.39	858.01	159.9	-10.77
6-C	new	14 jun-5 jul		114.06	782.50	202.5	-11.98
6-T	new	14 jun-5 jul		164.86	1129.58	210.6	-11.54
7-C	new	12 jul-9 aug		164.26	1137.24	152.1	-13.35
7-T	new	12 jul-9 aug		220.04	1520.46	194.5	-13.50
8-C	new	16 aug-25 oct		134.74	1806.64	199.4	-14.70
8-T	new	16 aug-25 oct		201.31	2708.61	265.8	-16.17
9-C	new	8 nov-6 dec		68.88	964.30	210.8	-14.06
9-T	new	8 nov-6 dec		83.31	1166.31	264.3	-14.62
12	old	6-Dec	1-C-1		223.54	175.9	-13.29
10	old	6-Dec	1-T-1		283.20	205.1	-13.20
13	old	6-Dec	1-C-2		206.97	189.1	-13.51
11	old	6-Dec	1-T-2		176.04	157.4	-13.96
15	old	6-Dec	2-C-1		230.17	206.8	-13.68
14	old	6-Dec	2-T-1		253.37	222.5	-13.83
16	old	6-Dec	2-C-2		220.23	178.2	-12.86
19	old	6-Dec	3-C-1		213.60	185.3	-13.17
17	old	6-Dec	3-T-1		255.58	187.6	-13.31
20	old	6-Dec	3-C-2		153.95	191.5	-13.70
18	old	6-Dec	3-T-2		283.20	161.9	-13.47
3	new	18-May	1-C-1		231.40	243.07	-16.30
1	new	18-May	1-T-1		363.14		no data
4	new	18-May	1-C-2		286.93	234.28	-16.70
2	new	18-May	1-T-2		245.01	174.37	-12.26
7	new	18-May	2-C-1		163.90	151.51	-12.12
5	new	18-May	2-T-1		224.87	165.39	-12.20
8	new	18-May	2-C-2		214.52	178.86	-13.08
6	new	18-May	2-T-2		393.08	201.75	-13.98
11	new	18-May	3-C-1		204.18	195.87	-15.21
9	new	18-May	3-T-1		259.71	205.83	-15.03

12	new	18-May	3-C-2		240.66	164.69	-12.65
10	new	18-May	3-T-2		340.28	241.02	-16.17

				umol C	from soil	umol C	prop
				from soil	fixed	from char	from char
1-C	old	6 april-8 jun					
1-T	old	6 april-8 jun		134.32	122.20	0.0	0.00
2-C	old	14 jun-5 jul					
2-T	old	14 jun-5 jul		165.86	165.86	6.3	0.04
3-C	old	12 jul-16 aug					
3-T	old	12 jul-16 aug		170.75	170.75	11.9	0.07
4C	old	30 aug-22 nov					
4T	old	30 aug-22 nov		245.36	245.36	2.3	0.01
5-C	new	26 may-8 jun					
5-T	new	26 may-8 jun		153.84	153.84	6.0	0.04
6-C	new	14 jun-5 jul					
6-T	new	14 jun-5 jul		216.14	210.63	0.0	0.00
7-C	new	12 jul-9 aug					
7-T	new	12 jul-9 aug		192.62	192.62	1.9	0.01
8-C	new	16 aug-25 oct					
8-T	new	16 aug-25 oct		238.16	238.16	27.7	0.10
9-C	new	8 nov-6 dec					
9-T	new	8 nov-6 dec		254.18	254.18	10.1	0.04
12	old	6-Dec	1-C-1				
10	old	6-Dec	1-T-1	206.28	205.09	0.0	0.00
13	old	6-Dec	1-C-2				
11	old	6-Dec	1-T-2	152.76	152.76	4.7	0.03
15	old	6-Dec	2-C-1				
14	old	6-Dec	2-T-1	220.28	220.28	2.2	0.01
16	old	6-Dec	2-C-2				
19	old	6-Dec	3-C-1				
17	old	6-Dec	3-T-1	185.87	185.87	1.7	0.01
20	old	6-Dec	3-C-2				
18	old	6-Dec	3-T-2	164.39	161.95	0.0	0.00
3	new	18-May	1-C-1				
1	new	18-May	1-T-1				
4	new	18-May	1-C-2				

2	new	18-May	1-T-2	238.21	174.37	0.0	0.00
7	new	18-May	2-C-1				
5	new	18-May	2-T-1	164.54	164.54	0.9	0.01
8	new	18-May	2-C-2				
6	new	18-May	2-T-2	190.23	190.23	11.5	0.06
11	new	18-May	3-C-1				
9	new	18-May	3-T-1	208.67	205.83	0.0	0.00
12	new	18-May	3-C-2				
10	new	18-May	3-T-2	188.54	188.54	52.5	0.22

							with full time
				% from char	Kg C/ha	Kg C/ha	
					from char	from char	
1-C	old	6 april-8 jun					
1-T	old	6 april-8 jun		0.00	0.00	0.00	
2-C	old	14 jun-5 jul					
2-T	old	14 jun-5 jul		3.65	2.95	20.29	
3-C	old	12 jul-16 aug					
3-T	old	12 jul-16 aug		6.51	10.87	78.36	
4C	old	30 aug-22 nov					
4T	old	30 aug-22 nov		0.93	1.43	19.98	
							6 dec
5-C	new	26 may-8 jun					
5-T	new	26 may-8 jun		3.78	4.89	32.42	
6-C	new	14 jun-5 jul					
6-T	new	14 jun-5 jul		0.00	0.00	0.00	
7-C	new	12 jul-9 aug					
7-T	new	12 jul-9 aug		0.96	2.12	14.62	
8-C	new	16 aug-25 oct					
8-T	new	16 aug-25 oct		10.42	20.97	282.13	
9-C	new	8 nov-6 dec					
9-T	new	8 nov-6 dec		3.81	3.17	44.44	
12	old	6-Dec	1-C-1				
10	old	6-Dec	1-T-1	0.00	0.00	0.00	
13	old	6-Dec	1-C-2				
11	old	6-Dec	1-T-2	2.96	0.00	5.22	
15	old	6-Dec	2-C-1				
14	old	6-Dec	2-T-1	0.98	0.00	2.47	
16	old	6-Dec	2-C-2				
19	old	6-Dec	3-C-1				

17	old	6-Dec	3-T-1	0.91	0.00	2.34
20	old	6-Dec	3-C-2			
18	old	6-Dec	3-T-2	0.00	0.00	0.00
3	new	18-May	1-C-1			
1	new	18-May	1-T-1			
4	new	18-May	1-C-2			
2	new	18-May	1-T-2	0.00	0.00	0.00
7	new	18-May	2-C-1			
5	new	18-May	2-T-1	0.52	0.00	1.16
8	new	18-May	2-C-2			
6	new	18-May	2-T-2	5.71	0.00	22.45
11	new	18-May	3-C-1			
9	new	18-May	3-T-1	0.00	0.00	0.00
12	new	18-May	3-C-2			
10	new	18-May	3-T-2	21.77	0.00	74.09

Table A8. Soil data (C=control, T=23.2 t/ha, T1=116.1 t/ha, T2=11.6 t/ha)

month	rep	trt	depth	mgC/gsoil	Delta PDB	amt C	amt C	% from soil	%from biochar
						from soil	from biochar		
						mg C / g soil	mg C / g soil		
Dec	1	C	15	5.7	-12.41				
Dec	2	C	15	5.7	-12.96				
Dec	3	C	15	8.0	-12.93				
				6.5					
Dec	1	C	30	4.0	-11.80				
Dec	2	C	30	4.7	-11.60				
Dec	3	C	30	5.1	-11.54				
				4.6					
Dec	1	C	60	3.2	-11.41				
Dec	2	C	60	3.4	-11.46				
Dec	3	C	60	3.1	-10.95				
				3.2					
Dec	1	C	120	2.263	-11.64				
Dec	2	C	120	2.010	-11.40				
Dec	3	C	120	2.898	-11.21				
				2.4					
Dec	1	C	200	1.393	-12.62				
Dec	2	C	200	1.260	-13.32				
Dec	3	C	200	1.037	-13.26				
				1.2					
Dec	1	T	15	12.8	-20.14	6.76	6.02	53	47
Dec	2	T	15	12.7	-19.42	7.55	5.18	59	41
Dec	3	T	15	20.1	-21.61	9.12	11.00	45	55
				15.2					
Dec	1	T	30	5.3	-11.84	5.27	0.01	100	0
Dec	2	T	30	5.7	-11.81	5.64	0.07	99	1
Dec	3	T	30	6.2	-11.72	6.14	0.06	99	1
				5.7					
Dec	1	T	60	3.0	-11.17	3.02	-0.04	101	-1
Dec	2	T	60	3.5	-11.03	3.56	-0.09	103	-3
Dec	3	T	60	4.0	-11.10	3.94	0.03	99	1
				3.5					
Dec	1	T	120	2.113	-11.02	2.19	-0.08	104	-4

Dec	2T	120	1.991	-11.17	2.02	-0.03	101	-1
Dec	3T	120	2.360	-11.24	2.35	0.01	100	0
			2.2					
Dec	1T	200	1.219	-12.60	1.22	0.00	100	0
Dec	2T	200	1.342	-13.25	1.35	-0.01	101	-1
Dec	3T	200			0.00	0.00	#DIV/0!	#DIV/0!
			1.3					
Dec	1T1	15	69.5	-26.82	8.45	61.04	12	88
Dec	2T1	15	61.2	-26.05	10.65	50.58	17	83
Dec	3T1	15	48.1	-24.96	11.66	36.43	24	76
			59.6					
Dec	1T1	30	6.2	-12.16	6.04	0.13	98	2
Dec	2T1	30	7.5	-13.40	6.68	0.78	90	10
Dec	3T1	30	6.9	-12.07	6.65	0.21	97	3
			6.8					
Dec	1T1	60	3.7	-11.18	3.78	-0.05	101	-1
Dec	2T1	60	3.1	-11.23	3.15	-0.04	101	-1
Dec	3T1	60	4.1	-11.30	4.03	0.08	98	2
			3.6					
Dec	1T1	120	1.965	-11.16	2.02	-0.05	103	-3
Dec	2T1	120	1.935	-10.89	1.99	-0.06	103	-3
Dec	3T1	120	2.532	-11.21	2.53	0.00	100	0
			2.1					
Dec	1T1	200	1.136	-12.64	1.13	0.00	100	0
Dec	2T1	200	1.233	-12.75	1.28	-0.05	104	-4
Dec	3T1	200			0.00	0.00	#DIV/0!	#DIV/0!
			1.2					
Dec	1T2	15	10.0	-16.02	7.83	2.21	78	22
Dec	2T2	15	12.7	-17.85	8.78	3.91	69	31
Dec	3T2	15	13.1	-19.78	7.43	5.63	57	43
			11.9					
Dec	1T2	30	5.8	-12.00	5.69	0.07	99	1
Dec	2T2	30	5.9	-11.77	5.85	0.06	99	1
Dec	3T2	30	4.5	-11.63	4.50	0.02	99	1
			5.4					
Dec	1T2	60	3.5	-10.98	3.60	-0.09	102	-2

Dec	2T2	60	3.6	-11.22	3.67	-0.05	101	-1
Dec	3T2	60	2.9	-10.86	2.91	-0.01	100	0
			3.3					
Dec	1T2	120	2.194	-11.15	2.26	-0.06	103	-3
Dec	2T2	120	2.540	-11.85	2.47	0.07	97	3
Dec	3T2	120	1.807	-11.41	1.79	0.02	99	1
			2.2					
Dec	1T2	200	1.199	-12.35	1.22	-0.02	102	-2
Dec	2T2	200	1.710	-12.55	1.79	-0.09	105	-5
Dec	3T2	200	0.961	-13.20	0.96	0.00	100	0
			1.3					
May	1C	15	6.2	-12.69				
May	2C	15	6.9	-12.72				
May	3C	15	7.1	-12.54				
			6.7					
May	1C	30	3.9	-11.71				
May	2C	30	4.6	-11.61				
May	3C	30	5.0	-11.56				
			4.5					
May	1C	60	3.1	-11.45				
May	2C	60	3.6	-11.48				
May	3C	60	3.3	-10.86				
			3.3					
May	1C	120	2.042	-11.41				
May	2C	120	1.907	-11.43				
May	3C	120	2.077	-10.98				
			2.0					
MAY	1C	200	1.1	-13.47				
MAY	2C	200	1.3	-13.28				
May	3C	200	0.847	-13.43				
			1.1					
May	1T	15	9.5	-16.21	7.42	2.07	78	22
May	2T	15	15.3	-20.54	7.89	7.45	51	49
May	3T	15	13.1	-17.88	8.81	4.30	67	33
			12.7					
May	1T	30	4.6	-11.90	4.56	0.05	99	1

May	2T	30	5.4	-11.98	5.32	0.12	98	2
May	3T	30	7.0	-11.88	6.86	0.13	98	2
			5.7					
May	1T	60	3.7	-11.13	3.75	-0.07	102	-2
May	2T	60	3.4	-11.26	3.43	-0.04	101	-1
May	3T	60	3.8	-11.26	3.74	0.09	98	2
			3.6					
MAY	1T	120	2.3	-11.12	2.38	-0.04	102	-2
May	2T	120	2.323	-11.29	2.34	-0.02	101	-1
MAY	3T	120	2.5	-10.83	2.49	-0.02	101	-1
			2.4					
MAY	1T	200	1.0	-13.36	1.05	-0.01	101	-1
May	2T	200	0.987	-12.90	1.01	-0.02	102	-2
MAY	3T	200	1.3	-13.22	1.27	-0.02	101	-1
			1.1					
May	1T1	15	46.5	-26.44	6.82	39.64	15	85
May	2T1	15	27.5	-23.58	8.93	18.56	32	68
May	3T1	15	28.4	-23.45	9.34	19.02	33	67
			34.1					
May	1T1	30	4.8	-11.75	4.77	0.01	100	0
May	2T1	30	6.1	-12.08	5.91	0.17	97	3
May	3T1	30	6.6	-12.03	6.47	0.18	97	3
			5.8					
May	1T1	60	3.1	-11.14	3.14	-0.06	102	-2
May	2T1	60	4.0	-11.21	4.09	-0.06	102	-2
May	3T1	60	3.1	-11.04	3.07	0.03	99	1
			3.4					
MAY	1T1	120	1.8	-11.25	1.81	-0.02	101	-1
May	2T1	120	2.454	-10.95	2.52	-0.07	103	-3
MAY	3T1	120	2.3	-11.20	2.30	0.03	99	1
			2.2					
MAY	1T1	200	1.0	-13.34	1.05	-0.01	101	-1
May	2T1	200	1.031	-13.49	1.02	0.01	99	1
MAY	3T1	200	1.098	-13.58	1.09	0.01	99	1
			1.1					
May	1T2	15	8.9	-16.35	6.88	2.03	77	23

May	2T2	15	8.6	-15.09	7.37	1.27	85	15
May	3T2	15	12.1	-18.88	7.41	4.73	61	39
			9.9					
May	1T2	30	4.9	-11.52	4.92	-0.05	101	-1
May	2T2	30	5.9	-12.02	5.74	0.14	98	2
May	3T2	30	5.7	-11.73	5.65	0.06	99	1
			5.5					
May	1T2	60	3.1	-11.07	3.16	-0.07	102	-2
May	2T2	60	4.0	-11.30	4.04	-0.04	101	-1
May	3T2	60	4.1	-11.24	3.97	0.09	98	2
			3.7					
MAY	1T2	120	1.9	-11.08	1.94	-0.04	102	-2
MAY	2T2	120	2.2	-11.55	2.18	0.02	99	1
MAY	3T2	120	2.6	-11.17	2.59	0.03	99	1
			2.2					
MAY	1T2	200	1.034	-12.55	1.10	-0.06	106	-6
MAY	2T2	200	1.1	-13.27	1.07	0.00	100	0
MAY	3T2	200	1.2	-13.16	1.26	-0.02	102	-2
			1.1					

Table A9. Data for Fig. 2.2. (Including both years)

trt	depth	amt C	total soil C	total soil C	C from soil		C from biochar			
		from biochar	DEC	MAY	Dec	May	Dec	May	stderr	stderr
		mg C / g soil	mg C / g soil	mg C / g soil						
		average						stderr		stderr
C	15		6.48	6.75						
C	30		4.60	4.48						
C	60		3.24	3.32						
C	120		2.39	2.01						
C	200		1.23	1.07						
T	15	7.40	15.21	12.65	7.81	8.04	7.40	1.81	4.61	1.56
T	30	0.05	5.73	5.68	5.68	5.58	0.05	0.02	0.10	0.02
T	60	-0.03	3.48	3.63	3.48	3.63	0.00	0.04	0.00	0.05
T	120	-0.03	2.15	2.38	2.15	2.38	0.00	0.02	0.00	0.01
T	200	0.00	1.28	1.10	1.28	1.10	0.00	0.00	0.00	0.00
T1	15	49.35	59.60	34.10	10.2	8.36	49.3	7.13	25.7	6.95
					5		5		4	
T1	30	0.37	6.83	5.84	6.46	5.72	0.37	0.21	0.12	0.05

T1	60	0.00	3.65	3.41	3.65	3.41	0.00	0.04	0.00	0.03
T1	120	-0.04	2.14	2.19	2.14	2.19	0.00	0.02	0.00	0.03
T1	200	-0.02	1.18	1.06	1.18	1.05	0.00	0.02	0.01	0.01
T2	15	3.92	11.93	9.90	8.01	7.22	3.92	0.99	2.68	1.05
T2	30	0.05	5.40	5.48	5.35	5.43	0.05	0.01	0.05	0.06
T2	60	-0.05	3.34	3.72	3.34	3.72	0.00	0.02	0.00	0.05
T2	120	0.01	2.18	2.24	2.17	2.24	0.01	0.04	0.00	0.02
T2	200	-0.04	1.29	1.11	1.29	1.11	0.00	0.02	0.00	0.02

month	trt	depth	amt C from soil	amt C from biochar	stderr soil	stderr char
			t C / ha	t C / ha		
May	C	15	13.78226		0.45922	
May	T2	15	9.68748	3.81175	0.88466	1.78052
May	T	15	15.03540	8.67508	0.40295	3.06008
May	T1	15	15.58958	48.70071	1.33536	14.34850
May	C	30	9.21395		0.98331	
May	T2	30	11.40085	0.13617	0.42776	0.08476
May	T	30	11.84282	0.20996	1.62303	0.05288
May	T1	30	11.89443	0.24690	1.13047	0.11348
Dec	C	15	13.18389		1.29435	
Dec	T2	15	10.66097	5.39830	0.42086	1.73113
Dec	T	15	14.57524	13.68660	0.91770	2.92298
Dec	T1	15	19.13172	92.32969	1.73067	14.33176
Dec	C	30	9.45074		1.03370	
Dec	T2	30	11.22984	0.10463	0.89023	0.02908
Dec	T	30	12.02848	0.10341	0.70666	0.03706
Dec	T1	30	13.42431	0.75537	0.48147	0.39375

Table A10. Plant biomass. (for 2m2)

Plot	rep	TRT	Biomass type	HUMID					
				biomass + bag	bag	biomass	subs + bag	bag	subs
1	1	C	monocots	504	33.6	470.4	200	33.6	166.4
1	1	C	broad leaves	555	29.3	525.7	253.5	29.3	224.2
1	1	C	TOTAL						
2	1	T	monocots	1015		1015	238	20.7	217.3
2	1	T	broad leaves	1602		1602	289	34	255
2	1	T	legumes	223	33.8	189.2	223	33.8	189.2
2	1	T	TOTAL						
3	2	T	monocots	1927		1927	240	33.9	206.1
3	2	T	broad leaves	579	33.9	545.1	264.5	33.9	230.6
3	2	T	legumes	97	33.8	63.2	97	33.8	63.2

3	2	T	TOTAL							
4	2	C	monocots	796	33.8	762.2	223	33.8	189.2	
4	2	C	broad leaves	323	33.4	289.6	216	33.4	182.6	
4	2	C	legumes	61	33.6	27.4	61	33.6	27.4	
4	2	C	TOTAL							
5	3	C	monocots	534	33.6	500.4	222	33.6	188.4	
5	3	C	broad leaves	126	20.5	105.5	126	20.5	105.5	
5	3	C	legumes	45	20.7	24.3	45	20.7	24.3	
5	3	C	TOTAL							
6	3	T	monocots	744	33.7	710.3	238	33.7	204.3	
6	3	T	broad leaves	2014		2014	252	20.2	231.8	
6	3	T	legumes	875		875	261.5	8.9	252.6	
6	3	T	TOTAL							
				DRY						
				subs						
Plot	rep	TRT	Biomass type	+ bag	bag	subs	DM			
1	1	C	monocots	100.5	32.2	68.3	193.1			
1	1	C	broad leaves	94	28.2	65.8	154.3			
1	1	C	TOTAL				347.4			
2	1	T	monocots	98	19.7	78.3	365.7			
2	1	T	broad leaves	93.4	32.4	61	383.2			
2	1	T	legumes	109.5	32.1	77.4	77.4			
2	1	T	TOTAL				826.4			
3	2	T	monocots	105.5	32.5	73	682.5			
3	2	T	broad leaves	101.6	32.5	69.1	163.3			
3	2	T	legumes	60.6	32	28.6	28.6			
3	2	T	TOTAL				874.5			
4	2	C	monocots	104.6	32.6	72	290.1			
4	2	C	broad leaves	91	32.4	58.6	92.9			
4	2	C	legumes	41.6	31.8	9.8	9.8			
4	2	C	TOTAL				392.8			
5	3	C	monocots	106.3	32.1	74.2	197.1			
5	3	C	broad leaves	55.8	19.3	36.5	36.5			
5	3	C	legumes	30.7	19.3	11.4	11.4			
5	3	C	TOTAL				245.0			
6	3	T	monocots	107.5	32	75.5	262.5			
6	3	T	broad leaves	84.5	19.3	65.2	566.5			
6	3	T	legumes	124.5	31.7	92.8	321.5			
6	3	T	TOTAL				1150.4			

Table A11. Data for Fig. 2.3

POC 15 cm

C date	ug C /ml	err	T date	ug C/ml	err
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5/28/2005	1.01441	1.01441	5/28/2005	1.5400	0.8188
6/10/2005	0.28924	0.28924	6/10/2005	1.4430	
6/24/2005	0.24387	0.01615	6/24/2005	0.9927	0.3665
7/13/2005	0.52098	0.52098	7/13/2005	2.0162	2.0162
7/19/2005	0.42861	0.42861	7/19/2005	4.3246	
8/19/2005	0.69856	0.49287	7/26/2005	4.7364	1.8355
8/26/2005	0.44604	0.44604	8/19/2005	3.5479	1.7217
9/22/2005	0.82210	0.52485	8/26/2005	4.4180	0.0875
9/30/2005	0.82992	0.44453	9/22/2005	2.5376	1.8541
10/27/2005	2.44856	0.82820	9/30/2005	5.1313	1.4648
11/3/2005	0.74070	0.74070	10/6/2005	0.4862	0.4862
3/30/2006	0.50264	0.25717	10/27/2005	5.7501	4.1723
4/8/2006	0.77139	0.39414	11/3/2005	3.4550	3.4550
4/22/2006	0.15869	0.15869	3/30/2006	0.9061	0.3075
4/29/2006	0.31463	0.05987	4/8/2006	1.7139	1.1079
5/10/2006	0.46952	0.01886	4/22/2006	1.0836	
5/28/2006	0.67031	0.17672	4/29/2006	0.6848	0.6848
6/2/2006	0.28220	0.03913	5/10/2006	1.0984	0.0343
6/7/2006	0.56656	0.11082	5/28/2006	0.9972	0.0884
6/10/2006	0.78676	0.05728	6/2/2006	0.6719	0.0865
6/17/2006	0.61334	0.08951	6/7/2006	0.8835	0.1098
6/30/2006	0.89498	0.53609	6/10/2006	0.8011	0.0928
7/28/2006	0.80589	0.16516	6/17/2006	1.4525	0.1574
8/11/2006	1.73467	1.73467	6/30/2006	2.1767	0.7692
8/18/2006	3.54962	1.64584	7/28/2006	0.8394	0.1188
8/25/2006	1.85514	0.47088	8/11/2006	4.4882	4.4882
9/1/2006	2.64145	0.91605	8/18/2006	5.9783	1.6951
9/22/2006	1.35506	0.92028	8/25/2006	4.6169	2.0160
9/29/2006	0.78381	0.39633	9/1/2006	6.8901	1.9545
10/13/2006	2.11420	1.46509	9/22/2006	8.9023	4.6472
10/19/2006	3.39673	2.51333	9/29/2006	7.7300	2.0079
10/27/2006	1.59939	0.46991	10/13/2006	3.4490	3.4490
11/11/2006	0.67524	0.19267	10/19/2006	4.1104	4.1104
11/18/2006	1.04818	0.00717	10/27/2006	3.9565	1.5954
12/15/2006	0.60650	0.00743	11/11/2006	3.3979	0.6807
			11/18/2006	2.9354	1.5217
			12/15/2006	1.6205	0.7120

POC 30 cm

C date	ug C/ml	err	T date	ug C/ml	err
6/24/2005	0.32601	0.32601	5/28/2005	0.7361	0.7361
8/26/2005	1.86114	0.97207	6/10/2005	4.3945	
10/27/2005	1.82230	1.82230	6/24/2005	0.3710	0.1714
3/30/2006	0.54201	0.54201	7/19/2005	1.1041	1.1041
4/29/2006	1.11963	0.74085	8/19/2005	0.7972	0.4281

5/10/2006	0.45598	0.45598	8/26/2005	0.2559	0.2559
6/7/2006	0.47689	0.47689	9/22/2005	1.1814	1.1814
6/10/2006	0.20966	0.20966	9/30/2005	2.1393	1.4202
7/28/2006	0.34818	0.34818	10/27/2005	3.0050	0.4767
10/27/2006	4.41079	0.62983	3/30/2006	1.0840	
12/15/2006	3.25316	0.29957	4/29/2006	0.4723	0.1213
			5/10/2006	0.3880	0.0606
			5/28/2006	0.3921	0.3042
			6/2/2006	0.2692	0.0790
			6/7/2006	0.2889	0.1463
			6/10/2006	0.4726	0.0445
			6/30/2006	0.9475	0.6323
			7/28/2006	1.0385	0.5193
			10/27/2006	3.8174	0.9625
			11/11/2006	7.4697	5.8710
			11/18/2006	0.6574	0.6574
			12/15/2006	7.3266	3.8366

POC 15 cm

C date	kg C /ha	err	T date	kg C /ha	err
5/28/2005	354.773	354.773	5/28/2005	356.64	189.61
6/10/2005	89.737	89.737	6/10/2005	1213.88	
6/24/2005	189.615	13.277	6/24/2005	611.38	84.60
7/13/2005	29.165	29.165	7/13/2005	104.55	104.55
7/19/2005	109.741	109.741	7/19/2005	94.29	
8/19/2005	125.600		7/26/2005	471.08	161.03
8/26/2005	141.392	73.318	8/19/2005	1701.65	401.54
9/22/2005	60.585	60.585	8/26/2005	656.68	106.52
9/30/2005	105.281	85.962	9/22/2005	446.38	293.58
10/27/2005	145.495	79.096	9/30/2005	832.14	435.99
11/3/2005	753.312	159.792	10/6/2005		
3/30/2006	211.472	211.472	10/27/2005	1861.90	1256.74
4/8/2006	213.208	165.455	11/3/2005	1343.73	1343.73
4/22/2006			3/30/2006	266.41	51.47
4/29/2006	23.425	23.425	4/8/2006		
5/10/2006	194.045	76.067	4/22/2006	437.71	
5/28/2006	193.757	47.528	4/29/2006	576.02	576.02
6/2/2006	167.440	34.010	5/10/2006	868.29	27.08
6/7/2006	79.715	31.133	5/28/2006	554.46	100.01
6/10/2006	113.050	58.019	6/2/2006	390.73	115.66
6/17/2006	439.629	184.124	6/7/2006	606.70	302.11
6/30/2006	111.100	46.435	6/10/2006	500.58	203.02
7/28/2006	75.026	43.693	6/17/2006	165.99	72.04
8/11/2006	164.590	33.529	6/30/2006	681.71	243.30
8/18/2006	62.354	62.354	7/28/2006	571.96	136.28
8/25/2006	338.04813	146.90718	8/11/2006	145.4616	145.4616

9/1/2006	138.81901	66.78516	8/18/2006	612.0786	104.2084
9/22/2006	177.15803	66.62995	8/25/2006	467.3838	242.4084
9/29/2006	75.25049	66.29504	9/1/2006	542.9674	148.5176
10/13/2006	210.83743	124.52141	9/22/2006	583.9246	559.8654
10/19/2006	134.24268	74.54186	9/29/2006	1001.2924	628.8653
10/27/2006	324.11478	177.51749	10/13/2006	61.4401	61.4401
11/11/2006	1307.63192	376.75416	10/19/2006	50.3804	50.3804
11/18/2006	144.26385	15.57207	10/27/2006	7806.9183	4362.6977
12/15/2006	77.57851	35.60070	11/11/2006	1972.5969	801.5122
	306.44470	103.56290	11/18/2006	872.6812	578.9802
			12/15/2006	724.2383	321.3281

POC 30 cm

C date	kg C /ha	err	T date	kg C /ha	err
6/24/2005	128.426	128.426	5/28/2005	155.95	155.95
8/26/2005	331.179	165.992	6/10/2005	951.67	
10/27/2005	178.257	178.257	6/24/2005	312.05	144.15
3/30/2006	32.738	32.738	7/19/2005	57.26	57.26
4/29/2006	149.107	5.476	8/19/2005	396.69	224.80
5/10/2006	49.306	49.306	8/26/2005	133.62	133.62
6/7/2006	28.805	28.805	9/22/2005	71.36	71.36
6/10/2006	69.188	69.188	9/30/2005	193.73	96.87
7/28/2006	48.011	48.011	10/27/2005	703.94	628.03
10/27/2006	1347.321	179.989	3/30/2006	65.48	
12/15/2006	775.848	571.342	4/29/2006	397.53	101.88
			5/10/2006	250.42	68.27
			5/28/2006	171.47	151.39
			6/2/2006	67.16	37.26
			6/7/2006	217.39	149.18
			6/10/2006	228.30	104.50
			6/30/2006	171.64	87.31
			7/28/2006	67.36	33.98
			10/27/2006	3202.07	553.12
			11/11/2006	64.71	38.98
			11/18/2006	26.15	26.15
			12/15/2006	164.60	57.77

POC 15 cm

C date	delta	err	T date	delta	err
5/28/2005	-31.471		5/28/2005	-27.29	4.50
6/10/2005	-23.410		6/10/2005	-12.42	
6/24/2005	-14.743	1.409	6/24/2005	-12.79	0.81

7/13/2005	-24.075		7/13/2005	-18.74	
7/19/2005	-21.043		7/19/2005	-17.48	
8/19/2005	-15.572	1.476	7/26/2005	-17.06	1.11
8/26/2005	-17.334		8/19/2005	-15.32	0.83
9/22/2005	-18.822	0.800	8/26/2005	-14.63	0.22
9/30/2005	-16.677	1.223	9/22/2005	-16.08	1.31
10/27/2005	-15.542	0.248	9/30/2005	-15.36	0.79
11/3/2005	-15.652		10/6/2005	-16.86	
3/30/2006	-12.783	0.593	10/27/2005	-12.79	0.79
4/8/2006	-14.117	0.892	11/3/2005	-15.48	
4/22/2006	-9.845		3/30/2006	-12.51	0.41
4/29/2006	-5.320	4.096	4/8/2006	-16.30	3.18
5/10/2006	-11.479	0.504	4/22/2006	-14.49	
5/28/2006	-11.247	2.102	4/29/2006	-10.40	0.70
6/2/2006	-8.965	1.082	5/10/2006	-13.50	0.81
6/7/2006	-11.344	1.909	5/28/2006	-10.78	1.09
6/10/2006	-16.207	0.884	6/2/2006	-10.80	1.12
6/17/2006	-13.274	0.463	6/7/2006	-11.88	0.23
6/30/2006	-14.106	0.476	6/10/2006	-15.83	0.41
7/28/2006	-19.317	0.786	6/17/2006	-14.37	1.37
8/11/2006	-17.943		6/30/2006	-13.37	0.66
8/18/2006	-18.764	0.928	7/28/2006	-16.66	2.21
8/25/2006	-19.22556	0.23216	8/11/2006	-16.6200	
9/1/2006	-18.32397	0.31546	8/18/2006	-16.7036	0.9412
9/22/2006	-16.40925	0.26192	8/25/2006	-15.7601	1.5270
9/29/2006	-16.93666	1.02973	9/1/2006	-15.9165	1.3674
10/13/2006	-17.37861	0.97952	9/22/2006	-14.4169	1.3158
10/19/2006	-15.95575	0.31458	9/29/2006	-15.7246	1.6840
10/27/2006	-16.74814	0.55670	10/13/2006	-14.0754	
11/11/2006	-17.10850	0.57556	10/19/2006	-15.0427	
11/18/2006	-15.02479	2.13473	10/27/2006	-15.4353	1.2409
12/15/2006	-18.27001	0.79164	11/11/2006	-14.9096	0.6036
			11/18/2006	-12.9300	0.6740
			12/15/2006	-15.7229	0.8989

POC 30 cm

C date	delta	err	T date	delta	err
6/24/2005	-23.681		5/28/2005	-27.55	
8/26/2005	-20.654	1.766	6/10/2005	-17.57	
10/27/2005	-18.122		6/24/2005	-13.72	0.82
3/30/2006			7/19/2005	-25.10	
4/29/2006	-15.214	2.090	8/19/2005	-17.67	0.45
5/10/2006	-16.307		8/26/2005	-16.01	
6/7/2006	-15.759		9/22/2005	-19.61	
6/10/2006	-14.747		9/30/2005	-18.77	0.82
7/28/2006	-20.947		10/27/2005	-17.23	2.51

10/27/2006	-20.258	0.187	3/30/2006	-19.30	
12/15/2006	-16.338	0.959	4/29/2006	-13.30	1.95
			5/10/2006	-10.68	1.91
			5/28/2006	-10.06	2.83
			6/2/2006	-9.32	2.20
			6/7/2006	-9.99	
			6/10/2006	-17.06	0.71
			6/30/2006	-14.13	0.74
			7/28/2006	-21.64	1.08
			10/27/2006	-17.42	0.99
			11/11/2006	-16.56	2.34
			11/18/2006	-16.97	
			12/15/2006	-18.30	1.68

DOC 15 cm

C date	ug C/ml	err	T date	ug C/ml	err
5/28/2005	1.718	1.718	5/28/2005	2.92	1.75
6/10/2005	1.215	1.215	6/10/2005	0.00	
6/24/2005	1.605	0.227	6/24/2005	3.01	0.13
7/2/2005	0.000		7/2/2005		
7/13/2005	3.155	3.155	7/13/2005	0.37	0.37
7/19/2005	0.000		7/19/2005	3.64	
7/26/2005	0.000	0.000	7/26/2005	5.25	1.52
8/19/2005	0.473	0.280	8/19/2005	3.52	0.69
8/26/2005	0.269	0.269	8/26/2005	3.28	0.66
9/22/2005	0.920	0.464	9/22/2005	2.63	1.35
9/30/2005	0.965	0.521	9/30/2005	4.79	1.87
10/6/2005	0.000		10/6/2005	1.15	1.15
10/27/2005	0.887	0.468	10/27/2005	2.44	0.60
11/3/2005	0.498	0.498	11/3/2005	1.91	1.91
3/30/2006	1.146	0.577	3/30/2006	4.93	2.21
4/8/2006	1.315	0.660	4/8/2006	3.02	1.89
4/22/2006	0.360	0.360	4/22/2006	6.85	
4/29/2006	0.846	0.191	4/29/2006	4.61	1.38
5/10/2006	1.111	0.363	5/10/2006	4.03	0.87
5/28/2006	0.869	0.195	5/28/2006	2.34	0.92
6/2/2006	0.643	0.146	6/2/2006	2.28	0.67
6/7/2006	1.682	0.845	6/7/2006	2.43	0.62
6/10/2006	2.550	1.266	6/10/2006	1.17	0.32
6/17/2006	0.750	0.412	6/17/2006	2.54	0.44
6/30/2006	1.277	1.002	6/30/2006	2.95	0.78
7/28/2006	20.27290	9.49628	7/28/2006	10.8814	3.6218
8/11/2006	3.53706	3.53706	8/11/2006	3.0032	3.0032
8/18/2006	6.96643	4.59796	8/18/2006	9.1542	1.3568
8/25/2006	2.36729	0.69524	8/25/2006	3.7453	0.6554
9/1/2006	2.80087	0.90886	9/1/2006	4.8628	1.2442

9/22/2006	2.74580	1.86297	9/22/2006	4.3051	2.3091
9/29/2006	1.17667	0.64691	9/29/2006	5.4527	0.7543
10/13/2006	1.78472	0.91414	10/13/2006	1.6667	1.6667
10/19/2006	2.26551	1.13279	10/19/2006	2.1689	2.1689
10/27/2006	2.03808	0.44195	10/27/2006	1.9407	0.0748
11/11/2006	1.63705	0.29814	11/11/2006	2.2586	0.2414
11/18/2006	1.6457785	0.243971	11/18/2006	1.9786	1.0002
12/15/2006	1.7548428	0.585104	12/15/2006	2.0131	0.6386

DOC 30 cm

C date	ug C/ml	err	T date	ug C/ml	err
6/24/2005	1.556	1.556	5/28/2005	3.67	3.67
8/26/2005	4.714	2.907	6/10/2005	0.99	
10/27/2005	0.595	0.595	6/24/2005	1.85	0.14
3/30/2006	0.583	0.583	7/2/2005	0.00	
4/29/2006	3.604	3.028	7/19/2005	5.94	5.94
5/10/2006	0.724	0.724	8/19/2005	0.91	0.49
6/7/2006	1.625	1.625	8/26/2005	1.52	1.52
6/10/2006	0.259	0.259	9/22/2005	4.14	4.14
7/28/2006	7.542	7.542	9/30/2005	4.49	3.80
10/27/2006	1.773	1.773	10/27/2005	2.28	0.96
12/15/2006	3.077	3.077	11/3/2005	0.00	0.00
			3/30/2006	5.71	5.71
			4/29/2006	2.02	0.51
			5/10/2006	0.88	0.01
			5/28/2006	0.48	0.32
			6/2/2006	0.82	0.32
			6/7/2006	0.53	0.36
			6/10/2006	0.56	0.19
			6/30/2006	0.79	0.52
			7/28/2006	27.87	14.25
			10/27/2006	4.80	0.99
			11/11/2006	0.73	0.73
			11/18/2006	0.33	0.33
			12/15/2006	4.20	1.99

DOC 15 cm

C date	kg C/ha	err	T date	kg C/ha	err
5/28/2005	600.743	600.743	5/28/2005	676.07	406.04
6/10/2005	376.908	376.908	6/10/2005	0.00	
6/24/2005	1250.722	199.153	6/24/2005	2016.27	409.55
7/2/2005	0.000		7/2/2005		
7/13/2005	176.607	176.607	7/13/2005	19.41	19.41
7/19/2005	0.000		7/19/2005	79.26	

7/26/2005	0.000	0.000	7/26/2005	744.64	512.74
8/19/2005	194.544	170.800	8/19/2005	2056.67	377.71
8/26/2005	36.587	36.587	8/26/2005	500.85	161.50
9/22/2005	202.062	202.062	9/22/2005	504.70	252.77
9/30/2005	207.193	151.219	9/30/2005	785.21	555.23
10/6/2005	0.000		10/6/2005	199.05	199.05
10/27/2005	379.761	219.268	10/27/2005	603.87	268.29
11/3/2005	142.198	142.198	11/3/2005	741.03	741.03
3/30/2006	470.109	354.810	3/30/2006	1269.88	128.33
4/8/2006	0.000		4/8/2006	0.00	
4/22/2006	53.100	53.100	4/22/2006	2765.38	
4/29/2006	465.229	91.543	4/29/2006	3880.38	1161.26
5/10/2006	547.272	280.859	5/10/2006	3277.75	838.96
5/28/2006	274.640	147.353	5/28/2006	1400.03	640.89
6/2/2006	215.870	123.082	6/2/2006	1697.78	823.34
6/7/2006	435.418	342.416	6/7/2006	1884.86	845.72
6/10/2006	1840.934	1217.269	6/10/2006	964.99	459.69
6/17/2006	159.138	79.646	6/17/2006	305.38	136.52
6/30/2006	78.231	39.724	6/30/2006	1469.93	902.96
7/28/2006	3280.35491	434.02347	7/28/2006	6661.1162	1463.9384
8/11/2006	127.14256	127.14256	8/11/2006	97.3346	97.3346
8/18/2006	446.62419	178.69229	8/18/2006	993.1879	159.2839
8/25/2006	156.35822	62.84307	8/25/2006	364.1522	110.9983
9/1/2006	191.04251	75.65261	9/1/2006	380.6211	84.8306
9/22/2006	460.42489	454.72807	9/22/2006	293.8250	282.8989
9/29/2006	366.89747	271.03430	9/29/2006	577.6637	242.0950
10/13/2006	171.30044	129.37737	10/13/2006	29.6904	29.6904
10/19/2006	299.42754	188.25118	10/19/2006	26.5836	26.5836
10/27/2006	1707.85041	385.66070	10/27/2006	3310.2422	579.2245
11/11/2006	376.47521	71.67164	11/11/2006	1154.2321	372.5052
11/18/2006	113.78657	38.61976	11/18/2006	573.2083	362.4380
12/15/2006	947.54471	411.0891	12/15/2006	904.8757	293.5106

DOC 30 cm

C date	kg C/ha	err	T date	kg C/ha	err
6/24/2005	613.101	613.101	5/28/2005	776.72	776.72
8/26/2005	810.792	456.373	6/10/2005	215.34	
10/27/2005	58.217	58.217	6/24/2005	1557.57	116.33
3/30/2006	100.192	100.192	7/2/2005	0.00	
4/29/2006	416.946	231.388	7/19/2005	307.80	307.80
5/10/2006	78.278	78.278	8/19/2005	451.68	256.16
6/7/2006	98.170	98.170	8/26/2005	792.32	792.32
6/10/2006	85.335	85.335	9/22/2005	249.91	249.91
7/28/2006	1039.901	1039.901	9/30/2005	328.51	212.99
10/27/2006	716.218	716.218	10/27/2005	383.20	312.52
12/15/2006	1166.711	1166.711	11/3/2005	0.00	0.00

			3/30/2006	345.17	345.17
			4/29/2006	1696.72	432.21
			5/10/2006	545.63	101.42
			5/28/2006	198.86	160.24
			6/2/2006	251.34	183.61
			6/7/2006	476.53	410.43
			6/10/2006	197.90	100.87
			6/30/2006	145.19	73.30
			7/28/2006	1791.55	900.00
			10/27/2006	4546.27	1731.80
			11/11/2006	12.99	12.99
			11/18/2006	12.95	12.95
			12/15/2006	191.06	126.15

DOC 15 cm

C date	delta	err	T date	delta	err
5/28/2005	-14.598	0.000	5/28/2005	-16.52	0.33
6/10/2005	-9.470	0.000	6/10/2005		0.00
6/24/2005	-18.873	1.535	6/24/2005	-17.72	0.56
7/2/2005			7/2/2005		0.00
7/13/2005	-36.400	0.000	7/13/2005	-20.11	0.00
7/19/2005			7/19/2005	-21.27	0.00
7/26/2005			7/26/2005	-16.98	3.96
8/19/2005	-13.877	1.152	8/19/2005	-17.64	1.53
8/26/2005	-19.094	0.000	8/26/2005	-17.74	0.56
9/22/2005	-19.175	1.505	9/22/2005	-15.97	1.00
9/30/2005	-18.860	0.099	9/30/2005	-15.19	1.49
10/6/2005		0.000	10/6/2005	-19.49	0.00
10/27/2005	-19.692	0.021	10/27/2005	-18.34	1.22
11/3/2005	-20.239	0.000	11/3/2005	-16.49	0.00
3/30/2006	-17.519	0.461	3/30/2006	-18.60	1.92
4/8/2006	-18.064	0.511	4/8/2006	-17.08	1.97
4/22/2006	-18.281	0.000	4/22/2006	-15.58	0.00
4/29/2006	-19.342	0.240	4/29/2006	-15.97	0.50
5/10/2006	-18.206	1.149	5/10/2006	-16.22	0.49
5/28/2006	-18.577	1.275	5/28/2006	-16.62	0.47
6/2/2006	-19.303	0.570	6/2/2006	-17.35	0.79
6/7/2006	-18.715	1.131	6/7/2006	-16.93	0.15
6/10/2006	-20.468	1.931	6/10/2006	-17.81	0.59
6/17/2006	-18.414	0.773	6/17/2006	-18.88	1.71
6/30/2006	-17.979	0.281	6/30/2006	-17.89	0.92
7/28/2006	-13.06244	0.11618	7/28/2006	-13.0744	0.7913
8/11/2006	-16.87122	0.00000	8/11/2006	-16.2318	0.0000
8/18/2006	-15.94848	1.41044	8/18/2006	-13.7140	0.2174
8/25/2006	-16.40932	1.05887	8/25/2006	-14.6028	1.1409
9/1/2006	-18.38336	1.49673	9/1/2006	-17.0272	1.3153

9/22/2006	-17.49261	0.42245	9/22/2006	-18.2898	2.5603
9/29/2006	-17.08111	0.17989	9/29/2006	-15.2391	1.5358
10/13/2006	-17.62902	0.62342	10/13/2006	-18.3117	0.0000
10/19/2006	-16.71245	0.80622	10/19/2006	-19.5773	0.0000
10/27/2006	-15.70668	1.66079	10/27/2006	-16.4119	0.3910
11/11/2006	-17.86963	1.81017	11/11/2006	-18.4315	1.0951
11/18/2006	-15.014253	0.159555	11/18/2006	-16.7977	1.5579
12/15/2006	-18.540336	1.158447	12/15/2006	-16.9473	0.9446

DOC 30 cm

C date	delta	err	T date	delta	err
6/24/2005	-14.657	0.000	5/28/2005	-20.33	0.00
8/26/2005	-31.946	1.855	6/10/2005	-19.26	0.00
10/27/2005	-19.692	0.000	6/24/2005	-19.30	0.85
3/30/2006	-28.716	0.000	7/2/2005		
4/29/2006	-24.950	3.654	7/19/2005	-32.20	0.00
5/10/2006	-19.350	0.000	8/19/2005	-13.83	1.03
6/7/2006	-17.766	0.000	8/26/2005	-18.27	0.00
6/10/2006	-19.416	0.000	9/22/2005	-27.63	0.00
7/28/2006	-14.040	0.000	9/30/2005	-16.52	0.22
10/27/2006	-13.008	0.000	10/27/2005	-19.24	2.58
12/15/2006	-14.563	0.000	11/3/2005		
			3/30/2006	-33.97	0.00
			4/29/2006	-17.91	0.43
			5/10/2006	-19.70	1.05
			5/28/2006	-20.99	2.58
			6/2/2006	-19.70	0.99
			6/7/2006	-17.35	0.12
			6/10/2006	-19.53	0.90
			6/30/2006	-19.95	0.66
			7/28/2006	-19.43	5.34
			10/27/2006	-11.40	1.84
			11/11/2006	-21.00	0.00
			11/18/2006	-21.41	0.00
			12/15/2006	-20.58	0.66

Table A12. Data for Fig. 2.4.

Year 1

date	BC	control	err BC	err control
5/20/2006	159.49505	117.1975	1.360089	10.582155
5/28/2006	157.52338	98.55	12.73	18.149204
6/2/2006	192.15929	127.54	7.25	17.345146
6/10/2006	124.41054	79.07	14.47	19.733324
6/16/2006	179.09002	116.76	23.02	7.5365287

6/23/2006	157.50777	118.32	13.36	13.828614
6/30/2006	179.20818	117.40	18.78	2.902177
7/7/2006	88.250994	65.44	2.59	6.8856166
7/14/2006	107.94582	77.06	6.48	0.1487103
7/22/2006	148.46774	136.86	6.32	9.4401104
7/28/2006	253.31842	169.27	11.89	9.4142865
8/4/2006	192.05114	141.63	11.89	9.4142865
8/11/2006	104.46724	77.04	3.23	3.5018236
8/18/2006	114.83503	83.41	4.89	3.824055
9/1/2006	85.845024	58.99	8.97	5.2450155
9/15/2006	116.532	65.71	10.09	4.4566894
9/29/2006	137.22902	84.29	5.83	4.4033291
10/13/2006	184.55459	122.56	10.29	5.998648
10/27/2006	98.605932	78.71	2.58	1.9676274
11/10/2006	115.18225	88.27	12.95	3.370887
11/24/2006	108.13743	92.69	2.18	2.9623403
12/8/2006	81.925553	71.41	2.51	0.4599882

Year 2

date	BC	err BC	control	err control
4/8/2006	70.855659	3.309926	66.45772	0.2585744
4/22/2006	74.100944	3.27419	65.86108	2.6273706
4/29/2006	69.693435	11.72112	66.19814	2.9330615
5/6/2006	66.722371	4.209554	57.19473	6.2129964
5/13/2006	74.165546	2.262773	63.69455	2.3181751
5/20/2006	65.965174	2.255827	54.41652	2.1163457
5/28/2006	58.337039	0.646012	46.35063	5.5893305
6/2/2006	76.138761	1.228923	66.25299	2.1422891
6/10/2006	45.335641	1.448258	40.03853	0.6765723
6/16/2006	77.383364	1.766081	71.4987	3.4547191
6/23/2006	84.775114	3.892853	68.43177	2.4258949
6/30/2006	78.000514	2.804323	63.83144	3.4402202
7/7/2006	56.444066	1.237146	44.79917	3.9219532
7/14/2006	88.974465	9.419754	72.70675	1.7432522
7/22/2006	132.85993	3.914593	118.155	5.4771502
7/28/2006	147.73665	9.548257	124.2596	11.760529
8/4/2006	122.78534	5.50814	101.2006	3.9373071
8/11/2006	74.569473	5.258714	61.91319	5.1754116
8/18/2006	45.087885	2.945914	42.44132	4.9888944
9/1/2006	83.968367	2.52936	74.97004	3.1410586
9/15/2006	72.673238	2.50689	59.09907	2.8392853
9/29/2006	86.663323	5.713296	66.72737	5.1775408
10/13/2006	89.542088	3.069986	68.18827	6.912166
10/27/2006	78.664772	6.011708	70.8222	7.3044979
11/10/2006	59.200887	7.518822	45.65003	1.8005329
11/24/2006	88.939664	3.411714	69.34194	4.11413

12/8/2006	65.627238	3.02558	54.44023	3.2700749
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Data for bottom panels in Table A7.

APPENDIX B

Raw data and extra graphs pertaining to Chapter 3.

Table B1. Maize biomass. Grain yield is at 15% moisture.

year	rep	trt	grain kg/ha	vegetative kg/ha
2003	3	0	5058.337	5131.458
2003	3	8	4781.776	5505.135
2003	3	20	4640.198	5469.182
2003	2	0	5080.574	5959.205
2003	2	8	5114.712	6042.94
2003	2	20	4742.34	6404
2003	1	0	4656.713	5149.825
2003	1	8	4798.857	5138.208
2003	1	20	5008.406	6575.524
2004	3	0	4662.429	5344.688
2004	3	8	5812.919	6044.383
2004	3	20	5901.547	6748.508
2004	2	0	5175.691	5326.088
2004	2	8	5757.426	5870.813
2004	2	20	7228.049	7996.854
2004	1	0	5202.635	5040.65
2004	1	8	6262.729	6444.688
2004	1	20	6170.75	7245.754
2005	3	0	5737.188	6797.811
2005	3	8	7392.585	9575.663
2005	3	20	7296.79	7093.071
2005	2	0	5918.442	7036.081
2005	2	8	7113.073	7137.375
2005	2	20	8399.83	8728.972
2005	1	0	5684.123	7451.27
2005	1	8	5357.756	7971.044
2005	1	20	6811.676	6734.832
2006	3	0	1708.460	3278.798
2006	3	8	3164.926	
2006	3	20	4790.040	6618.527
2006	2	0	2099.951	3148.367
2006	2	8	3759.530	
2006	2	20	5102.134	7146.146
2006	1	0	1708.493	3108.371
2006	1	8	2490.940	
2006	1	20	3368.890	4876.032

Table B2. Data for Figure 3.1.

	0 kg/ha	8 kg/ha	20 kg/ha	std err 0	std err 8	std err 20
2003	4931.87	4898.45	4796.98	137.73	108.24	109.75
2004	5013.59	5944.36	6433.45	175.75	159.99	404.83
2005	5779.92	6621.14	7502.77	70.94	636.82	469.89
2006	1838.97	3138.47	4420.35	130.49	366.45	533.40

Table B3. Nutrient contents of maize biomass

				Ca	P	Mg	K	Na
year	part	rep	trt	g/kg	g/kg	g/kg	g/kg D	g/kg
3	grain	3	0	0.018	4.012	1.427	4.188	0.076
3	grain	2	0	0.027	3.678	1.317	3.893	0.051
3	grain	1	0	0.028	3.499	1.205	3.824	0.106
3	grain	2	8	0.026	4.532	1.611	4.677	0.055
3	grain	3	8	0.022	3.970	1.392	4.241	0.080
3	grain	1	8	0.026	3.475	1.237	3.758	0.085
3	grain	3	20	0.023	3.002	1.083	3.204	0.077
3	grain	1	20	0.017	3.002	1.050	3.287	0.080
3	grain	2	20	0.026	3.182	1.120	3.575	0.079
4	grain	2	0	0.035	3.369	1.194	4.075	0.072
4	grain	1	0	0.046	3.477	1.268	4.049	0.081
4	grain	3	0	0.031	3.188	1.140	3.804	0.068
4	grain	3	8	0.032	3.486	1.245	4.134	0.063
4	grain	1	8	0.008	2.529	0.887	3.120	0.077
4	grain	2	8	0.031	3.719	1.337	4.380	0.078
4	grain	3	20	0.033	3.924	1.401	4.647	0.074
4	grain	1	20	0.024	3.285	1.176	3.951	0.091
4	grain	2	20	0.031	3.516	1.238	4.209	0.078
5	grain	1	0	0.000	2.322	1.192	3.297	0.106
5	grain	3	0	0.001	2.497	1.341	3.469	0.081
5	grain	2	0	0.003	2.333	1.202	3.375	0.085
5	grain	3	8	0.000	2.469	1.194	3.386	0.072
5	grain	2	8	0.000	2.464	1.181	3.357	0.074
5	grain	1	8	0.000	2.565	1.242	3.387	0.108
5	grain	1	20	0.002	2.441	1.162	3.199	0.076
5	grain	2	20	0.000	2.416	1.193	3.116	0.066
5	grain	3	20	0.001	2.974	1.413	3.824	0.104
6	grain	1	0	0.000	2.224	0.946	3.910	0.071
6	grain	3	0	0.000	2.537	1.033	4.097	0.069

6	grain	2	0	0.000	2.097	0.865	3.304	0.067
6	grain	3	20	0.000	2.340	0.991	3.771	0.068
6	grain	2	20	0.000	1.991	0.944	3.541	0.102
6	grain	1	20	0.000	1.947	0.808	3.233	0.072
				Ca	P	Mg	K	Na
year	part	rep	trt	g/kg	g/kg	g/kg	g/kg D	g/kg
6	leaf at tassel	2	0	1.248	2.336	0.920	20.987	0.135
6	leaf at tassel	1	0	0.835	2.219	0.833	20.432	0.137
6	leaf at tassel	3	0	1.157	2.164	1.004	23.685	0.346
6	leaf at tassel	1	20	1.165	2.123	0.901	20.969	0.133
6	leaf at tassel	2	20	1.477	2.235	1.030	21.291	0.123
6	leaf at tassel	3	20	1.452	2.605	1.152	23.173	0.140
3	vegetative	2	0	1.139	0.178	0.878	3.502	0.106
3	vegetative	3	0	1.243	0.203	1.025	2.773	0.103
3	vegetative	3	8	1.510	0.417	1.336	3.450	0.202
3	vegetative	1	8	1.022	0.262	0.902	3.242	0.118
3	vegetative	2	8	1.180	0.334	0.793	3.191	0.098
3	vegetative	1	20	1.090	0.293	0.936	4.895	0.077
3	vegetative	2	20	1.467	0.338	1.090	4.182	0.091
3	vegetative	3	20	1.786	0.312	1.147	5.659	0.097
4	vegetative	1	0	0.542	0.314	0.652	9.554	0.078
4	vegetative	2	8	1.679	0.250	1.294	5.091	0.105
4	vegetative	1	8	0.478	0.206	0.790	6.025	0.116
4	vegetative	2	20	0.595	0.248	0.720	8.913	0.090
5	vegetative	3	0	1.066	0.369	1.210	11.685	0.050
5	vegetative	1	0	1.146	0.271	1.131	9.461	0.065
5	vegetative	2	0	0.909	0.424	0.855	9.753	0.090
5	vegetative	3	8	0.892	1.332	1.805	6.564	0.048
5	vegetative	1	8	0.733	0.226	0.950	8.253	0.067
5	vegetative	2	8	1.178	0.318	1.498	8.647	0.071
5	vegetative	3	20	1.338	0.583	1.673	12.466	0.069
5	vegetative	1	20	0.959	0.428	1.102	12.246	0.069
5	vegetative	2	20	1.385	0.426	1.224	13.585	0.069
6	vegetative	3	0	0.636	0.430	0.704	7.009	0.012
6	vegetative	3	20	0.901	0.332	0.980	11.845	0.019
6	vegetative	2	0	0.501	0.406	0.433	9.429	0.022
6	vegetative	2	20	0.682	0.242	0.777	11.306	0.004
6	vegetative	1	0	0.663	0.546	0.703	9.493	0.007
6	vegetative	1	20	0.852	0.572	1.048	12.346	0.022

				Fe	Zn	Cu	Mn	Mo
year	part	rep	trt	g/kg	g/kg	g/kg	g/kg	g/kg
3	grain	3	0	0.034	0.035	0.003	0.010	0.000
3	grain	2	0	0.029	0.031	0.002	0.009	0.000
3	grain	1	0	0.041	0.030	0.002	0.009	0.000
3	grain	2	8	0.037	0.038	0.003	0.011	0.000

3	grain	3	8	0.049	0.034	0.003	0.009	0.000
3	grain	1	8	0.038	0.032	0.003	0.009	0.000
3	grain	3	20	0.027	0.027	0.002	0.008	0.000
3	grain	1	20	0.034	0.026	0.002	0.007	0.000
				Fe	Zn	Cu	Mn	Mo
year	part	rep	trt	g/kg	g/kg	g/kg	g/kg	g/kg
3	grain	2	20	0.032	0.027	0.002	0.008	0.000
4	grain	2	0	0.034	0.027	0.002	0.006	0.000
4	grain	1	0	0.035	0.029	0.003	0.007	0.000
4	grain	3	0	0.030	0.026	0.003	0.006	0.000
4	grain	3	8	0.032	0.030	0.002	0.007	0.000
4	grain	1	8	0.026	0.022	0.002	0.004	0.000
4	grain	2	8	0.035	0.033	0.003	0.007	0.000
4	grain	3	20	0.036	0.035	0.003	0.008	0.000
4	grain	1	20	0.033	0.030	0.003	0.007	0.000
4	grain	2	20	0.036	0.031	0.002	0.007	0.000
5	grain	1	0	0.030	0.028	0.002	0.005	0.000
5	grain	3	0	0.031	0.030	0.002	0.006	0.000
5	grain	2	0	0.030	0.030	0.002	0.006	0.000
5	grain	3	8	0.031	0.027	0.002	0.005	0.000
5	grain	2	8	0.029	0.028	0.002	0.005	0.000
5	grain	1	8	0.033	0.028	0.002	0.005	0.000
5	grain	1	20	0.028	0.029	0.002	0.006	0.000
5	grain	2	20	0.035	0.029	0.002	0.006	0.000
5	grain	3	20	0.033	0.034	0.002	0.007	0.000
6	grain	1	0	0.036	0.027	0.002	0.005	0.000
6	grain	3	0	0.026	0.031	0.002	0.005	0.000
6	grain	2	0	0.021	0.027	0.002	0.004	0.000
6	grain	3	20	0.030	0.026	0.002	0.005	0.000
6	grain	2	20	0.028	0.028	0.002	0.005	0.000
6	grain	1	20	0.022	0.025	0.002	0.004	0.000
6	leaf at tassel	2	0	0.236	0.032	0.010	0.021	0.001
6	leaf at tassel	1	0	0.149	0.030	0.007	0.015	0.000
6	leaf at tassel	3	0	0.112	0.032	0.011	0.018	0.000
6	leaf at tassel	1	20	0.083	0.025	0.007	0.016	0.000
6	leaf at tassel	2	20	0.187	0.032	0.009	0.029	0.000
6	leaf at tassel	3	20	0.150	0.031	0.008	0.030	0.000
3	vegetative	2	0	0.080	0.015	0.002	0.029	0.000
3	vegetative	3	0	0.067	0.008	0.002	0.020	0.000
3	vegetative	3	8	0.083	0.018	0.003	0.037	0.000
3	vegetative	1	8	0.049	0.016	0.002	0.029	0.000
3	vegetative	2	8	0.180	0.014	0.002	0.023	0.000
3	vegetative	1	20	0.079	0.016	0.003	0.040	0.000
3	vegetative	2	20	0.105	0.013	0.002	0.044	0.000
3	vegetative	3	20	0.084	0.020	0.003	0.050	0.000
4	vegetative	1	0	0.080	0.022	0.002	0.021	0.000
4	vegetative	2	8	0.118	0.035	0.004	0.038	0.000
4	vegetative	1	8	0.053	0.010	0.002	0.010	0.000

4	vegetative	2	20	0.043	0.017	0.003	0.024	0.000
5	vegetative	3	0	0.059	0.031	0.002	0.024	0.000
5	vegetative	1	0	0.070	0.043	0.003	0.022	0.000
				Fe	Zn	Cu	Mn	Mo
year	part	rep	trt	g/kg	g/kg	g/kg	g/kg	g/kg
5	vegetative	2	0	0.084	0.035	0.002	0.018	0.000
5	vegetative	3	8	0.142	0.039	0.003	0.026	0.001
5	vegetative	1	8	0.045	0.033	0.002	0.032	0.000
5	vegetative	2	8	0.095	0.025	0.003	0.026	0.000
5	vegetative	3	20	0.093	0.038	0.004	0.040	0.001
5	vegetative	1	20	0.064	0.031	0.003	0.028	0.000
5	vegetative	2	20	0.073	0.025	0.002	0.036	0.000
6	vegetative	3	0	0.170	0.039	0.002	0.019	0.000
6	vegetative	3	20	0.093	0.025	0.002	0.032	0.000
6	vegetative	2	0	0.161	0.068	0.002	0.025	0.000
6	vegetative	2	20	0.100	0.022	0.002	0.027	0.000
6	vegetative	1	0	0.226	0.048	0.002	0.022	0.000
6	vegetative	1	20	0.157	0.037	0.002	0.036	0.000

				B	Al	S	Cr	Co
year	part	rep	trt	g/kg	g/kg	g/kg	g/kg	g/kg
3	grain	3	0	0.052	0.025	1.038	0.001	0.000
3	grain	2	0	0.036	0.017	1.051	0.001	0.000
3	grain	1	0	0.083	0.043	1.116	0.001	0.000
3	grain	2	8	0.040	0.022	1.110	0.001	0.000
3	grain	3	8	0.060	0.028	1.056	0.002	0.001
3	grain	1	8	0.066	0.033	1.065	0.001	0.000
3	grain	3	20	0.054	0.019	1.019	0.001	0.000
3	grain	1	20	0.059	0.034	1.087	0.001	0.000
3	grain	2	20	0.058	0.027	1.091	0.001	0.000
4	grain	2	0	0.051	0.024	1.252	0.001	0.000
4	grain	1	0	0.061	0.025	1.207	0.001	0.000
4	grain	3	0	0.049	0.020	1.212	0.001	0.000
4	grain	3	8	0.041	0.019	1.110	0.001	0.000
4	grain	1	8	0.052	0.021	1.091	0.001	0.000
4	grain	2	8	0.059	0.022	1.100	0.001	0.000
4	grain	3	20	0.050	0.021	1.132	0.002	0.000
4	grain	1	20	0.068	0.028	1.112	0.001	0.000
4	grain	2	20	0.061	0.026	1.127	0.001	0.000
5	grain	1	0	0.075	0.028	0.863	0.001	0.000
5	grain	3	0	0.056	0.024	0.886	0.001	0.000
5	grain	2	0	0.058	0.024	0.850	0.001	0.000
5	grain	3	8	0.055	0.031	0.842	0.001	0.000
5	grain	2	8	0.054	0.022	0.857	0.001	0.000
5	grain	1	8	0.069	0.027	0.864	0.001	0.000
5	grain	1	20	0.053	0.028	0.843	0.001	0.000
5	grain	2	20	0.044	0.018	0.810	0.001	0.000

5	grain	3	20	0.073	0.031	0.917	0.001	0.000
6	grain	1	0	0.049	0.045	0.608	0.001	0.000
6	grain	3	0	0.050	0.031	0.622	0.001	0.000
				B	Al	S	Cr	Co
year	part	rep	trt	g/kg	g/kg	g/kg	g/kg	g/kg
6	grain	2	0	0.048	0.018	0.592	0.001	0.000
6	grain	3	20	0.051	0.020	0.662	0.001	0.000
6	grain	2	20	0.065	0.022	0.668	0.001	0.000
6	grain	1	20	0.049	0.024	0.596	0.001	0.000
6	leaf at tassel	2	0	0.084	0.349	1.654	0.001	0.000
6	leaf at tassel	1	0	0.081	0.183	1.413	0.001	0.000
6	leaf at tassel	3	0	0.188	0.125	1.209	0.001	0.000
6	leaf at tassel	1	20	0.067	0.057	1.387	0.001	0.000
6	leaf at tassel	2	20	0.068	0.163	1.805	0.004	0.000
6	leaf at tassel	3	20	0.069	0.155	1.656	0.002	0.000
3	vegetative	2	0	0.068	0.128	0.381	0.001	0.000
3	vegetative	3	0	0.066	0.197	0.331	0.001	0.000
3	vegetative	3	8	0.079	0.102	0.536	0.001	0.000
3	vegetative	1	8	0.066	0.061	0.382	0.001	0.000
3	vegetative	2	8	0.055	0.303	0.396	0.001	0.000
3	vegetative	1	20	0.055	0.089	0.405	0.001	0.000
3	vegetative	2	20	0.059	0.148	0.471	0.001	0.000
3	vegetative	3	20	0.059	0.133	0.615	0.001	0.000
4	vegetative	1	0	0.056	0.099	0.388	0.001	0.000
4	vegetative	2	8	0.073	0.151	0.464	0.001	0.000
4	vegetative	1	8	0.083	0.090	0.239	0.001	0.000
4	vegetative	2	20	0.060	0.047	0.359	0.000	0.000
5	vegetative	3	0	0.053	0.072	0.375	0.001	0.000
5	vegetative	1	0	0.062	0.068	0.424	0.001	0.000
5	vegetative	2	0	0.074	0.099	0.432	0.001	0.000
5	vegetative	3	8	0.053	0.228	0.635	0.001	0.000
5	vegetative	1	8	0.064	0.047	0.248	0.001	0.000
5	vegetative	2	8	0.068	0.090	0.438	0.002	0.000
5	vegetative	3	20	0.073	0.131	0.519	0.001	0.000
5	vegetative	1	20	0.066	0.087	0.419	0.001	0.000
5	vegetative	2	20	0.062	0.086	0.517	0.001	0.000
6	vegetative	3	0	0.010	0.302	0.353	0.000	0.000
6	vegetative	3	20	0.023	0.118	0.380	0.000	0.000
6	vegetative	2	0	0.024	0.241	0.395	0.000	0.000
6	vegetative	2	20	0.017	0.050	0.363	0.000	0.000
6	vegetative	1	0	0.009	0.396	0.381	0.001	0.000
6	vegetative	1	20	0.024	0.187	0.492	0.001	0.000

				Sr
year	part	rep	trt	g/kg
3	grain	3	0	0.000
3	grain	2	0	0.000

3	grain	1	0	0.001
3	grain	2	8	0.000
				Sr
year	part	rep	trt	g/kg
3	grain	3	8	0.000
3	grain	1	8	0.000
3	grain	3	20	0.000
3	grain	1	20	0.000
3	grain	2	20	0.000
4	grain	2	0	0.000
4	grain	1	0	0.000
4	grain	3	0	0.000
4	grain	3	8	0.000
4	grain	1	8	0.000
4	grain	2	8	0.000
4	grain	3	20	0.000
4	grain	1	20	0.000
4	grain	2	20	0.000
5	grain	1	0	0.000
5	grain	3	0	0.000
5	grain	2	0	0.000
5	grain	3	8	0.000
5	grain	2	8	0.000
5	grain	1	8	0.000
5	grain	1	20	0.000
5	grain	2	20	0.000
5	grain	3	20	0.000
6	grain	1	0	0.000
6	grain	3	0	0.000
6	grain	2	0	0.000
6	grain	3	20	0.000
6	grain	2	20	0.000
6	grain	1	20	0.000
6	leaf at tassel	2	0	0.004
6	leaf at tassel	1	0	0.002
6	leaf at tassel	3	0	0.004
6	leaf at tassel	1	20	0.004
6	leaf at tassel	2	20	0.004
6	leaf at tassel	3	20	0.004
3	vegetative	2	0	0.005
3	vegetative	3	0	0.004
3	vegetative	3	8	0.006
3	vegetative	1	8	0.004
3	vegetative	2	8	0.005
3	vegetative	1	20	0.005
3	vegetative	2	20	0.006

3	vegetative	3	20	0.007
4	vegetative	1	0	0.003
4	vegetative	2	8	0.006
				Sr
year	part	rep	trt	g/kg
4	vegetative	1	8	0.002
4	vegetative	2	20	0.003
5	vegetative	3	0	0.004
5	vegetative	1	0	0.004
5	vegetative	2	0	0.004
5	vegetative	3	8	0.003
5	vegetative	1	8	0.004
5	vegetative	2	8	0.004
5	vegetative	3	20	0.006
5	vegetative	1	20	0.005
5	vegetative	2	20	0.005
6	vegetative	3	0	0.003
6	vegetative	3	20	0.004
6	vegetative	2	0	0.003
6	vegetative	2	20	0.003
6	vegetative	1	0	0.003
6	vegetative	1	20	0.004

Table B4. Nutrient content of soybean in 2006.

			Ca	P	Mg	K	Na	Fe
part	rep	trt	g/kg	g/kg	g/kg	g/kg	mg/kg	mg/kg
grain	3	0	2.095	6.783	2.928	18.119	18.723	94.001
stalks + pods	3	0	3.367	0.545	4.610	15.592	106.487	122.633
grain	2	0	2.373	5.919	2.886	18.257	26.053	100.660
stalks + pods	2	0	4.606	0.366	6.452	15.202	117.520	159.154
grain	1	0	2.017	1.114	3.174	18.957	19.310	87.604
stalks + pods	1	0	4.126	0.453	5.723	15.947	83.010	166.019
grain	3	20	2.093	6.287	2.963	18.473	20.083	91.616
stalks + pods	3	20	3.734	0.418	4.809	14.853	94.646	137.623
grain	2	20	2.228	5.727	2.948	18.131	33.747	105.177
stalks + pods	2	20	3.912	0.319	5.390	14.455	78.989	95.789
grain	1	20	1.887	6.604	2.820	18.051	18.392	92.122
stalks + pods	1	20	3.550	0.440	4.892	15.664	84.291	140.081

			Zn	Cu	Mn	Mo	B	Al
part	rep	trt	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	g/kg
grain	3	0	93.703	15.923	31.302	<det	28.405	0.013
stalks + pods	3	0	49.195	5.175	24.384	0.189	73.722	0.201
grain	2	0	84.519	14.004	38.266	<det	29.416	0.006
stalks + pods	2	0	24.956	3.789	42.549	0.423	66.339	0.194
grain	1	0	86.759	15.802	31.861	<det	29.415	0.005
stalks + pods	1	0	41.845	4.383	32.102	0.087	44.791	0.228

grain	3	20	87.924	16.029	33.909	<det	30.233	0.005
stalks + pods	3	20	37.598	4.671	39.366	0.187	59.479	0.145
grain	2	20	86.074	14.050	42.141	<det	31.443	0.005
stalks + pods	2	20	33.236	3.839	47.252	0.807	43.710	0.145
grain	1	20	82.521	15.623	37.859	<det	29.020	0.006
stalks + pods	1	20	35.705	4.820	47.621	0.054	49.327	0.187

			S	Cr	Co	Sr	N
part	rep	trt	g/kg	mg/kg	ug/kg	mg/kg	g/kg
grain	3	0					82.8
stalks + pods	3	0	0.697	2.680	568.182	17.926	6.2
grain	2	0					83.1
stalks + pods	2	0	0.585	3.524	797.244	24.897	6.9
grain	1	0					83.0
stalks + pods	1	0	0.917	3.291	587.379	20.248	6.3
grain	3	20					80.2
stalks + pods	3	20	0.639	2.672	574.656	22.024	6.2
grain	2	20					81.1
stalks + pods	2	20	0.618	3.276	616.135	21.658	5.3
grain	1	20					82.3
stalks + pods	1	20	0.686	3.227	655.296	21.647	6.6

Table B5. Soybean biomass in 2006. Grain biomass is at 15% moisture.

		grain	vegetative
trt	rep	kg/ha	kg/ha
0	1	1377.729	no data
0	2	1067.681	no data
0	3	1377.817	no data
8	1	1399.678	1214.322
8	2	960.6137	1090.015
8	3	903.9375	1936.443
20	1	1305.116	1654.184
20	2	1309.395	1608.48
20	3	1447.422	1945.588

Table B6. Data for Figure 3.2.

		N		Ca		P		
year	trt	g/ha	std err	g /ha	std err	g /ha	std err	
	3	0	133221.1	2264.08	6552.307	195.9055	19454.59	1181.036
	3	8	136840.0	4861.52	7018.099	886.3015	21501.54	2075.086
	3	20	137187.8	3285.17	8879.536	820.7309	16618.22	500.3975
	4	0	123070.7	4548.24	3024.091	29.265	18440.57	964.9779

4	8	133559.9	5109.84	6623.736	1994.719	20561.84	1735.035
4	20	147343.5	6824.31	3213.026	1516.352	24208.42	1625.415
5	0	109593.5	2178.68	7404.006	617.6882	16280.47	533.6368
5	8	143574.0	17263.48	7596.25	877.1782	22112.54	4612.402
5	20	144170.3	14441.28	9354.365	1623.172	23119.89	1879.404
6	0	30451.0	1969.30	1941.614	284.7545	6151.192	88.72161
6	20	70329.5	7859.40	5056.526	347.1057	12179.34	1070.799

year	trt	Mg		K		Cu	
		g /ha	std err	g /ha	std err	g /ha	std err
3	0	11637.73	585.8269	36677.48	2030.357	21.22267	0.880502
3	8	12537.29	1023.538	39057.57	2459.322	27.39414	1.010958
3	20	11667.97	312.7385	46067.77	1424.555	28.16798	1.436875
4	0	9447.151	328.9414	70000.94	994.7341	25.41839	0.352522
4	8	13157.75	1355.314	57030.34	986.6307	32.50445	4.408027
4	20	11816.64	1886.624	72700.5	22927.96	32.68203	8.084503
5	0	14752.31	836.3517	92389.2	3477.981	28.06228	2.089314
5	8	19810.73	3451.616	85804.48	1147.116	34.81949	6.80078
5	20	19409.89	2079.276	121782.9	12000.87	38.79649	2.305471
6	0	3838.252	299.9832	36771.92	3048.92	9.727038	0.519841
6	20	9893.84	710.5558	85618.4	13377.77	20.54068	1.446195

year	trt	Al		Sr	
		g /ha	std err	g /ha	std err
3	0	1004.179	84.84142	23.82703	2.38733
3	8	1037.168	457.013	28.88805	2.315267
3	20	882.3144	97.24416	36.15359	1.491997
4	0	631.1619	8.515054	17.8849	0.076897
4	8	854.5995	88.0381	24.92512	5.446664
4	20	403.2621	139.5183	16.79932	7.735789
5	0	711.2566	63.82455	29.73317	1.76666
5	8	1243.406	587.3517	31.62962	0.222833
5	20	945.6789	111.0567	40.671	4.732679
6	0	1553.241	131.4114	10.35436	0.528532
6	20	1265.051	98.45955	24.24999	2.148161

Table B7. ICP data from Mehlich soil extractions

	year	rep	trt	depth	weight soil	Ca	Ca	Ca	P	P
				cm	g	µg/ml	-blank	ug/g soil	µg/ml	-blank
1	2003	3	0	0-5	2.607	15.660	14.122	135.424	0.897	0.466
2	2003	3	0	5-10	2.569	29.850	28.312	275.516	0.300	-0.131
3	2003	3	0	10-20	2.504	4.900	3.362	33.566	0.170	-0.262
4	2003	3	0	20-30	2.513	2.783	1.245	12.386	0.101	-0.330
5	2003	3	20	0-5	2.516	31.060	29.522	293.343	1.753	1.322
6	2003	3	20	5-10	2.521	14.140	12.602	124.970	0.308	-0.123
7	2003	3	20	10-20	2.527	4.432	2.894	28.631	0.127	-0.304

8	2003	3	20	20-30	2.511	2.048	0.510	5.078	0.116	-0.315
9	2003	2	0	0-5	2.530	17.300	15.762	155.751	1.617	1.186
10	2003	2	0	5-10	2.512	9.631	8.093	80.543	0.387	-0.044
11	2003	2	0	10-20	2.598	4.244	2.706	26.039	0.190	-0.241
12	2003	2	0	20-30	2.499	2.590	1.052	10.524	0.112	-0.319
13	2003	2	20	0-5	2.610	40.680	39.142	374.923	2.497	2.066
14	2003	2	20	5-10	2.487	29.890	28.352	285.002	0.834	0.403
15	2003	2	20	10-20	2.507	4.231	2.693	26.855	0.173	-0.258
16	2003	2	20	20-30	2.509	2.277	0.739	7.363	0.118	-0.313
17	2003	1	0	0-5	2.560	11.230	9.692	94.648	2.716	2.285
18	2003	1	0	5-10	2.513	8.941	7.403	73.647	0.480	0.049
19	2003	1	0	10-20	2.495	8.911	7.373	73.878	0.173	-0.258
20	2003	1	0	20-30	2.536	2.585	1.047	10.321	0.145	-0.286
21	2003	1	20	0-5	2.601	22.150	20.612	198.116	1.719	1.288
22	2003	1	20	5-10	2.513	14.150	12.612	125.468	0.344	-0.087
23	2003	1	20	10-20	2.537	6.878	5.340	52.621	0.287	-0.144
24	2003	1	20	20-30	2.513	2.497	0.959	9.540	0.058	-0.373
25	2004	3	0	0-5	2.510	6.563	5.025	50.050	0.686	0.255
26	2004	3	0	5-10	2.533	8.517	6.979	68.881	0.366	-0.065
27	2004	3	0	10-20	2.506	10.670	9.132	91.101	0.239	-0.192
28	2004	3	0	20-30	2.533	3.210	1.672	16.502	0.021	-0.410
29	2004	3	20	0-5	2.505	9.427	7.889	78.733	0.411	-0.020
30	2004	3	20	5-10	2.606	22.560	21.022	201.669	0.294	-0.138
31	2004	3	20	10-20	2.554	12.750	11.212	109.749	0.081	-0.350
32	2004	3	20	20-30	2.600	12.770	11.232	108.000	0.037	-0.394
33	2004	2	0	0-5	2.539	15.590	14.052	138.362	1.979	1.548
34	2004	2	0	5-10	2.502	12.490	10.952	109.432	0.466	0.035
35	2004	2	0	10-20	2.518	13.410	11.872	117.871	0.408	-0.023
36	2004	2	0	20-30	2.541	4.882	3.344	32.900	0.167	-0.264
37	2004	2	20	0-5	2.500	27.050	25.512	255.120	2.196	1.765
38	2004	2	20	5-10	2.505	26.290	24.752	247.026	0.239	-0.193
39	2004	2	20	10-20	2.552	29.960	28.422	278.429	0.143	-0.288
40	2004	2	20	20-30	2.602	10.670	9.132	87.740	0.125	-0.306
41	2004	1	0	0-5	2.581	12.320	10.782	104.436	0.829	0.398
42	2004	1	0	5-10	2.527	17.900	16.362	161.872	0.361	-0.070
43	2004	1	0	10-20	2.507	10.500	8.962	89.370	0.238	-0.193
	year	rep	trt	depth	weight soil	Ca	Ca	Ca	P	P
				cm	g	µg/ml	-blank	ug/g soil	µg/ml	-blank
44	2004	1	0	20-30	2.501	7.912	6.374	63.715	0.039	-0.392
45	2004	1	20	0-5	2.530	27.430	25.892	255.850	1.173	0.742
46	2004	1	20	5-10	5.005	36.440	34.902	348.671	0.332	-0.099
47	2004	1	20	10-20	2.516	11.080	9.542	94.813	0.146	-0.285
48	2004	1	20	20-30	2.501	2.564	1.026	10.256	0.062	-0.369
49	2006	3	0	0-5	2.512	8.525	6.987	69.536	11.760	11.329
50	2006	3	0	5-10	2.509	5.948	4.410	43.942	2.849	2.418
51	2006	3	0	20-30	2.537	3.062	1.524	15.018	0.318	-0.113
52	2006	3	0	10-20	2.511	2.629	1.091	10.862	0.012	-0.419

53	2006	3	8	0-5	2.558	10.640	9.102	88.956	2.610	2.179
54	2006	3	8	5-10	2.520	10.080	8.542	84.742	0.853	0.422
55	2006	3	8	10-20	2.501	7.306	5.768	57.657	0.206	-0.226
56	2006	3	8	20-30	2.520	3.791	2.253	22.351	0.055	-0.377
57	2006	3	20	0-5	5.012	13.900	12.362	123.324	2.268	1.837
58	2006	3	20	5-10	2.504	11.810	10.272	102.556	1.106	0.675
59	2006	3	20	10-20	2.540	9.734	8.196	80.669	0.198	-0.234
60	2006	3	20	20-30	2.514	4.003	2.465	24.513	0.019	-0.412
61	2006	2	0	0-5	2.515	20.230	18.692	185.805	2.543	2.112
62	2006	2	0	5-10	2.510	20.710	19.172	190.956	0.786	0.355
63	2006	2	0	10-20	2.537	6.351	4.813	47.428	0.433	0.002
64	2006	2	0	20-30	2.545	2.357	0.819	8.045	0.022	-0.409
65	2006	2	8	0-5	2.528	11.080	9.542	94.363	5.685	5.254
66	2006	2	8	5-10	2.567	26.450	24.912	242.618	1.916	1.485
67	2006	2	8	10-20	2.526	11.960	10.422	103.147	0.311	-0.120
68	2006	2	8	20-30	2.531	3.178	1.640	16.199	0.040	-0.391
69	2006	2	20	0-5	2.510	18.500	16.962	168.944	4.481	4.050
70	2006	2	20	5-10	2.518	33.420	31.882	316.541	1.549	1.118
71	2006	2	20	10-20	2.504	18.800	17.262	172.344	0.465	0.034
72	2006	2	20	20-30	2.548	4.790	3.252	31.907	0.063	-0.368
73	2006	1	0	0-5	2.557	11.250	9.712	94.955	1.719	1.288
74	2006	1	0	5-10	2.510	14.270	12.732	126.813	0.834	0.403
75	2006	1	0	10-20	5.042	7.140	5.602	27.777	0.305	-0.126
76	2006	1	0	20-30	2.541	3.283	1.745	17.168	0.039	-0.392
77	2006	1	20	0-5	2.520	12.340	10.802	107.163	2.794	2.363
78	2006	1	20	5-10	2.506	23.740	22.202	221.488	1.401	0.970
79	2006	1	20	10-20	2.508	14.240	12.702	126.615	0.393	-0.038
80	2006	1	20	20-30	2.556	3.270	1.732	16.941	0.068	-0.363
81	2006	1	8	0-5	2.550	4.674	3.136	30.745	0.732	0.301
82	2006	1	8	5-10	2.554	8.065	6.527	63.890	0.523	0.092
83	2006	1	8	10-20	2.550	11.570	10.032	98.353	0.205	-0.226
84	2006	1	8	20-30	2.566	4.751	3.213	31.304	0.007	-0.425
						Ca			P	
				BLANK		2.850			1.294	
				BLANK		1.035			0.000	
				BLANK		0.728			0.000	
				BLANK MEAN		1.538			0.431	

	P	Mg	Mg	Mg	K	K	K	Na
	ug/g soil	µg/ml	-blank	ug/g soil	µg/ml	-blank	ug/g soil	µg/ml
1	4.465	6.544	6.164	59.110	5.826	2.768	26.544	3.781
2	-1.271	10.300	9.920	96.536	2.726	-0.332	-3.231	3.860
3	-2.611	2.267	1.887	18.840	2.070	-0.988	-9.864	3.674
4	-3.286	1.305	0.925	9.202	1.645	-1.413	-14.057	3.345
5	13.136	10.340	9.960	98.967	7.073	4.015	39.895	4.124
6	-1.222	5.339	4.959	49.177	2.874	-0.184	-1.825	3.338

7	-3.009	1.828	1.448	14.325	1.960	-1.098	-10.863	3.291
8	-3.138	0.923	0.543	5.409	1.870	-1.188	-11.828	3.167
9	11.719	6.747	6.367	62.915	5.295	2.237	22.105	3.730
10	-0.435	3.833	3.453	34.365	2.854	-0.204	-2.030	2.913
11	-2.317	1.876	1.496	14.396	2.214	-0.844	-8.122	3.159
12	-3.188	0.891	0.511	5.115	1.674	-1.384	-13.846	4.816
13	19.789	12.110	11.730	112.356	8.920	5.862	56.149	4.178
14	4.050	9.293	8.913	89.596	4.260	1.202	12.083	3.402
15	-2.570	1.702	1.322	13.183	2.291	-0.767	-7.649	3.786
16	-3.116	0.736	0.356	3.543	1.788	-1.270	-12.654	5.291
17	22.314	5.436	5.056	49.375	7.253	4.195	40.967	3.357
18	0.487	3.548	3.168	31.516	3.699	0.641	6.377	2.804
19	-2.589	3.576	3.196	32.024	2.206	-0.852	-8.537	3.498
20	-2.823	1.081	0.701	6.910	1.689	-1.369	-13.496	3.125
21	12.380	7.624	7.244	69.627	10.210	7.152	68.743	3.542
22	-0.866	5.581	5.201	51.741	5.685	2.627	26.134	3.386
23	-1.422	2.943	2.563	25.256	3.045	-0.013	-0.128	3.404
24	-3.714	1.140	0.760	7.561	2.194	-0.864	-8.595	4.176
25	2.544	3.903	3.523	35.090	5.847	2.789	27.779	5.694
26	-0.639	3.301	2.921	28.829	3.337	0.279	2.754	4.717
27	-1.911	3.906	3.526	35.176	2.700	-0.358	-3.571	4.634
28	-4.050	1.721	1.341	13.235	1.913	-1.145	-11.301	4.871
29	-0.199	3.850	3.470	34.631	7.687	4.629	46.198	4.054
30	-1.319	7.515	7.135	68.448	4.240	1.182	11.339	4.574
31	-3.424	5.016	4.636	45.380	2.220	-0.838	-8.203	5.682
32	-3.792	5.186	4.806	46.212	1.947	-1.111	-10.683	5.442
33	15.242	8.198	7.818	76.979	11.890	8.832	86.963	4.821
34	0.350	4.941	4.561	45.574	5.535	2.477	24.750	6.096
35	-0.228	4.282	3.902	38.741	3.871	0.813	8.072	4.869
36	-2.593	1.826	1.446	14.227	2.576	-0.482	-4.742	5.743
37	17.650	9.847	9.467	94.670	6.494	3.436	34.360	5.334
38	-1.921	8.575	8.195	81.786	3.557	0.499	4.980	5.302
39	-2.823	10.640	10.260	100.509	2.339	-0.719	-7.043	6.480
40	-2.939	4.654	4.274	41.065	2.059	-0.999	-9.598	4.812
41	3.854	6.340	5.960	57.730	6.438	3.380	32.739	4.598
42	-0.689	6.636	6.256	61.892	4.842	1.784	17.649	4.267
	P	Mg	Mg	Mg	K	K	K	Na
	ug/g soil	µg/ml	-blank	ug/g soil	µg/ml	-blank	ug/g soil	µg/ml
43	-1.922	4.010	3.630	36.199	2.904	-0.154	-1.536	4.805
44	-3.915	3.640	3.260	32.587	2.582	-0.476	-4.758	4.660
45	7.332	10.710	10.330	102.075	8.233	5.175	51.136	4.865
46	-0.990	12.920	12.540	125.275	4.814	1.756	17.542	4.858
47	-2.835	5.450	5.070	50.378	2.531	-0.527	-5.236	4.701
48	-3.687	1.435	1.055	10.546	1.639	-1.419	-14.184	4.964
49	112.749	6.621	6.241	62.112	10.450	7.392	73.567	5.344
50	24.093	3.594	3.214	32.025	7.505	4.447	44.310	5.392
51	-1.113	1.448	1.068	10.524	6.166	3.108	30.627	4.942

52	-4.176	1.206	0.826	8.224	3.880	0.822	8.184	5.101
53	21.296	5.576	5.196	50.782	10.440	7.382	72.146	4.993
54	4.188	3.924	3.544	35.159	9.514	6.456	64.048	4.841
55	-2.254	2.946	2.566	25.650	5.128	2.070	20.692	4.979
56	-3.735	1.621	1.241	12.312	3.682	0.624	6.190	4.831
57	18.326	4.762	4.382	43.715	6.098	3.040	30.327	5.958
58	6.739	4.256	3.876	38.698	4.053	0.995	9.934	5.279
59	-2.298	3.823	3.443	33.888	3.570	0.512	5.039	5.161
60	-4.099	1.801	1.421	14.131	3.200	0.142	1.412	5.705
61	20.994	6.602	6.222	61.849	6.779	3.721	36.988	5.912
62	3.535	6.583	6.203	61.783	4.592	1.534	15.279	5.343
63	0.018	2.651	2.271	22.379	3.446	0.388	3.823	4.900
64	-4.022	1.129	0.749	7.358	1.941	-1.117	-10.972	5.078
65	51.958	5.016	4.636	45.847	10.380	7.322	72.409	6.032
66	14.462	7.747	7.367	71.747	7.169	4.111	40.037	5.604
67	-1.188	3.968	3.588	35.511	4.821	1.763	17.449	5.321
68	-3.863	1.365	0.985	9.729	3.072	0.014	0.138	5.311
69	40.339	7.684	7.304	72.749	7.004	3.946	39.303	4.926
70	11.100	11.780	11.400	113.185	4.579	1.521	15.101	5.902
71	0.336	6.758	6.378	63.678	3.721	0.663	6.619	4.805
72	-3.613	1.864	1.484	14.560	3.369	0.311	3.051	5.113
73	12.593	4.491	4.111	40.194	8.246	5.188	50.724	5.372
74	4.011	4.410	4.030	40.139	7.005	3.947	39.313	6.460
75	-0.624	2.587	2.207	10.943	5.414	2.356	11.682	5.649
76	-3.855	1.350	0.970	9.543	2.699	-0.359	-3.532	5.664
77	23.442	5.350	4.970	49.306	10.630	7.572	75.119	5.674
78	9.677	6.830	6.450	64.346	7.315	4.257	42.468	5.484
79	-0.379	4.540	4.160	41.467	5.498	2.440	24.322	5.214
80	-3.549	1.358	0.978	9.566	2.799	-0.259	-2.533	5.057
81	2.947	2.088	1.708	16.745	6.147	3.089	30.284	4.890
82	0.896	3.141	2.761	27.026	4.390	1.332	13.038	5.288
83	-2.217	4.136	3.756	36.824	2.675	-0.383	-3.755	4.665
84	-4.136	2.160	1.780	17.342	1.925	-1.133	-11.039	5.251
		Mg			K			Na
BLANK		0.464			3.001			12.400
BLANK		0.349			3.163			12.520
BLANK		0.328			3.009			12.100
BLANK MEAN		0.380			3.058			12.340

	Na	Na	Fe	Fe	Fe	Zn	Zn	Zn
	-blank	ug/g soil	µg/ml	-blank	ug/g soil	µg/ml	-blank	ug/g soil
1	-8.559	-82.077	12.990	11.169	107.106	0.175	0.096	0.923
2	-8.480	-82.522	10.130	8.309	80.858	0.101	0.022	0.211
3	-8.666	-86.522	8.793	6.972	69.609	0.061	-0.018	-0.183
4	-8.995	-89.485	6.910	5.089	50.627	0.062	-0.017	-0.170

5	-8.216	-81.638	12.670	10.849	107.800	0.290	0.211	2.098
6	-9.002	-89.270	10.610	8.789	87.158	0.105	0.026	0.258
7	-9.049	-89.523	7.036	5.215	51.593	0.081	0.002	0.024
8	-9.173	-91.328	6.183	4.362	43.429	0.060	-0.019	-0.188
9	-8.610	-85.079	14.430	12.609	124.595	0.435	0.356	3.520
10	-9.427	-93.820	13.220	11.399	113.445	0.231	0.152	1.509
11	-9.181	-88.347	10.480	8.659	83.324	0.490	0.411	3.953
12	-7.524	-75.270	7.655	5.834	58.363	0.474	0.395	3.947
13	-8.162	-78.180	7.235	5.414	51.858	0.443	0.364	3.487
14	-8.938	-89.847	6.105	4.284	43.064	0.145	0.066	0.658
15	-8.554	-85.301	5.380	3.559	35.491	0.143	0.064	0.633
16	-7.049	-70.237	5.237	3.416	34.037	0.240	0.161	1.608
17	-8.983	-87.725	12.330	10.509	102.627	0.151	0.072	0.701
18	-9.536	-94.867	12.300	10.479	104.248	0.079	0.000	0.002
19	-8.842	-88.597	7.411	5.590	56.012	0.087	0.007	0.075
20	-9.215	-90.842	5.382	3.561	35.104	0.082	0.003	0.032
21	-8.798	-84.564	11.990	10.169	97.741	0.265	0.186	1.791
22	-8.954	-89.077	9.911	8.090	80.481	0.097	0.018	0.179
23	-8.936	-88.057	7.509	5.688	56.050	0.147	0.068	0.669
24	-8.164	-81.218	5.959	4.138	41.166	0.247	0.168	1.673
25	-6.646	-66.195	10.210	8.389	83.556	1.707	1.628	16.215
26	-7.623	-75.237	11.330	9.509	93.851	0.082	0.003	0.030
27	-7.706	-76.875	9.139	7.318	73.005	0.120	0.041	0.408
28	-7.469	-73.717	6.008	4.187	41.325	0.047	-0.032	-0.316
29	-8.286	-82.695	10.010	8.189	81.727	0.095	0.016	0.162
30	-7.766	-74.501	9.370	7.549	72.419	0.065	-0.014	-0.136
31	-6.658	-65.172	7.490	5.669	55.491	0.049	-0.030	-0.294
32	-6.898	-66.327	6.136	4.315	41.490	0.065	-0.014	-0.133
33	-7.519	-74.035	14.690	12.869	126.713	0.399	0.320	3.154
34	-6.244	-62.390	14.600	12.779	127.688	0.094	0.015	0.150
35	-7.471	-74.176	15.730	13.909	138.096	0.058	-0.021	-0.209
36	-6.597	-64.906	9.787	7.966	78.375	0.082	0.003	0.030
37	-7.006	-70.060	7.735	5.914	59.140	0.302	0.223	2.229
38	-7.038	-70.240	5.843	4.022	40.140	0.102	0.023	0.230
39	-5.860	-57.406	5.676	3.855	37.764	0.081	0.002	0.018
40	-7.528	-72.329	4.145	2.324	22.329	0.062	-0.017	-0.164
	Na	Na	Fe	Fe	Fe	Zn	Zn	Zn
	-blank	ug/g soil	µg/ml	-blank	ug/g soil	µg/ml	-blank	ug/g soil
41	-7.742	-74.990	12.220	10.399	100.726	0.249	0.170	1.646
42	-8.073	-79.867	10.510	8.689	85.962	0.101	0.022	0.214
43	-7.535	-75.140	9.045	7.224	72.038	0.098	0.019	0.192
44	-7.680	-76.769	6.133	4.312	43.103	0.079	0.000	0.004
45	-7.475	-73.864	10.360	8.539	84.377	0.442	0.363	3.586
46	-7.482	-74.745	8.251	6.430	64.236	0.110	0.031	0.305
47	-7.639	-75.904	8.025	6.204	61.645	0.060	-0.019	-0.190
48	-7.376	-73.731	4.688	2.867	28.659	0.070	-0.009	-0.092
49	-6.996	-69.626	14.150	12.329	122.701	0.610	0.531	5.289

50	-6.948	-69.231	10.190	8.369	83.390	0.109	0.030	0.302
51	-7.398	-72.901	6.956	5.135	50.601	0.117	0.038	0.375
52	-7.239	-72.073	4.786	2.965	29.520	0.069	-0.010	-0.104
53	-7.347	-71.804	14.310	12.489	122.058	0.589	0.510	4.982
54	-7.499	-74.395	10.850	9.029	89.573	0.171	0.092	0.917
55	-7.361	-73.581	7.346	5.525	55.228	0.093	0.014	0.141
56	-7.509	-74.494	5.136	3.315	32.887	0.075	-0.004	-0.044
57	-6.382	-63.667	11.290	9.469	94.463	1.011	0.932	9.298
58	-7.061	-70.497	9.932	8.111	80.980	0.544	0.465	4.640
59	-7.179	-70.659	8.171	6.350	62.500	0.135	0.056	0.551
60	-6.635	-65.981	5.256	3.435	34.159	0.083	0.004	0.037
61	-6.428	-63.897	16.570	14.749	146.610	0.936	0.857	8.521
62	-6.997	-69.691	14.320	12.499	124.492	0.187	0.108	1.074
63	-7.440	-73.315	9.422	7.601	74.901	0.103	0.024	0.240
64	-7.262	-71.336	6.166	4.345	42.682	0.083	0.004	0.041
65	-6.308	-62.381	14.260	12.439	123.012	0.598	0.519	5.136
66	-6.736	-65.602	11.220	9.399	91.537	0.388	0.309	3.009
67	-7.019	-69.468	8.182	6.361	62.955	0.123	0.044	0.434
68	-7.029	-69.429	4.895	3.074	30.363	0.061	-0.018	-0.175
69	-7.414	-73.845	9.310	7.489	74.592	1.181	1.102	10.976
70	-6.438	-63.920	7.175	5.354	53.157	0.381	0.302	2.996
71	-7.535	-75.230	4.552	2.731	27.266	0.110	0.031	0.313
72	-7.227	-70.909	3.942	2.121	20.810	0.069	-0.010	-0.099
73	-6.968	-68.127	12.850	11.029	107.831	0.315	0.236	2.306
74	-5.880	-58.566	12.300	10.479	104.373	0.156	0.077	0.763
75	-6.691	-33.176	8.790	6.969	34.555	0.066	-0.013	-0.066
76	-6.676	-65.683	4.691	2.870	28.237	0.074	-0.005	-0.047
77	-6.666	-66.131	14.740	12.919	128.165	0.471	0.392	3.890
78	-6.856	-68.396	11.960	10.139	101.147	0.271	0.192	1.919
79	-7.126	-71.033	11.050	9.229	91.996	0.119	0.040	0.400
80	-7.283	-71.234	6.018	4.197	41.050	0.067	-0.012	-0.116
81	-7.450	-73.039	10.890	9.069	88.912	0.166	0.087	0.851
82	-7.052	-69.029	12.600	10.779	105.511	0.154	0.075	0.731
83	-7.675	-75.245	8.699	6.878	67.431	0.114	0.035	0.338
84	-7.089	-69.067	5.630	3.809	37.110	0.077	-0.002	-0.017
			Fe			Zn		
BLANK			1.981			0.085		
BLANK			1.765			0.108		
BLANK			1.716			0.045		
BLANK MEAN			1.821			0.079		

	Cu	Cu	Cu	Mn	Mn	Mn	Mo	Mo
	µg/ml	-blank	ug/g soil	µg/ml	-blank	ug/g soil	µg/ml	-blank
1	0.104	0.019	0.180	0.088	0.088	0.848	0.000	0.000
2	0.140	0.055	0.539	0.094	0.094	0.911	0.000	0.000
3	0.067	-0.018	-0.180	0.032	0.032	0.320	0.002	0.002

4	0.068	-0.017	-0.172	0.024	0.024	0.237	0.001	0.001
5	0.142	0.057	0.569	0.467	0.467	4.644	0.003	0.003
6	0.094	0.009	0.092	0.074	0.074	0.733	0.004	0.004
7	0.098	0.013	0.131	0.033	0.033	0.324	0.000	0.000
8	0.067	-0.018	-0.175	0.022	0.022	0.218	0.000	0.000
9	0.063	-0.022	-0.220	0.115	0.115	1.136	0.000	0.000
10	0.079	-0.007	-0.065	0.067	0.067	0.671	0.000	0.000
11	0.074	-0.011	-0.107	0.036	0.036	0.343	0.004	0.004
12	0.051	-0.034	-0.339	0.018	0.018	0.177	0.003	0.003
13	0.179	0.094	0.901	0.340	0.340	3.254	0.000	0.000
14	0.100	0.015	0.148	0.170	0.170	1.706	0.003	0.003
15	0.059	-0.027	-0.264	0.048	0.048	0.476	0.002	0.002
16	0.085	-0.001	-0.005	0.048	0.048	0.475	0.000	0.000
17	0.071	-0.014	-0.134	0.084	0.084	0.821	0.000	0.000
18	0.096	0.011	0.112	0.067	0.067	0.671	0.001	0.001
19	0.095	0.010	0.104	0.031	0.031	0.314	0.000	0.000
20	0.063	-0.022	-0.218	0.005	0.005	0.050	0.002	0.002
21	0.231	0.146	1.407	0.430	0.430	4.135	0.000	0.000
22	0.078	-0.008	-0.075	0.133	0.133	1.323	0.005	0.005
23	0.088	0.003	0.032	0.034	0.034	0.339	0.000	0.000
24	0.082	-0.003	-0.031	0.017	0.017	0.170	0.003	0.003
25	0.160	0.075	0.747	0.089	0.089	0.884	0.000	0.000
26	0.084	-0.001	-0.010	0.108	0.108	1.070	0.000	0.000
27	0.200	0.115	1.149	0.074	0.074	0.736	0.002	0.002
28	0.086	0.001	0.009	0.005	0.005	0.051	0.004	0.004
29	0.113	0.028	0.281	0.188	0.188	1.879	0.006	0.006
30	0.073	-0.012	-0.112	0.281	0.281	2.692	0.002	0.002
31	0.077	-0.008	-0.080	0.037	0.037	0.362	0.000	0.000
32	0.100	0.015	0.145	0.033	0.033	0.313	0.000	0.000
33	0.106	0.021	0.206	0.201	0.201	1.977	0.001	0.001
34	0.091	0.006	0.058	0.091	0.091	0.909	0.001	0.001
35	0.078	-0.007	-0.071	0.075	0.075	0.747	0.000	0.000
36	0.103	0.018	0.175	0.036	0.036	0.350	0.000	0.000
37	0.178	0.093	0.925	0.439	0.439	4.386	0.000	0.000
38	0.147	0.062	0.616	0.235	0.235	2.348	0.003	0.003
39	0.142	0.057	0.555	0.062	0.062	0.607	0.000	0.000
	Cu	Cu	Cu	Mn	Mn	Mn	Mo	Mo
	µg/ml	-blank	ug/g soil	µg/ml	-blank	ug/g soil	µg/ml	-blank
40	0.104	0.019	0.180	0.047	0.047	0.454	0.006	0.006
41	0.175	0.090	0.876	0.144	0.144	1.391	0.002	0.002
42	0.137	0.052	0.510	0.122	0.122	1.205	0.000	0.000
43	0.134	0.049	0.491	0.065	0.065	0.643	0.000	0.000
44	0.122	0.037	0.365	0.025	0.025	0.247	0.000	0.000
45	0.194	0.109	1.081	0.393	0.393	3.879	0.000	0.000
46	0.102	0.017	0.166	0.246	0.246	2.462	0.000	0.000
47	0.107	0.022	0.216	0.030	0.030	0.298	0.001	0.001
48	0.101	0.016	0.164	0.000	0.000	0.000	0.004	0.004

49	0.284	0.199	1.980	0.139	0.139	1.386	0.000	0.000
50	0.117	0.032	0.323	0.060	0.060	0.595	0.004	0.004
51	0.116	0.031	0.303	0.006	0.006	0.057	0.005	0.005
52	0.102	0.017	0.166	0.000	0.000	0.000	0.000	0.000
53	0.252	0.167	1.632	0.173	0.173	1.688	0.003	0.003
54	0.198	0.113	1.117	0.174	0.174	1.729	0.000	0.000
55	0.131	0.046	0.458	0.034	0.034	0.340	0.001	0.001
56	0.147	0.062	0.614	0.000	0.000	0.000	0.000	0.000
57	0.186	0.101	1.010	0.326	0.326	3.252	0.003	0.003
58	0.182	0.097	0.969	0.188	0.188	1.874	0.001	0.001
59	0.106	0.021	0.208	0.058	0.058	0.574	0.003	0.003
60	0.117	0.032	0.318	0.007	0.007	0.065	0.003	0.003
61	0.245	0.160	1.585	0.166	0.166	1.652	0.002	0.002
62	0.174	0.089	0.889	0.098	0.098	0.973	0.004	0.004
63	0.126	0.041	0.406	0.017	0.017	0.171	0.000	0.000
64	0.133	0.048	0.471	0.000	0.000	0.000	0.005	0.005
65	0.215	0.130	1.288	0.185	0.185	1.830	0.003	0.003
66	0.193	0.108	1.049	0.189	0.189	1.836	0.001	0.001
67	0.145	0.060	0.593	0.012	0.012	0.118	0.001	0.001
68	0.121	0.036	0.359	0.000	0.000	0.000	0.001	0.001
69	0.274	0.189	1.886	0.419	0.419	4.173	0.006	0.006
70	0.169	0.084	0.833	0.332	0.332	3.291	0.000	0.000
71	0.158	0.073	0.724	0.038	0.038	0.375	0.002	0.002
72	0.123	0.038	0.371	0.007	0.007	0.069	0.002	0.002
73	0.162	0.077	0.757	0.095	0.095	0.932	0.001	0.001
74	0.137	0.052	0.514	0.109	0.109	1.088	0.000	0.000
75	0.098	0.013	0.065	0.043	0.043	0.211	0.000	0.000
76	0.138	0.053	0.521	0.000	0.000	0.000	0.003	0.003
77	0.184	0.099	0.982	0.330	0.330	3.272	0.000	0.000
78	0.181	0.096	0.953	0.241	0.241	2.403	0.000	0.000
79	0.171	0.086	0.857	0.100	0.100	0.995	0.000	0.000
80	0.148	0.063	0.619	0.000	0.000	0.000	0.000	0.000
81	0.159	0.074	0.727	0.085	0.085	0.835	0.000	0.000
82	0.154	0.069	0.673	0.156	0.156	1.528	0.001	0.001
83	0.173	0.088	0.860	0.071	0.071	0.692	0.001	0.001
84	0.143	0.058	0.566	0.000	0.000	0.000	0.002	0.002
	Cu			Mn			Mo	
BLANK	0.036			0.000			0.002	
BLANK	0.131			0.000			0.000	
BLANK	0.088			0.000			0.000	
BLANK MEAN	0.085			0.000			0.001	

	Mo	Al	Al	Al	S	S	S
	ug/g soil	ug/ml	-blank	ug/g soil	ug/ml	-blank	ug/g soil
1	0.001	154.600	148.260	1421.749	1.284	1.104	10.587

2	0.000	137.500	131.160	1276.372	1.287	1.107	10.773
3	0.018	154.200	147.860	1476.238	1.394	1.214	12.121
4	0.006	148.000	141.660	1409.272	0.926	0.746	7.421
5	0.028	139.200	132.860	1320.151	1.212	1.032	10.254
6	0.041	144.400	138.060	1369.100	1.211	1.031	10.224
7	0.000	144.400	138.060	1365.849	1.076	0.896	8.864
8	0.000	150.900	144.560	1439.267	1.139	0.959	9.548
9	0.000	147.800	141.460	1397.826	1.330	1.150	11.364
10	0.000	155.000	148.660	1479.498	1.305	1.125	11.196
11	0.038	155.300	148.960	1433.410	1.114	0.934	8.988
12	0.029	154.200	147.860	1479.192	0.936	0.756	7.564
13	0.000	123.000	116.660	1117.433	1.251	1.071	10.259
14	0.025	123.600	117.260	1178.729	1.315	1.135	11.409
15	0.018	135.000	128.660	1283.008	1.574	1.394	13.901
16	0.003	141.200	134.860	1343.762	0.912	0.732	7.289
17	0.000	142.500	136.160	1329.688	1.287	1.107	10.811
18	0.012	149.100	142.760	1420.215	1.414	1.234	12.276
19	0.000	141.300	134.960	1352.305	1.074	0.894	8.958
20	0.018	146.900	140.560	1385.647	0.974	0.794	7.831
21	0.001	143.300	136.960	1316.417	1.155	0.975	9.371
22	0.049	142.000	135.660	1349.582	1.292	1.112	11.062
23	0.000	147.000	140.660	1386.086	1.039	0.859	8.465
24	0.034	146.000	139.660	1389.375	0.911	0.731	7.273
25	0.000	138.500	132.160	1316.335	1.302	1.122	11.175
26	0.000	140.800	134.460	1327.083	1.261	1.081	10.669
27	0.017	133.800	127.460	1271.548	1.096	0.916	9.138
28	0.035	142.100	135.760	1339.913	0.896	0.716	7.063
29	0.064	141.100	134.760	1344.910	1.195	1.015	10.130
30	0.022	138.900	132.560	1271.681	0.965	0.785	7.526
31	0.000	138.500	132.160	1293.657	0.854	0.674	6.596
32	0.000	139.600	133.260	1281.346	0.888	0.708	6.804
33	0.011	138.700	132.360	1303.269	2.100	1.920	18.905
34	0.007	143.000	136.660	1365.508	1.470	1.290	12.890
35	0.000	141.100	134.760	1337.967	1.241	1.061	10.534
36	0.000	138.800	132.460	1303.227	1.271	1.091	10.734
37	0.002	124.400	118.060	1180.600	1.944	1.764	17.640
	Mo	Al	Al	Al	S	S	S
	ug/g soil	µg/ml	-blank	ug/g soil	µg/ml	-blank	ug/g soil
38	0.025	119.000	112.660	1124.351	1.675	1.495	14.920
39	0.000	118.400	112.060	1097.766	1.238	1.058	10.364
40	0.061	128.500	122.160	1173.713	1.108	0.928	8.916
41	0.020	139.800	133.460	1292.716	1.452	1.272	12.321
42	0.000	135.600	129.260	1278.789	1.169	0.989	9.784
43	0.001	135.900	129.560	1291.982	1.179	0.999	9.962
44	0.000	130.500	124.160	1241.104	1.295	1.115	11.146
45	0.000	132.800	126.460	1249.605	1.268	1.088	10.751
46	0.000	121.900	115.560	1154.446	0.957	0.777	7.758

47	0.009	136.700	130.360	1295.310	1.454	1.274	12.659
48	0.042	135.400	129.060	1290.084	1.273	1.093	10.926
49	0.000	142.800	136.460	1358.081	1.351	1.171	11.654
50	0.043	144.400	138.060	1375.648	1.639	1.459	14.538
51	0.045	145.000	138.660	1366.378	2.078	1.898	18.703
52	0.000	146.300	139.960	1393.469	2.235	2.055	20.460
53	0.025	149.900	143.560	1403.049	1.430	1.250	12.217
54	0.000	145.900	139.560	1384.524	1.173	0.993	9.851
55	0.009	146.300	139.960	1399.040	1.443	1.263	12.625
56	0.000	144.800	138.460	1373.611	1.960	1.780	17.659
57	0.029	136.000	129.660	1293.496	1.273	1.093	10.904
58	0.008	138.300	131.960	1317.492	1.228	1.048	10.463
59	0.031	138.300	131.960	1298.819	1.747	1.567	15.423
60	0.029	135.500	129.160	1284.407	3.832	3.652	36.317
61	0.016	141.900	135.560	1347.515	1.376	1.196	11.889
62	0.040	143.900	137.560	1370.120	1.336	1.156	11.514
63	0.000	141.900	135.560	1335.830	1.658	1.478	14.564
64	0.048	136.300	129.960	1276.621	0.904	0.724	7.114
65	0.034	139.600	133.260	1317.840	1.298	1.118	11.056
66	0.009	131.800	125.460	1221.854	1.105	0.925	9.009
67	0.005	136.700	130.360	1290.182	1.878	1.698	16.805
68	0.006	137.700	131.360	1297.511	2.767	2.587	25.553
69	0.056	125.500	119.160	1186.853	1.287	1.107	11.026
70	0.000	116.600	110.260	1094.718	1.005	0.825	8.191
71	0.020	123.500	117.160	1169.728	1.398	1.218	12.161
72	0.024	135.900	129.560	1271.193	4.750	4.570	44.839
73	0.010	138.900	132.560	1296.050	1.558	1.378	13.473
74	0.000	139.700	133.360	1328.287	1.548	1.368	13.625
75	0.001	131.500	125.160	620.587	1.505	1.325	6.570
76	0.025	136.700	130.360	1282.566	1.681	1.501	14.768
77	0.003	147.400	141.060	1399.405	1.285	1.105	10.962
78	0.004	136.900	130.560	1302.474	1.072	0.892	8.899
79	0.000	141.400	135.060	1346.292	1.493	1.313	13.088
80	0.000	140.900	134.560	1316.119	4.151	3.971	38.840
81	0.000	144.400	138.060	1353.529	1.667	1.487	14.578
82	0.013	149.100	142.760	1397.416	1.533	1.353	13.244
	Mo	Al	Al	Al	S	S	S
	ug/g soil	µg/ml	-blank	ug/g soil	µg/ml	-blank	ug/g soil
83	0.005	140.300	133.960	1313.333	1.530	1.350	13.235
84	0.016	142.800	136.460	1329.501	1.961	1.781	17.352
		Al			S		
BLANK		6.541			0.183		
BLANK		6.308			0.189		
BLANK		6.170			0.168		
BLANK MEAN		6.340			0.180		

	Sr	Sr	Sr
	µg/ml	-blank	ug/g soil
1	0.058	0.011	0.106
2	0.083	0.036	0.345
3	0.022	-0.025	-0.253
4	0.013	-0.034	-0.336
5	0.122	0.075	0.740
6	0.045	-0.002	-0.024
7	0.019	-0.028	-0.277
8	0.012	-0.035	-0.348
9	0.068	0.021	0.209
10	0.039	-0.008	-0.078
11	0.024	-0.023	-0.221
12	0.023	-0.024	-0.241
13	0.143	0.096	0.916
14	0.095	0.048	0.479
15	0.023	-0.024	-0.236
16	0.022	-0.025	-0.246
17	0.045	-0.002	-0.021
18	0.032	-0.015	-0.146
19	0.033	-0.014	-0.140
20	0.017	-0.030	-0.295
21	0.101	0.054	0.521
22	0.057	0.010	0.098
23	0.028	-0.019	-0.190
24	0.019	-0.028	-0.281
25	0.034	-0.013	-0.132
26	0.039	-0.008	-0.083
27	0.044	-0.003	-0.029
28	0.021	-0.026	-0.257
29	0.044	-0.003	-0.027
30	0.086	0.039	0.371
31	0.045	-0.002	-0.017
32	0.039	-0.008	-0.076
33	0.068	0.021	0.210
34	0.059	0.012	0.115
	Sr	Sr	Sr
	µg/ml	-blank	ug/g soil
35	0.057	0.010	0.099
36	0.030	-0.017	-0.163
37	0.095	0.048	0.482
38	0.091	0.044	0.439
39	0.089	0.042	0.415
40	0.038	-0.009	-0.087
41	0.049	0.002	0.019
42	0.062	0.015	0.146
43	0.042	-0.005	-0.053

44	0.032	-0.015	-0.149
45	0.099	0.052	0.510
46	0.116	0.069	0.693
47	0.039	-0.008	-0.082
48	0.016	-0.031	-0.308
49	0.050	0.003	0.026
50	0.031	-0.016	-0.162
51	0.020	-0.027	-0.266
52	0.018	-0.029	-0.288
53	0.051	0.004	0.042
54	0.050	0.003	0.026
55	0.033	-0.014	-0.138
56	0.020	-0.028	-0.273
57	0.067	0.020	0.196
58	0.059	0.012	0.121
59	0.042	-0.005	-0.049
60	0.023	-0.024	-0.236
61	0.086	0.039	0.384
62	0.078	0.031	0.313
63	0.030	-0.017	-0.169
64	0.017	-0.030	-0.295
65	0.053	0.006	0.062
66	0.099	0.052	0.510
67	0.051	0.004	0.039
68	0.021	-0.026	-0.261
69	0.080	0.033	0.328
70	0.128	0.081	0.805
71	0.068	0.021	0.212
72	0.025	-0.022	-0.219
73	0.043	-0.004	-0.037
74	0.056	0.009	0.086
75	0.032	-0.015	-0.073
76	0.026	-0.021	-0.206
77	0.062	0.015	0.147
78	0.095	0.048	0.477
79	0.054	0.007	0.067
	Sr	Sr	Sr
	µg/ml	-blank	ug/g soil
80	0.020	-0.028	-0.269
81	0.027	-0.020	-0.196
82	0.046	-0.001	-0.014
83	0.052	0.005	0.044
84	0.024	-0.023	-0.226
	Sr		
BLANK	0.050		
BLANK	0.046		
BLANK	0.045		

BLANK MEAN	0.047		
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Table B8. Soil pH.

year	plot	Biochar	depth	KCl pH
2003	7	0	0-5	4.00
2003	7	0	5-10	4.15
2003	7	0	10-20	3.96
2003	7	0	20-30	3.97
2003	9	20	0-5	4.14
2003	9	20	5-10	3.99
2003	9	20	10-20	3.98
2003	9	20	20-30	3.92
2003	10	0	0-5	3.86
2003	10	0	5-10	3.83
2003	10	0	10-20	3.88
2003	10	0	20-30	3.95
2003	12	20	0-5	4.34
2003	12	20	5-10	4.18
2003	12	20	10-20	3.83
2003	12	20	20-30	3.87
2003	25	0	0-5	3.86
2003	25	0	5-10	3.85
2003	25	0	10-20	3.97
2003	25	0	20-30	3.99
2003	26	20	0-5	4.02
2003	26	20	5-10	4.00
2003	26	20	10-20	3.94
2003	26	20	20-30	3.90
2004	7	0	0-5	3.80
2004	7	0	5-10	3.90
2004	7	0	10-20	3.94
2004	7	0	20-30	4.00
2004	9	20	0-5	3.87
2004	9	20	5-10	4.07
2004	9	20	10-20	4.07
2004	9	20	20-30	4.06
2004	10	0	0-5	3.74
2004	10	0	5-10	3.70
2004	10	0	10-20	3.71
2004	10	0	20-30	3.80
2004	12	20	0-5	3.95
2004	12	20	5-10	4.04
2004	12	20	10-20	4.22

2004	12	20	20-30	3.93
2004	25	0	0-5	3.85
2004	25	0	5-10	3.94
2004	25	0	10-20	3.93
2004	25	0	20-30	4.01
2004	26	20	0-5	3.99
2004	26	20	5-10	4.19
2004	26	20	10-20	3.97
2004	26	20	20-30	3.95
2006	7	0	0-5	3.91
2006	7	0	5-10	3.92
2006	7	0	20-30A	4.00
2006	7	0	20-30B	3.96
2006	8	8	0-5	3.89
2006	8	8	5-10	3.91
2006	8	8	10-20	4.03
2006	8	8	20-30	3.97
2006	9	20	0-5	3.88
2006	9	20	5-10	3.95
2006	9	20	10-20	4.03
2006	9	20	20-30	4.03
2006	10	0	0-5	3.78
2006	10	0	5-10	3.83
2006	10	0	10-20	3.86
2006	10	0	20-30	3.94
2006	11	8	0-5	3.86
2006	11	8	5-10	4.04
2006	11	8	10-20	3.98
2006	11	8	20-30	3.91
2006	12	20	0-5	3.86
2006	12	20	5-10	4.18
2006	12	20	10-20	4.07
2006	12	20	20-30	3.90
2006	25	0	0-5	3.89
2006	25	0	5-10	3.91
2006	25	0	10-20	3.93
2006	25	0	20-30	4.06
2006	26	20	0-5	3.77
2006	26	20	5-10	3.97
2006	26	20	10-20	3.91
2006	26	20	20-30	3.90
2006	27	8	0-5	3.87
2006	27	8	5-10	3.85
2006	27	8	10-20	3.97
2006	27	8	20-30	4.01

Table B9. Soil CEC.

year	crop	plot	biochar	amt soil	chart		ug NH4 / ml	ug/g soil	mmol _e /kg soil
					reading				
3	rot	7	0	2.574	0.329		105.103	4083.273	226.849
3	rot	9	20	2.506	0.287		90.621	3616.149	200.897
3	rot	10	0	2.515	0.302		95.793	3808.871	211.604
3	rot	12	20	2.536	0.275		86.483	3410.203	189.456
3	rot	25	0	2.576	0.28		88.207	3424.181	190.232
3	rot	26	20	2.514	0.312		99.241	3947.549	219.308
3	rot	26	20	2.505	0.3		95.103	3796.545	210.919
4	rot	7	0	2.530	0.298		94.414	3731.770	207.321
4	rot	9	20	2.541	0.295		93.379	3674.904	204.161
4	rot	10	0	2.515	0.342		109.586	4357.304	242.072
4	rot	10	0	2.578	0.336		107.517	4170.568	231.698
4	rot	12	20	2.549	0.242		75.103	2946.389	163.688
4	rot	25	0	2.555	0.295		93.379	3654.768	203.043
4	rot	26	20	2.568	0.341		109.241	4253.948	236.330
6	rot	7	0	2.559	0.3		95.103	3716.430	206.468
6	rot	9	20	2.536	0.294		93.034	3668.552	203.808
6	rot	10	0	2.527	0.357		114.759	4541.299	252.294
6	rot	12	20	2.543	0.268		84.069	3305.897	183.661
6	rot	25	0	2.523	0.288		90.966	3605.451	200.303
6	rot	26	20	2.551	0.291		92.000	3606.429	200.357

Table B10. Soil C and N.

year	rep	trt	plot	depth	dry weight (mg)	Micro g N	mg N/g soil	Micro g C	mg C / g soil	Delta Air	Delta PDB
3	1	0	7	15	52.19	46.9	0.899	802.9	15.384	9.91	-11.83
3	1	0	7	2.5	51.52	65.1	1.263	1057.7	20.529	7.26	-12.71
3	1	0	7	25	63.54	48.0	0.756	825.8	12.996	10.37	-11.66
3	1	20	9	7.5	52.39	74.3	1.418	1650.5	31.504	6.42	-18.67
3	1	20	9	15	54.33	39.3	0.723	623.3	11.473	10.44	-11.82
3	1	20	9	2.5	53.19	56.4	1.060	920.7	17.309	8.62	-13.06
3	1	20	9	25	62.06	39.8	0.641	642.0	10.345	10.33	-11.84
3	1	0	10	7.5	49.20	58.0	1.178	1014.1	20.612	7.26	-12.58
3	1	0	10	15	51.04	42.7	0.836	739.7	14.492	8.94	-12.10
3	1	0	10	2.5	53.96	72.1	1.336	1266.2	23.466	6.66	-12.94
3	1	0	10	25	62.36	35.1	0.563	618.4	9.916	10.79	-11.49
3	2	20	12	2.5	55.59	66.1	1.188	1298.4	23.358	6.46	-18.76
3	2	20	12	7.5	51.83	51.4	0.992	855.4	16.505	6.97	-15.67
3	2	20	12	15	56.43	41.3	0.732	634.3	11.240	7.39	-12.56
3	2	20	12	25	63.88	43.9	0.687	698.8	10.940	8.09	-12.38
3	3	0	25	2.5	51.26	62.5	1.219	1000.4	19.516	6.81	-12.60

3	3	0	25	7.5	53.16	68.1	1.280	1109.1	20.863	6.83	-12.35
3	3	0	25	15	51.83	42.9	0.828	713.2	13.760	9.69	-11.99
3	3	0	25	25	59.50	40.2	0.676	666.8	11.206	11.14	-11.61
3	3	20	26	2.5	51.36	70.9	1.380	1423.4	27.714	6.59	-16.57
3	3	20	26	7.5	55.21	61.8	1.119	1096.6	19.862	7.55	-13.56
3	3	20	26	15	49.88	40.5	0.811	705.5	14.144	9.45	-12.05
3	3	20	26	25	61.30	38.4	0.627	696.6	11.364	10.84	-11.91
6	1	0	7	2.5	59.08	65.0	1.100	994.3	16.830	7.39	-13.20
6	1	0	7	7.5	56.10	58.6	1.045	951.6	16.963	7.94	-12.38
6	1	0	7	15	58.94	49.1	0.832	799.9	13.572	9.42	-12.03
6	1	0	7	25	54.01	34.7	0.642	605.9	11.219	10.82	-11.52
6	1	8	8	2.5	49.76	71.7	1.442	1218.4	24.486	6.60	-14.68
6	1	8	8	7.5	55.57	67.9	1.222	1290.0	23.214	7.58	-15.22
6	1	8	8	15	54.55	51.7	0.947	852.0	15.618	9.49	-12.15
6	1	8	8	25	65.11	49.4	0.759	814.7	12.512	9.97	-11.67
6	1	20	9	2.5	52.13	69.8	1.338	1396.3	26.785	6.42	-18.63
6	1	20	9	7.5	53.45	59.6	1.114	1003.0	18.766	7.67	-14.89
6	1	20	9	15	52.29	46.7	0.894	704.0	13.464	8.63	-12.27
6	1	20	9	25	59.04	34.6	0.586	539.6	9.140	9.81	-11.78
6	2	0	10	2.5	31.43	43.1	1.373	756.7	24.076	6.54	-13.37
6	2	0	10	7.5	40.91	56.2	1.374	1006.8	24.610	6.73	-12.78
6	2	0	10	15	36.52	35.1	0.962	627.7	17.189	8.59	-12.28
6	2	0	10	25	57.53	34.3	0.596	604.4	10.505	10.86	-11.51
6	2	8	11	2.5	50.29	64.5	1.283	1087.2	21.619	6.37	-15.79
6	2	8	11	7.5	53.88	65.1	1.208	1014.5	18.830	6.71	-13.90
6	2	8	11	15	47.40	45.5	0.960	718.2	15.152	8.50	-12.27
6	2	8	11	25	63.63	39.4	0.618	679.4	10.677	10.57	-11.55
6	2	20	12	2.5	20.39	25.0	1.226	540.2	26.495	6.24	-20.74
6	2	20	12	7.5	32.43	34.2	1.055	628.9	19.394	6.66	-17.81
6	2	20	12	15	52.66	41.8	0.793	601.9	11.430	7.95	-12.40
6	2	20	12	25	61.84	39.1	0.632	638.7	10.329	9.10	-11.81
6	3	0	25	2.5	50.99	59.9	1.175	959.9	18.825	7.09	-12.93
6	3	0	25	7.5	51.10	62.4	1.221	989.5	19.364	7.07	-12.91
6	3	0	25	15	50.62	53.5	1.056	861.8	17.026	8.39	-12.22
6	3	0	25	25	62.39	41.5	0.666	681.5	10.924	10.46	-11.65
6	3	20	26	2.5	53.14	73.2	1.377	1422.7	26.772	6.52	-16.90
6	3	20	26	7.5	56.63	73.6	1.300	1299.5	22.947	6.66	-14.51
6	3	20	26	15	52.90	61.5	1.162	1035.3	19.571	7.30	-12.80
6	3	20	26	25	57.61	43.2	0.749	746.4	12.957	10.05	-11.90
6	3	8	27	2.5	52.24	60.7	1.163	1182.0	22.625	7.18	-15.65
6	3	8	27	7.5	53.82	69.1	1.283	1187.7	22.068	7.22	-14.09
6	3	8	27	15	54.43	56.1	1.031	921.5	16.929	8.49	-12.34
6	3	8	27	25	60.54	42.4	0.701	727.3	12.013	10.70	-11.60

(data from CIAT)

year	rep	trt	depth	%N	%C
4	2	0	5	0.135	2.47

4	1	0	5	0.118	2.29
4	3	0	5	0.101	2.11
4	2	20	5	0.109	2.36
4	1	20	5	0.120	2.35
4	3	20	5	0.114	2.36
4	2	0	10	0.119	2.53
4	1	0	10	0.111	2.47
4	3	0	10	0.103	2.50
4	2	20	10	0.090	2.32
4	1	20	10	0.100	2.10
4	3	20	10	0.095	2.21
4	2	0	20	0.113	2.39
4	1	0	20	0.113	2.04
4	3	0	20	0.114	2.21
4	2	20	20	0.077	1.77
4	1	20	20	0.083	1.65
4	3	20	20	0.080	1.89
4	2	0	30	0.085	1.81
4	1	0	30	0.066	1.85
4	3	0	30	0.076	1.90
4	2	20	30	0.054	1.11
4	1	20	30	0.045	1.07
4	3	20	30	0.049	1.14

Table B11. Soil Exchangeable Acidity.

		vol of 0.01 N NaOH			amt soil	mmolc/kg
		START	FINISH	DIFF		
7	control	1.35	7.45	6.1	5.061	24.11
9	Biochar 20	0.15	5.3	5.15	5.046	20.41
10	control	1.25	7.63	6.38	5.048	25.28
12	Biochar 20	0.05	3.05	3	5.088	11.79
25	control	3.15	8.8	5.65	5.076	22.26
26	Biochar 20	0.05	5.3	5.25	5.084	20.65

Table B12. Maize harvest index

		rep	trt	veg	grain	tot	HI
2003	7	3	0	5131.4583	5058.3373	10189.796	0.496412
2003	10	2	0	5959.205	5080.5742	11039.779	0.4602061
2003	25	1	0	5149.8253	4656.7134	9806.5387	0.474858
2003			0				0.4771587
2003	8	3	8	5505.135	4781.7757	10286.911	0.4648408
2003	11	2	8	6042.94	5114.7123	11157.652	0.458404
2003	27	1	8	5138.2083	4798.8568	9937.0651	0.482925
2003			8				0.4687232
2003	9	3	20	5469.1817	4640.1976	10109.379	0.4589993
2003	12	2	20	6404	4742.3396	11146.34	0.4254616
2003	26	1	20	6575.5237	5008.4063	11583.93	0.4323581
2003			20				0.4389397
2004	7	3	0	5344.6875	4662.429	10007.116	0.4659113
2004	10	2	0	5326.0875	5175.691	10501.778	0.4928395
2004	25	1	0	5040.65	5202.6354	10243.285	0.5079069
2004			0				0.4888859
2004	8	3	8	6044.3833	5812.919	11857.302	0.4902396
2004	11	2	8	5870.8125	5757.4262	11628.239	0.4951245
2004	27	1	8	6444.6875	6262.7292	12707.417	0.4928405
2004			8				0.4927349
2004	9	3	20	6748.5083	5901.5469	12650.055	0.4665234
2004	12	2	20	7996.8542	7228.0486	15224.903	0.4747517
2004	26	1	20	7245.7542	6170.75	13416.504	0.4599372
2004			20				0.4670708
2005	7	3	0	6797.8112	5737.1875	12534.999	0.4576935
2005	10	2	0	7036.0811	5918.4422	12954.523	0.456863
2005	25	1	0	7451.2698	5684.1226	13135.392	0.4327334
2005			0				0.4490966
2005	8	3	8	9575.6634	7392.5852	16968.249	0.4356717
2005	11	2	8	7137.375	7113.0729	14250.448	0.4991473
2005	27	1	8	7971.0442	5357.7557	13328.8	0.4019683
2005			8				0.4455958
2005	9	3	20	7093.071	7296.7898	14389.861	0.5070786
2005	12	2	20	8728.9721	8399.8295	17128.802	0.4903921
2005	26	1	20	6734.8318	6811.6761	13546.508	0.5028363
2005			20				0.5001023
2006	7	3	0	3278.7982	1708.4596	4987.2577	0.3425649
2006	10	2	0	3148.3667	2099.9509	5248.3176	0.4001189
2006	25	1	0	3108.3711	1708.493	4816.864	0.3546899
2006			0				0.3657912
2006	9	3	20	6618.5265	4790.0404	11408.567	0.4198635
2006	12	2	20	7146.1458	5102.1342	12248.28	0.4165592
2006	26	1	20	4876.0324	3368.8897	8244.9221	0.4086018
2006			20				0.4150082

Table B13. Data for Figure 3.3.

Grain	Ca					
	0	0 err	8	8 err	20	20 err
2003	0.0243	0.0030	0.0246	0.0015	0.0217	0.0027
2004	0.0371	0.0043	0.0238	0.0077	0.0293	0.0026
2005	0.0013	0.0009	0.0000	0.0000	0.0012	0.0007
2006	0.0000	0.0000			0.0000	0.0000
Grain	Mg					
	0	0 err	8	8 err	20	20 err
2003	1.3164	0.0642	1.4131	0.1086	1.0845	0.0202
2004	1.2005	0.0370	1.1565	0.1374	1.2717	0.0672
2005	1.2451	0.0481	1.2056	0.0185	1.2561	0.0790
2006	0.9480	0.0485			0.9142	0.0550
Vegetative	Ca					
	0	0 err	8	8 err	20	20 err
2003	1.1910	0.0516	1.0784	0.6009	1.4476	0.2011
2004	0.5417	0.3138	1.2372	0.1438	0.5951	0.2484
2005	1.0407	0.0696	0.9342	0.1301	1.2272	0.1349
2006	0.6093	0.0657			0.8291	0.1193
Vegetative	Mg					
	0	0 err	8	8 err	20	20 err
2003	0.9514	0.0733	1.0417	0.2520	1.0576	0.0631
2004	0.6525		1.0104	0.1657	0.7199	
2005	1.0655	0.1076	1.4177	0.2502	1.3333	0.1736
2006	0.6609	0.0920			0.9607	0.1263

Table B14. Exchangeable acidity, potential and effective CEC and base saturation of Colombian savanna Oxisol after biochar addition in 2002. Potential CEC was measured at pH 7. No significant differences were found ($p>0.05$; $n=3$; for CEC at pH 7, $n=1$).

Year	Biochar application rate	Depth	Exch. acidity	Potential CEC	Effective CEC	Base saturation	CEC ¹ at pH 7
	t ha ⁻¹	m		mmol _c kg ⁻¹		%	mmol _c kg ⁻¹
2003	0	0-0.1	n/a	109.6	n/a	n/a	n/a
	20	0-0.1	n/a	97.6	n/a	n/a	n/a
2004	0	0-0.1	n/a	112.3	n/a	n/a	n/a
	20	0-0.1	n/a	92.0	n/a	n/a	n/a
2006	0	0-0.1	23.3	114.7	59.0	37.1	18.8

	20	0-0.1	18.2	97.8	58.0	50.3	81.2
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n/a: data not available

¹CEC determined by titration and calculated for pH 7

Table B15. Effective CEC and base saturation data.

			all in mmolc kg soil-1				
			Ca	Mg	K	Fe	Zn
2003	0	1	20.50	12.81	0.60	10.11	0.03
2003	20	1	20.86	12.19	0.97	10.48	0.07
2003	0	2	11.79	8.01	0.51	12.80	0.15
2003	20	2	32.91	16.62	1.75	5.10	0.13
2003	0	3	8.39	6.66	1.21	11.12	0.02
2003	20	3	16.14	9.99	2.43	9.58	0.06
2004	0	1	5.93	5.26	0.78	9.54	0.50
2004	20	1	13.99	8.48	1.47	8.29	0.00
2004	0	2	12.36	10.09	2.86	13.68	0.10
2004	20	2	25.04	14.52	1.01	5.34	0.08
2004	0	3	13.28	9.85	1.29	10.04	0.06
2004	20	3	30.15	18.71	1.76	7.99	0.12
2006	0	1	5.66	7.75	3.01	11.08	0.17
2006	8	1	8.66	7.07	3.48	11.38	0.18
2006	20	1	11.27	6.78	1.03	9.43	0.43
2006	0	2	18.79	10.18	1.34	14.58	0.29
2006	8	2	16.81	9.68	2.88	11.53	0.25
2006	20	2	24.21	15.30	1.39	6.87	0.43
2006	0	3	11.06	6.61	2.30	11.41	0.09
2006	20	3	16.39	9.35	3.01	12.33	0.18
2006	8	3	4.72	3.60	1.11	10.45	0.05

							exch		SUM	
			Cu	Mn	Mo	Sr	acidity	SUM	w/ acidity	BS (%)
2003	0	1	0.02	0.22	0.00	0.01		44.30		
2003	20	1	0.02	0.69	0.00	0.02		45.31		
2003	0	2	0.01	0.23	0.00	0.00		33.48		
2003	20	2	0.03	0.63	0.00	0.03		57.21		
2003	0	3	0.00	0.19	0.00	0.00		27.59		
2003	20	3	0.04	0.70	0.00	0.01		38.95		
2004	0	1	0.02	0.25	0.00	0.00		22.28		
2004	20	1	0.01	0.58	0.01	0.01		32.83		
2004	0	2	0.01	0.37	0.00	0.01		39.47		
2004	20	2	0.05	0.86	0.00	0.02		46.92		

2004	0	3	0.04	0.33	0.00	0.00		34.89		
2004	20	3	0.04	0.81	0.00	0.03		59.60		
2006	0	1	0.07	0.25	0.00	0.00	24.11	28.00	52.10	31.52
2006	8	1	0.09	0.44	0.00	0.00		31.30		
2006	20	1	0.06	0.65	0.00	0.01	20.41	29.66	50.07	38.10
2006	0	2	0.08	0.33	0.00	0.02	25.28	45.60	70.88	42.75
2006	8	2	0.07	0.47	0.00	0.01		41.70		
2006	20	2	0.09	0.95	0.00	0.03	11.79	49.27	61.06	66.99
2006	0	3	0.04	0.26	0.00	0.00	22.26	31.78	54.04	36.96
2006	20	3	0.06	0.72	0.00	0.01	20.65	42.06	62.71	45.85
2006	8	3	0.04	0.30	0.00	0.00		20.27		

Averages

			ECEC	BS
			mmolc kg soil- 1	%
2006	0	1	52.1	31.5
2006	20	1	50.1	38.1
2006	0	2	70.9	42.8
2006	20	2	61.1	67.0
2006	0	3	54.0	37.0
2006	20	3	62.7	45.8

Figure B1. Point of zero net charge

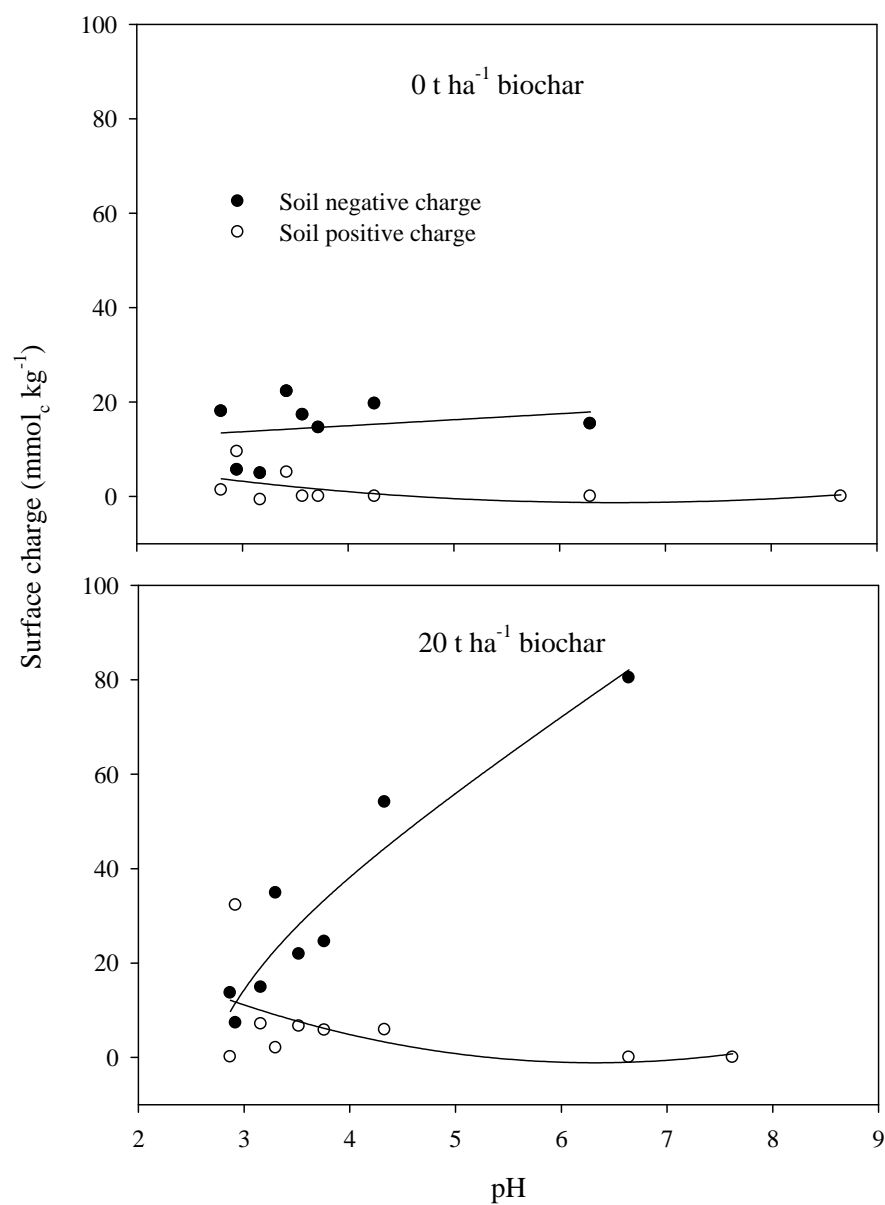


Table B16. PZNC data

Tube	tube weight	tube+soil paste	dry soil used	tube+soil after pH equil.	pH	mass entrained soln
	g	g	g	g		g
C1	13.59	13.79	0.16	13.87	2.80	0.08
C2	13.75	13.96	0.17	14.02	2.95	0.07

C3	13.38	13.60	0.17	13.70	3.17	0.10
C4	13.40	13.61	0.16	13.69	3.42	0.08
C5	13.45	13.69	0.19	13.77	3.57	0.08
C6	13.52	13.72	0.16	13.81	3.72	0.09
C7	13.64	13.85	0.16	13.98	4.25	0.13
C8	13.60	13.82	0.17	14.28	6.29	0.46
C9	13.43	13.65	0.18	14.53	8.66	0.88
T1	13.45	13.73	0.22	13.82	2.87	0.09
T2	13.50	13.71	0.16	13.79	2.92	0.08
T3	13.46	13.66	0.16	13.71	3.16	0.05
T4	13.56	13.77	0.17	13.84	3.30	0.07
T5	13.42	13.63	0.17	13.69	3.52	0.06
T6	13.63	13.85	0.18	13.91	3.76	0.06
T7	13.51	13.75	0.19	13.80	4.33	0.06
T8	13.78	14.02	0.18	14.16	6.64	0.15
T9	13.73	13.93	0.16	14.77	7.62	0.84

Tube	[K] in KCl	[Cl] in KCl	[K] in NH ₄ NO ₃	[Cl] in NH ₄ NO ₃	K in NH ₄ NO ₃
	ug/ml	ug/ml	ug/ml	ug/ml	ug
C1	290.70	257.04	2.05	1.08	40.94
C2	311.30	257.18	1.34	1.35	26.86
C3	329.50	263.44	1.94	1.32	38.84
C4	358.00	262.36	2.54	1.30	50.82
C5	354.20	268.06	2.34	1.09	46.72
C6	357.50	265.83	2.31	1.13	46.12
C7	377.90	264.10	3.50	1.06	69.98
C8	376.70	261.28	9.43	2.28	188.60
C9	365.60	254.26	14.35	5.15	287.00
T1	296.70	256.77	2.03	1.17	40.50
T2	308.50	263.04	1.62	2.68	32.42
T3	325.80	260.88	1.59	1.03	31.74
T4	346.10	266.88	2.97	1.05	59.46
T5	357.20	263.30	2.23	1.17	44.58
T6	367.10	267.80	2.35	1.11	47.04
T7	373.90	266.75	3.79	1.07	75.86
T8	371.40	260.88	6.75	1.36	135.08
T9	369.10	252.99	13.67	4.56	273.40

Tube	Cl in NH ₄ NO ₃	vol. entr*[] K	vol. entr*[] Cl	Kads	Kads
	ug			ug	mg
C1	21.59	22.91	20.26	18.03	0.02
C2	27.03	21.26	17.57	5.60	0.01

C3	26.45	33.97	27.16	4.87	0.00
C4	26.06	28.60	20.96	22.22	0.02
C5	21.79	29.47	22.30	17.25	0.02
C6	22.56	31.57	23.47	14.55	0.01
C7	21.20	50.37	35.21	19.61	0.02
C8	45.70	173.21	120.14	15.39	0.02
C9	103.04	322.09	224.00	-	-
T1	23.34	26.85	23.24	13.65	0.01
T2	53.67	25.11	21.41	7.31	0.01
T3	20.62	16.91	13.54	14.83	0.01
T4	21.01	24.64	19.00	34.82	0.03
T5	23.34	22.68	16.72	21.90	0.02
T6	22.17	22.50	16.42	24.54	0.02
T7	21.40	21.80	15.55	54.06	0.05
T8	27.23	54.67	38.40	80.41	0.08
T9	91.19	309.67	212.26	-	-

Tube	Kads	Kads	Clads	Clads	Clads	Clads
	mmol c	mmolc/kg soil	ug	mg	mmol c	mmolc/kg soil
C1	0.02	18.03	1.34	0.00	0.00	1.34
C2	0.01	5.60	9.47	0.01	0.01	9.47
C3	0.00	4.87	-0.71	0.00	0.00	-0.71
C4	0.02	22.22	5.10	0.01	0.01	5.10
C5	0.02	17.25	-0.52	0.00	0.00	-0.52
C6	0.01	14.55	-0.91	0.00	0.00	-0.91
C7	0.02	19.61	-14.00	-0.01	-0.01	-14.00
C8	0.02	15.39	-74.44	-0.07	-0.07	-74.44
C9	-0.04	-35.09	-	-0.12	-0.12	-120.95
T1	0.01	13.65	0.10	0.00	0.00	0.10
T2	0.01	7.31	32.26	0.03	0.03	32.26
T3	0.01	14.83	7.08	0.01	0.01	7.08
T4	0.03	34.82	2.01	0.00	0.00	2.01
T5	0.02	21.90	6.62	0.01	0.01	6.62
T6	0.02	24.54	5.76	0.01	0.01	5.76
T7	0.05	54.06	5.85	0.01	0.01	5.85
T8	0.08	80.41	-11.17	-0.01	-0.01	-11.17
T9	-0.04	-36.27	-	-0.12	-0.12	-121.07

Table B17. Plotted PZNC data

		Kads	Kads
	pH	mmolc/kg soil	mmolc/kg soil
C1	2.8	18.03	18.03
C2	2.95	5.60	5.60
C3	3.17	4.87	4.87
C4	3.42	22.22	22.22
C5	3.57	17.25	17.25
C6	3.72	14.55	14.55
C7	4.25	19.61	19.61
C8	6.29	15.39	15.39
C9	8.66	-35.09	0.00
T1	2.87	13.65	13.65
T2	2.92	7.31	7.31
T3	3.16	14.83	14.83
T4	3.3	34.82	34.82
T5	3.52	21.90	21.90
T6	3.76	24.54	24.54
T7	4.33	54.06	54.06
T8	6.64	80.41	80.41
T9	7.62	-36.27	0.00
		Clads	Clads
		mmolc/kg soil	mmolc/kg soil
C1	2.8	1.34	1.34
C2	2.95	9.47	9.47
C3	3.17	-0.71	-0.71
C4	3.42	5.10	5.10
C5	3.57	-0.52	0.00
C6	3.72	-0.91	0.00
C7	4.25	-14.00	0.00
C8	6.29	-74.44	0.00
C9	8.66	-120.95	0.00
T1	2.87	0.10	0.10
T2	2.92	32.26	32.26
T3	3.16	7.08	7.08
T4	3.3	2.01	2.01
T5	3.52	6.62	6.62
T6	3.76	5.76	5.76
T7	4.33	5.85	5.85
T8	6.64	-11.17	0.00
T9	7.62	-121.07	0.00

BIOCHAR APPLICATION TO A COLOMBIAN SAVANNA OXISOL: FATE AND
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Volume II

A Dissertation

Presented to the Faculty of the Graduate School

of Cornell University

In Partial Fulfillment of the Requirements for the Degree of

Doctor of Philosophy

by

Julie Major

May 2009

APPENDIX C

Raw data and extra figures pertaining to Chapter 4.

Table C1. ICP and inorganic nitrogen results for samples from free-draining lysimeters.

sample #	date	trt	depth	vol L	area m2	NH ₄ -N ug/ml	NH ₄ -N g/ha
1	23-Jun-05	0	0.15	2.039	0.041209	0.043268	21.41
5	7-Jul-05	0	0.15	3.215	0.041209	0	0.00
11	17-Jul-05	0	0.15	2.867	0.041209	0	0.00
18	10-Aug-05	0	0.15	1.454	0.041209	0	0.00
19	17-Aug-05	0	0.15	1.788	0.041209	0	0.00
23	24-Aug-05	0	0.15	3.197	0.041209	0	0.00
27	13-Sep-05	0	0.15	1.036	0.041209	0	0.00
28	28-Sep-05	0	0.15	2.812	0.041209	0.046563	31.77
35	4-Oct-05	0	0.15	3.057	0.041209	0.062994	46.73
40	25-Oct-05	0	0.15	1.872	0.041209	0	0.00
44	1-Nov-05	0	0.15	1.437	0.041209	0.038875	13.56
51	24-Apr-06	0	0.15	0.404	0.041209	0	0.00
55	27-Apr-06	0	0.15	1.621	0.041209	0.112673	44.32
57	4-May-06	0	0.15	2.206	0.041209	0.055324	29.62
61	10-May-06	0	0.15	3.07	0.041209	0.014843	11.06
65	24-May-06	0	0.15	0.786	0.041209	0.015467	2.95

				flux	area	NH4-N	NH4-N
sample #	date	trt	depth	L	m2	ug/ml	g/ha
69	31-May-06	0	0.15	0.176	0.041209	0	0.00
72	28-Jun-06	0	0.15	0.074	0.041209	0.003138	0.06
75	13-Jul-06	0	0.15	1.454	0.041209	0	0.00
80	26-Jul-06	0	0.15	1.621	0.041209	0.036763	14.46
82	15-Aug-06	0	0.15	0.936	0.041209	0.008742	1.99
84	16-Aug-06	0	0.15	2.077	0.041209	0	0.00
91	23-Aug-06	0	0.15	0.917	0.041209	0	0.00
95	30-Aug-06	0	0.15	5.625	0.041209	0	0.00
103	28-Sep-06	0	0.15	0.47	0.041209	0.164537	18.77
105	5-Oct-06	0	0.15	1.095	0.041209	0.141	37.47
109	25-Oct-06	0	0.15	5.975	0.041209	0	0.00
116	9-Nov-06	0	0.15	1.113	0.041209	0	0.00
121	16-Nov-06	0	0.15	0.094	0.041209	0	0.00
126	13-Dec-06	0	0.15	0.2	0.041209	0	0.00
131	30-Nov-06	0	0.15	1.077	0.041209	0.010469	2.74
9	7-Jul-05	20	0.15	0.669	0.042025	0	0.00
15	17-Jul-05	20	0.15	3.134	0.042025	0	0.00
21	17-Aug-05	20	0.15	0.535	0.042025	0	0.00
25	24-Aug-05	20	0.15	2.81	0.042025	0	0.00
32	28-Sep-05	20	0.15	6.221	0.042025	2.580906	3820.54
38	4-Oct-05	20	0.15	1.203	0.042025	0.587088	168.06
42	25-Oct-05	20	0.15	2.72	0.042025	0	0.00
47	27-Dec-05	20	0.15	0.074	0.042025	0.068526	1.21
48	17-Mar-06	20	0.15	2.85	0.042025	0.755985	512.68
50	31-Mar-06	20	0.15	0.652	0.042025	0.014843	2.30
52	24-Apr-06	20	0.15	0.702	0.042025	0.000225	0.04
62	10-May-06	20	0.15	0.367	0.042025	0.003598	0.31
67	24-May-06	20	0.15	0.652	0.042025	0	0.00
70	31-May-06	20	0.15	0.501	0.042025	0	0.00
87	16-Aug-06	20	0.15	9.375	0.042025	0.129792	289.54
99	30-Aug-06	20	0.15	5.225	0.042025	0.086079	107.02
104	28-Sep-06	20	0.15	0.1	0.042025	2.067698	49.20
106	17-Oct-06	20	0.15	0.08	0.042025	0.035642	0.68
113	25-Oct-06	20	0.15	2.74	0.042025	0	0.00
119	9-Nov-06	20	0.15	0.595	0.042025	0	0.00
124	16-Nov-06	20	0.15	0.334	0.042025	0	0.00
129	13-Dec-06	20	0.15	0.131	0.042025	0	0.00
6	7-Jul-05	0	0.3	0.051	0.042025	0	0.00
12	17-Jul-05	0	0.3	1.454	0.042025	0	0.00
29	28-Sep-05	0	0.3	3.379	0.042025	3.298265	2651.95
36	4-Oct-05	0	0.3	2.855	0.042025	2.694239	1830.35
46	27-Dec-05	0	0.3	0.02	0.042025	0.361183	1.72
76	13-Jul-06	0	0.3	0.205	0.042025	0.10065	4.91
85	16-Aug-06	0	0.3	0.535	0.042025	0.013226	1.68
96	30-Aug-06	0	0.3	6.873	0.042025	0.01883	30.80

				flux	area	NH ₄ -N	NH ₄ -N
sample #	date	trt	depth	L	m2	ug/ml	g/ha
110	25-Oct-06	0	0.3	4.255	0.042025	0	0.00
117	9-Nov-06	0	0.3	0.461	0.042025	0	0.00
122	16-Nov-06	0	0.3	0.025	0.042025	0.008096	0.05
132	30-Nov-06	0	0.3	0.135	0.042025	0	0.00
127	13-Dec-06	0	0.3	2.852	0.042025	0	0.00
3	23-Jun-05	20	0.3	0.235	0.042025	0	0.00
16	17-Jul-05	20	0.3	0.618	0.042025	0	0.00
33	28-Sep-05	20	0.3	5.358	0.042025	1.284208	1637.31
53	24-Apr-06	20	0.3	0.936	0.042025	0.28022	62.41
59	4-May-06	20	0.3	1.538	0.042025	0	0.00
63	10-May-06	20	0.3	0.769	0.042025	0.135162	24.73
88	16-Aug-06	20	0.3	2.521	0.042025	0	0.00
93	23-Aug-06	20	0.3	0.367	0.042025	0	0.00
100	30-Aug-06	20	0.3	4.03	0.042025	0	0.00
107	17-Oct-06	20	0.3	1.772	0.042025	0	0.00
114	25-Oct-06	20	0.3	1.454	0.042025	0	0.00
2	23-Jun-05	0	0.6	2.855	0.042025	1.536789	1044.03
7	7-Jul-05	0	0.6	3.109	0.042025	0.002636	1.95
13	17-Jul-05	0	0.6	3.299	0.042025	0.195915	153.79
20	17-Aug-05	0	0.6	1.538	0.042025	0	0.00
24	24-Aug-05	0	0.6	3.261	0.042025	2.107841	1635.61
30	28-Sep-05	0	0.6	11.571	0.042025	1.977158	5443.83
37	4-Oct-05	0	0.6	3.024	0.042025	0.072629	52.26
41	25-Oct-05	0	0.6	3.185	0.042025	0	0.00
58	4-May-06	0	0.6	1.872	0.042025	0.707523	315.17
66	24-May-06	0	0.6	0.282	0.042025	0.384219	25.78
73	28-Jun-06	0	0.6	0.176	0.042025	0.197041	8.25
77	13-Jul-06	0	0.6	3.105	0.042025	1.603676	1184.87
81	26-Jul-06	0	0.6	0.669	0.042025	1.468056	233.70
83	15-Aug-06	0	0.6	0.432	0.042025	0.092804	9.54
86	16-Aug-06	0	0.6	3.757	0.042025	0.078234	69.94
92	23-Aug-06	0	0.6	0.538	0.042025	0.097288	12.45
97	30-Aug-06	0	0.6	7.125	0.042025	0.040126	68.03
111	25-Oct-06	0	0.6	8.375	0.042025	0	0.00
118	9-Nov-06	0	0.6	1.702	0.042025	0	0.00
123	16-Nov-06	0	0.6	0.1	0.042025	0.022714	0.54
133	30-Nov-06	0	0.6	0.2	0.042025	0	0.00
128	13-Dec-06	0	0.6	0.72	0.042025	0	0.00
4	23-Jun-05	20	0.6	1.036	0.042025	0.036679	9.04
10	7-Jul-05	20	0.6	3.499	0.042025	0.359543	299.36
17	17-Jul-05	20	0.6	3.52	0.042025	0	0.00
22	17-Aug-05	20	0.6	3.023	0.042025	0	0.00
26	24-Aug-05	20	0.6	2.644	0.042025	0	0.00
34	28-Sep-05	20	0.6	3.323	0.042025	0.811992	642.06
39	4-Oct-05	20	0.6	1.705	0.042025	0	0.00

				flux	area	NH ₄ -N	NH ₄ -N
sample #	date	trt	depth	L	m2	ug/ml	g/ha
43	25-Oct-05	20	0.6	2.951	0.042025	0	0.00
49	17-Mar-06	20	0.6	2.85	0.042025	0	0.00
54	24-Apr-06	20	0.6	4.411	0.042025	0	0.00
56	27-Apr-06	20	0.6	1.371	0.042025	0	0.00
60	4-May-06	20	0.6	3.246	0.042025	0	0.00
64	10-May-06	20	0.6	3.075	0.042025	0	0.00
68	24-May-06	20	0.6	2.173	0.042025	0	0.00
71	31-May-06	20	0.6	1.488	0.042025	0	0.00
74	28-Jun-06	20	0.6	2.29	0.042025	11.26205	6136.85
79	13-Jul-06	20	0.6	3.55	0.042025	2.457745	2076.14
89	16-Aug-06	20	0.6	7.475	0.042025	0.6308	1122.01
94	23-Aug-06	20	0.6	1.095	0.042025	0.081596	21.26
101	30-Aug-06	20	0.6	4.975	0.042025	0.062542	74.04
108	17-Oct-06	20	0.6	4.225	0.042025	0	0.00
115	25-Oct-06	20	0.6	7.425	0.042025	0	0.00
120	9-Nov-06	20	0.6	0.165	0.042025	0.057573	2.26
125	16-Nov-06	20	0.6	0.595	0.042025	0	0.00
130	13-Dec-06	20	0.6	0.028	0.042025	0.130455	0.87
14	17-Jul-05	0	1.2	0.367	0.042025	0	0.00
31	28-Sep-05	0	1.2	2.089	0.042025	0.001349	0.67
78	13-Jul-06	0	1.2	0.535	0.042025	0	0.00
98	30-Aug-06	0	1.2	0.786	0.042025	0	0.00
112	25-Oct-06	0	1.2	1.454	0.042025	0	0.00
90	16-Aug-06	20	1.2	0.535	0.042025	0.002017	0.26
102	30-Aug-06	20	1.2	0.461	0.042025	0	0.00

	NO ₃ -N	NO ₃ -N	Al3961	Al3961	As1890	As1890	B_2496	B_2496	Ba4934	Ba4934
#	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha
1	7.8501	3884.1889	0.2134	105.5845	0.0000	0.0000	0.3475	171.9593	0.0969	47.9449
5	0.7353	573.6585	1.8625	1453.1021	0.0000	0.0000	0.2756	215.0400	0.0683	53.2563
11	0.3400	236.5454	0.9742	677.7848	0.0055	3.8072	0.5146	358.0493	0.0598	41.6335
18	0.3152	111.2138	3.4160	1205.2704	0.0052	1.8498	0.1942	68.5118	0.0402	14.1833
19	0.1919	83.2627	2.6699	1158.4341	0.0050	2.1593	0.5076	220.2527	0.0645	27.9943
23	0.0787	61.0556	2.4803	1924.2424	0.0033	2.5969	0.3232	250.7097	0.0515	39.9375
27	0.7908	198.8082	1.9897	500.2188	0.0015	0.3653	0.1685	42.3557	0.0507	12.7432
28	1.7914	1222.4069	0.5100	348.0170	0.0000	0.0000	0.5068	345.8233	0.0959	65.4638
35	6.1365		0.0768	56.9582	0.0000	0.0000	0.1537	114.0388	0.1131	83.9207
40	4.1169	1870.1829	0.1339	60.8275	0.0000	0.0000	0.3981	180.8438	0.1251	56.8096
44	1.7627	614.6715	1.7745	618.7934	0.0037	1.2922	0.5938	207.0772	0.1299	45.2964
51	26.1109	2559.8300	0.0239	2.3469	0.0000	0.0000	0.5952	58.3553	0.2675	26.2259
55	16.1433	6350.1394	0.8629	339.4269	0.0000	0.0135	0.5910	232.4905	0.4035	158.7342
57	2.9346	1570.9499	0.7474	400.0800	0.0000	0.0000	0.7812	418.1724	0.3092	165.5435
61	1.6031	1194.2821	1.3381	996.8546	0.0000	0.0000	0.7008	522.1071	0.2426	180.7469
65	13.0884	2496.4164	0.0421	8.0366	0.0000	0.0000	0.7756	147.9385	0.4138	78.9300

	NO ₃ -N	NO ₃ -N	Al3961	Al3961	As1890	As1890	B_2496	B_2496	Ba4934	Ba4934
#	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha
69	14.4244	616.0534	0.0562	2.4015	0.0001	0.0064	1.5313	65.4020	0.6940	29.6411
72	3.8602	69.3185	0.0532	0.9556	0.0000	0.0000	0.6035	10.8380	0.2441	4.3828
75	1.3355	471.2119	1.0287	362.9722	0.0000	0.0000	0.7466	263.4249	0.2011	70.9602
80	0.3488	137.2042	1.9823	779.7748	0.0000	0.0000	0.4673	183.8184	0.1348	53.0190
82	0.3961	89.9681	2.2105	502.0928	0.0000	0.0000	0.4677	106.2302	0.1198	27.2137
84	0.5435	273.9328	1.6258	819.4313	0.0000	0.0000	0.7233	364.5622	0.1765	88.9493
91	0.7777	173.0571	1.8431	410.1436	0.0000	0.0000	0.5492	122.2008	0.1713	38.1083
95	0.2993	408.5424	1.5482	2113.2305	0.0000	0.0000	0.3784	516.4839	0.1436	196.0693
103	6.1829	705.1768	0.2388	27.2399	0.0052	0.5905	0.7932	90.4716	0.3369	38.4231
105	5.6755	1508.0862	0.2104	55.8978	0.0000	0.0000	0.4041	107.3768	0.0547	14.5405
109	6.6845	9692.0303	0.3769	546.4960	0.0024	3.4498	0.4934	715.4100	0.3067	444.6603
116	6.0377	1630.7021	0.4916	132.7714	0.0029	0.7799	0.1754	47.3630	0.1531	41.3513
121	6.2277	142.0573	0.1527	3.4828	0.0000	0.0000	0.7321	16.6988	0.4182	9.5403
126	3.4140	165.6920	0.1314	6.3770	0.0000	0.0000	0.4752	23.0608	0.2572	12.4845
131	4.6569	1217.0840	0.2540	66.3907	0.0003	0.0665	0.4363	114.0300	0.2399	62.7106
9	12.3477	1965.6422	0.0251	3.9899	0.0000	0.0000	0.6499	103.4630	0.2270	36.1323
15	7.7862	5806.5320	0.0402	29.9622	0.0000	0.0000	0.3329	248.2374	0.1748	130.3765
21	0.4516	57.4910	0.4528	57.6445	0.0016	0.2032	0.3384	43.0825	0.0731	9.3039
25	0.2950	197.2516	1.2306	822.8159	0.0023	1.5045	0.4771	319.0228	0.0773	51.6838
32	2.7467	4065.9657	0.3735	552.8779	0.0000	0.0000	0.4959	734.1208	0.2405	355.9793
38	11.9929		0.8243	235.9658	0.0000	0.0000	0.4301	123.1266	0.3376	96.6447
42	6.7166	4347.2105	0.3113	201.5017	0.0002	0.1167	0.4361	282.2854	0.2041	132.0994
47	4.5612	80.3162	0.0374	0.6591	0.0051	0.0901	0.9118	16.0549	0.4459	7.8520
48	8.2378	5586.6104	0.0125	8.5061	0.0047	3.1936	0.6232	422.6676	0.3255	220.7491
50	8.9096	1382.2865	0.0272	4.2241	0.0081	1.2542	0.4860	75.4000	0.2890	44.8400
52	4.1487	693.0131	0.0170	2.8326	0.0084	1.4095	0.7479	124.9316	0.3356	56.0647
62	8.1102	708.2554	0.0188	1.6425	0.0000	0.0000	0.5097	44.5112	0.2868	25.0419
67	9.7722	1516.1153	0.0246	3.8206	0.0000	0.0000	0.7327	113.6733	0.3935	61.0543
70	8.2368	981.9481	0.1244	14.8287	0.0000	0.0000	0.6689	79.7472	0.3987	47.5364
87	0.6319	1409.6520	1.0179	2270.6895	0.0015	3.2817	0.6713	1497.6539	0.1596	355.9463
99	1.3388	1664.5402	1.1405	1418.0498	0.0146	18.1549	0.6824	848.4734	0.2571	319.6180
104	2.6298	62.5770	0.1955	4.6521	0.0051	0.1221	0.7405	17.6214	0.3094	7.3633
106	15.5143	295.3347	1.0766	20.4935	0.0000	0.0000	1.2152	23.1334	0.9335	17.7700
113	11.4368	7456.7120	3.4266	2234.1225	0.0000	0.0000	0.4986	325.0515	0.5268	343.4781
119	3.5509	502.7449	0.6817	96.5139	0.0000	0.0000	0.8082	114.4268	0.4589	64.9756
124	1.2566	99.8702	0.0827	6.5761	0.0049	0.3893	0.7570	60.1601	0.3246	25.8003
129	1.6304	50.8227	0.2795	8.7116	0.0000	0.0000	0.5286	16.4759	0.2464	7.6815
6	31.7895	385.7857	0.0530	0.6435	0.0000	0.0000	0.1227	1.4895	0.0388	0.4705
12	14.8868	5150.6025	0.0453	15.6589	0.0060	2.0760	0.2915	100.8518	0.1023	35.3896
29	6.9440	5583.2899	1.7077	1373.0447	0.0041	3.2877	0.3234	260.0038	0.1228	98.7087
36	12.7570		2.2720	1543.5208	0.0000	0.0000	0.1102	74.8981	0.1085	73.7218
46	17.1953		0.0820	0.3901	0.0000	0.0000	0.8725	4.1525	0.1950	0.9282
76	42.1866	2057.8829	0.0759	3.7035	0.0014	0.0699	0.6035	29.4411	0.4426	21.5894
85	29.5171	3757.6796	0.0411	5.2282	0.0026	0.3353	0.4944	62.9374	0.3168	40.3313

	NO ₃ -N	NO ₃ -N	Al3961	Al3961	As1890	As1890	B_2496	B_2496	Ba4934	Ba4934
#	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha
96	7.2624	11877.3290	0.3833	626.9393	0.0000	0.0000	0.4257	696.1734	0.2706	442.4833
110	6.7238	6807.7975	0.6782	686.6735	0.0000	0.0000	0.3612	365.7400	0.0829	83.9028
117	0.9878	108.3583	0.0997	10.9349	0.0000	0.0000	0.8681	95.2294	0.3104	34.0493
122	0.9664	5.7490	0.2028	1.2065	0.0037	0.0221	0.3851	2.2907	0.1664	0.9898
132	0.3805	12.2231	1.0726	34.4565	0.0023	0.0741	0.0932	2.9929	0.0561	1.8030
127	1.1459	777.6578	0.9922	673.3393	0.0000	0.0000	0.1274	86.4451	0.0832	56.4547
3	11.0476	617.7718	0.0157	0.8777	0.0090	0.5007	0.3768	21.0720	0.1061	5.9306
16	11.7916	1734.0176	0.0309	4.5424	0.0000	0.0000	0.2358	34.6732	0.0568	8.3488
33	3.2664	4164.5143	0.0313	39.8544	0.0028	3.5904	0.3478	443.4627	0.1333	169.9020
53	18.7648	4179.3820	0.0768	17.1121	0.0023	0.5054	0.7675	170.9427	0.3454	76.9182
59	3.1660	1158.6694	0.2809	102.8032	0.0004	0.1631	0.7327	268.1434	0.3432	125.6009
63	23.1140	4229.5457	0.0183	3.3481	0.0000	0.0000	0.8213	150.2921	0.6578	120.3771
88	4.9149	2948.3552	0.1615	96.8651	0.0047	2.8040	0.6629	397.6739	0.3521	211.2334
93	5.5093	481.1215	0.0696	6.0739	0.0050	0.4357	0.6811	59.4781	0.3362	29.3609
100	3.4672	3324.8819	0.0455	43.5861	0.0012	1.1848	0.5122	491.1394	0.2789	267.4708
107	6.3750	2688.0428	0.4615	194.6063	0.0000	0.0000	0.4480	188.9108	0.3586	151.1859
114	6.1359	2122.9265	0.1911	66.1293	0.0040	1.3819	0.6565	227.1464	0.3873	134.0157
2	16.1765	10989.6270	0.3238	219.9837	0.0000	0.0000	0.4794	325.6574	0.3135	212.9791
7	15.3703	11370.9132	1.1581	856.7458	0.0021	1.5620	0.5314	393.1143	0.3630	268.5540
13	11.3987	8948.0812	1.4761	1158.7607	0.0081	6.3845	0.8117	637.2039	0.3866	303.4594
20	13.3250	4876.5854	1.2284	449.5499	0.0028	1.0141	0.5381	196.9451	0.3326	121.7115
24	8.6522	6713.8190	0.3857	299.2707	0.0000	0.0000	0.4716	365.9205	0.2337	181.3082
30	5.6806	15640.7430	1.8085	4979.4906	0.0000	0.0000	0.5054	1391.6445	0.2757	759.0319
37	8.1212		2.3122	1663.8003	0.0000	0.0000	0.2050	147.4898	0.1876	134.9965
41	5.4507	4130.9886	0.7790	590.4236	0.0037	2.8002	0.6372	482.9440	0.2580	195.5201
58	6.3972	2849.6272	0.1625	72.3659	0.0000	0.0000	0.8186	364.6266	0.4127	183.8533
66	8.8276	592.3577	0.2709	18.1787	0.0061	0.4096	0.7341	49.2584	0.4332	29.0722
73	17.5197	733.7221	0.2306	9.6575	0.0066	0.2766	0.6390	26.7597	0.3797	15.9039
77	21.1503	15626.8130	3.8876	2872.3401	0.0000	0.0000	0.7125	526.4529	0.6277	463.7921
81	38.2576	6090.2640	7.1158	1132.7721	0.0000	0.0000	0.6390	101.7302	0.8415	133.9641
83	39.5551	4066.1043	12.2597	1260.2507	0.0066	0.6829	0.5772	59.3387	0.9237	94.9575
86	17.5534	15692.5934	7.9115	7072.7787	0.0000	0.0000	0.5576	498.4757	0.5385	481.3997
92	24.4660	3132.1137	9.4053	1204.0592	0.0087	1.1178	0.6011	76.9553	0.7046	90.2007
97	12.8563	21796.8203	7.1987	12204.7369	0.0000	0.0000	0.6568	1113.4781	0.5169	876.3514
111	12.9487	25804.9643	6.0219	12000.8998	0.0000	0.0000	0.5217	1039.7538	0.3956	788.4291
118	8.4340	3415.7449	3.2813	1328.9030	0.0000	0.0000	0.4510	182.6341	0.3131	126.7964
123	8.1243	193.3206	3.2891	78.2651	0.0037	0.0888	0.7189	17.1062	0.4476	10.6502
133	6.0222	286.6008	2.5793	122.7495	0.0000	0.0000	0.7422	35.3235	0.3580	17.0379
128	6.1015	1045.3492	2.5379	434.8013	0.0000	0.0000	0.5783	99.0835	0.3343	57.2709
4	4.9239	1213.8395	0.0033	0.8091	0.0027	0.6582	0.5965	147.0585	0.1348	33.2405
10	18.9604	15786.4223	2.7451	2285.5295	0.0036	2.9687	0.6262	521.3909	0.3807	316.9789
17	13.5378	11339.2162	2.7642	2315.2913	0.0003	0.2135	0.5298	443.7752	0.3151	263.9543
22	8.7501	6294.2421	1.5995	1150.5624	0.0037	2.6311	0.6103	438.9831	0.2894	208.2049
26	6.7669	4257.3905	1.4331	901.6555	0.0000	0.0000	0.6155	387.2346	0.2885	181.5330
34	5.0167	3966.8041	1.1037	872.6991	0.0041	3.2422	0.6481	512.4638	0.2861	226.2573

	NO ₃ -N	NO ₃ -N	Al3961	Al3961	As1890	As1890	B_2496	B_2496	Ba4934	Ba4934
#	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha
39	5.0683	2056.26	1.6773	680.4973	0.0000	0.0000	0.2873	116.5474	0.1852	75.1436
43	5.7419	4031.9683	1.2111	850.4412	0.0000	0.0000	0.4678	328.4806	0.2136	150.0089
49	4.9502	3357.0660	0.5363	363.7096	0.0009	0.5877	1.2339	836.7868	0.6099	413.6361
54	3.7044	3888.1876	0.4935	517.9530	0.0000	0.0000	0.7437	780.5948	0.3891	408.3568
56	2.8063	915.5116	0.2144	69.9354	0.0000	0.0000	0.8936	291.5092	0.4050	132.1341
60	3.1849	2460.0084	0.2057	158.8549	0.0086	6.6477	0.9404	726.3959	0.3946	304.7853
64	3.9930	2921.7073	0.4295	314.2742	0.0025	1.8650	0.8213	600.9729	0.3934	287.8535
68	6.3167	3266.1961	1.2003	620.6206	0.0000	0.0000	0.6080	314.3977	0.3624	187.4021
71	8.4729	3000.0417	1.8032	638.4717	0.0017	0.5846	0.8379	296.6704	0.4775	169.0826
74	30.5862	16666.8407	13.0291	7099.7518	0.0060	3.2487	0.5695	310.3187	0.5211	283.9726
79	20.1196	16995.7359	12.0067	10142.4919	0.0000	0.0000	0.8597	726.1961	0.6047	510.8486
89	7.1654	12745.1196	5.0430	8969.9876	0.0000	0.0000	0.7065	1256.5838	0.3212	571.2331
94	3.7118	967.1436	2.3094	601.7482	0.0000	0.0000	0.5851	152.4623	0.2852	74.3198
101	3.5693	4225.4057	1.9600	2320.3104	0.0000	0.0000	0.5919	700.6930	0.2973	351.9040
108	7.4830	7523.0637	3.2975	3315.1250	0.0000	0.0000	0.5739	577.0113	0.2862	287.7039
115	6.0010	10602.5996	2.6220	4632.5659	0.0000	0.0000	0.9652	1705.3514	0.5027	888.2561
120	4.6922	184.2268	1.6977	66.6545	0.0000	0.0000	0.5754	22.5917	0.3127	12.2772
125	4.7530	672.9411	1.8589	263.1916	0.0011	0.1531	0.7306	103.4401	0.4003	56.6727
130	4.9591	33.0410	3.5988	23.9778	0.0000	0.0000	0.3416	2.2761	0.1648	1.0979
14	3.8395	335.2996	0.1133	9.8976	0.0000	0.0000	0.1872	16.3515	0.0500	4.3683
31	5.1440	2557.0056	0.0276	13.7026	0.0034	1.7022	0.2908	144.5329	0.0841	41.7840
78	10.2442	1304.1397	0.0492	6.2584	0.0011	0.1401	0.5136	65.3870	0.2158	27.4711
98	8.6632	1620.2915	0.0459	8.5882	0.0000	0.0000	0.3405	63.6918	0.1776	33.2161
112	9.6729	3346.6738	0.0764	26.4338	0.0000	0.0000	0.3870	133.8810	0.1922	66.5132
90	7.5801	964.9860	0.0622	7.9203	0.0012	0.1541	0.4522	57.5734	0.0041	0.5217
102	9.2345	1012.9933	0.0620	6.7995	0.0047	0.5124	0.8297	91.0185	0.2852	31.2848

	Ca3179	Ca3179	Cd2265	Cd2265	Cd2288	Cd2288	Co2286	Co2286	Cr2677	Cr2677
#	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha
1	8.0102	3963.4111	0.0000	0.0000	0.0000	0.0000	0.0043	2.1129	0.0041	2.0367
5	3.0115	2349.4416	0.0003	0.2700	0.0000	0.0000	0.0000	0.0000	0.0006	0.4645
11	0.8831	614.3672	0.0000	0.0000	0.0000	0.0000	0.0002	0.1529	0.0011	0.7921
18	1.2054	425.3194	0.0001	0.0253	0.0000	0.0000	0.0004	0.1354	0.0021	0.7565
19	0.8680	376.6225	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0016	0.6934
23	0.9223	715.4986	0.0000	0.0000	0.0000	0.0000	0.0006	0.4598	0.0020	1.5381
27	0.8663	217.7788	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0014	0.3530
28	1.6174	1103.6579	0.0000	0.0000	0.0001	0.0345	0.0000	0.0228	0.0018	1.1973
35	5.2996	3931.4267	0.0000	0.0000	0.0000	0.0000	0.0028	2.1122	0.0020	1.5203
40	2.9258	1329.0835	0.0006	0.2702	0.0000	0.0000	0.0007	0.3313	0.0005	0.2312
44	1.0593	369.3909	0.0003	0.0964	0.0000	0.0000	0.0010	0.3377	0.0015	0.5134
51	16.8390	1650.8444	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0002	0.0170
55	10.7919	4245.0965	0.0006	0.2211	0.0000	0.0000	0.0020	0.7676	0.0006	0.2356
57	1.8853	1009.2328	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0005	0.2553
61	1.2032	896.3277	0.0000	0.0000	0.0000	0.0000	0.0015	1.1105	0.0017	1.2613
65	11.7742	2245.7608	0.0004	0.0724	0.0000	0.0000	0.0013	0.2539	0.0008	0.1552

	Ca3179	Ca3179	Cd2265	Cd2265	Cd2288	Cd2288	Co2286	Co2286	Cr2677	Cr2677
#	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha
69	11.6485	497.4987	0.0016	0.0692	0.0001	0.0043	0.0022	0.0932	0.0033	0.1402
72	3.4176	61.3702	0.0001	0.0020	0.0000	0.0000	0.0005	0.0090	0.0002	0.0033
75	0.7297	257.4477	0.0000	0.0000	0.0000	0.0000	0.0008	0.2873	0.0006	0.2284
80	0.3961	155.7956	0.0000	0.0000	0.0000	0.0000	0.0023	0.8869	0.0031	1.2177
82	0.2622	59.5646	0.0000	0.0000	0.0000	0.0000	0.0015	0.3425	0.0034	0.7627
84	0.5140	259.0802	0.0000	0.0000	0.0000	0.0000	0.0017	0.8659	0.0029	1.4834
91	0.4220	93.8956	0.0000	0.0000	0.0000	0.0000	0.0008	0.1850	0.0020	0.4560
95	0.5085	694.1551	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0024	3.2686
103	3.7402	426.5790	0.0000	0.0000	0.0000	0.0000	0.0008	0.0953	0.0016	0.1799
105	4.2006	1116.1722	0.0000	0.0000	0.0000	0.0000	0.0055	1.4608	0.0045	1.2004
109	5.1753	7503.7363	0.0000	0.0000	0.0000	0.0000	0.0024	3.5044	0.0018	2.6008
116	4.3909	1185.9221	0.0000	0.0000	0.0000	0.0000	0.0035	0.9500	0.0021	0.5639
121	4.1963	95.7205	0.0000	0.0000	0.0000	0.0000	0.0029	0.0663	0.0023	0.0522
126	3.4996	169.8446	0.0000	0.0000	0.0000	0.0000	0.0034	0.1650	0.0026	0.1263
131	2.5988	679.2011	0.0000	0.0000	0.0000	0.0000	0.0047	1.2402	0.0028	0.7304
9	10.0116	1593.7621	0.0003	0.0477	0.0000	0.0000	0.0000	0.0000	0.0008	0.1330
15	5.9012	4400.8364	0.0004	0.2996	0.0000	0.0000	0.0015	1.0819	0.0008	0.5910
21	1.3660	173.9036	0.0000	0.0047	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
25	1.0937	731.3287	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0006	0.4056
32	5.9906	8867.9693	0.0001	0.0938	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
38	10.7523	3077.9391	0.0000	0.0000	0.0000	0.0000	0.0039	1.1024	0.0021	0.5904
42	4.2499	2750.6826	0.0004	0.2332	0.0000	0.0000	0.0003	0.1829	0.0000	0.0000
47	2.9842	52.5479	0.0003	0.0050	0.0000	0.0008	0.0004	0.0066	0.0010	0.0183
48	4.2147	2858.2447	0.0006	0.3737	0.0000	0.0000	0.0014	0.9570	0.0001	0.0852
50	5.1626	800.9583	0.0002	0.0331	0.0000	0.0000	0.0011	0.1655	0.0000	0.0029
52	2.2504	375.9172	0.0003	0.0543	0.0000	0.0075	0.0015	0.2501	0.0011	0.1802
62	5.3919	470.8694	0.0000	0.0000	0.0000	0.0000	0.0010	0.0860	0.0010	0.0903
67	6.6676	1034.4496	0.0002	0.0297	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
70	5.1220	610.6175	0.0000	0.0000	0.0000	0.0000	0.0019	0.2303	0.0010	0.1206
87	0.4732	1055.6165	0.0000	0.0000	0.0000	0.0000	0.0010	2.2944	0.0021	4.6681
99	0.8592	1068.2946	0.0010	1.2818	0.0011	1.3701	0.0003	0.3324	0.0006	0.7423
104	6.0837	144.7642	0.0001	0.0033	0.0000	0.0000	0.0012	0.0291	0.0013	0.0306
106	12.9491	246.5030	0.0000	0.0000	0.0000	0.0000	0.0050	0.0955	0.0025	0.0471
113	6.7425	4396.0494	0.0000	0.0000	0.0000	0.0000	0.0046	3.0120	0.0035	2.2937
119	1.9403	274.7141	0.0000	0.0000	0.0000	0.0000	0.0033	0.4671	0.0021	0.2963
124	1.0615	84.3659	0.0000	0.0000	0.0000	0.0000	0.0042	0.3338	0.0024	0.1937
129	0.8832	27.5298	0.0000	0.0000	0.0000	0.0000	0.0038	0.1176	0.0035	0.1082
6	20.9008	253.6444	0.0000	0.0000	0.0000	0.0000	0.0016	0.0192	0.0021	0.0253
12	19.9739	6910.6506	0.0000	0.0020	0.0000	0.0000	0.0002	0.0661	0.0001	0.0173
29	7.9666	6405.5171	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0013	1.0096
36	10.6715	7249.7595	0.0000	0.0000	0.0000	0.0000	0.0034	2.3218	0.0045	3.0436
46	12.5165	59.5669	0.0010	0.0049	0.0002	0.0009	0.0018	0.0086	0.0002	0.0007
76	29.3317	1430.8159	0.0006	0.0311	0.0000	0.0000	0.0025	0.1237	0.0013	0.0614
85	24.6445	3137.3675	0.0005	0.0696	0.0000	0.0000	0.0015	0.1891	0.0000	0.0000
96	6.4694	10580.4578	0.0000	0.0000	0.0000	0.0000	0.0016	2.5849	0.0014	2.2875

	Ca3179	Ca3179	Cd2265	Cd2265	Cd2288	Cd2288	Co2286	Co2286	Cr2677	Cr2677
#	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha
110	7.3866	7478.8600	0.0000	0.0000	0.0000	0.0000	0.0036	3.6802	0.0028	2.7871
117	1.9824	217.4635	0.0000	0.0000	0.0000	0.0000	0.0027	0.2970	0.0020	0.2214
122	2.4776	14.7390	0.0000	0.0000	0.0000	0.0000	0.0036	0.0214	0.0040	0.0238
132	1.2760	40.9896	0.0000	0.0000	0.0000	0.0000	0.0034	0.1085	0.0038	0.1225
127	1.0403	706.0084	0.0000	0.0000	0.0000	0.0000	0.0021	1.4259	0.0035	2.3982
3	7.3547	411.2676	0.0000	0.0000	0.0000	0.0000	0.0005	0.0269	0.0000	0.0011
16	15.9233	2341.6068	0.0008	0.1105	0.0003	0.0389	0.0008	0.1205	0.0010	0.1487
33	10.9045	13902.7597	0.0002	0.2930	0.0002	0.2546	0.0000	0.0000	0.0002	0.2270
53	12.9174	2877.0195	0.0005	0.1044	0.0000	0.0000	0.0004	0.0843	0.0004	0.0921
59	0.8068	295.2577	0.0000	0.0110	0.0000	0.0000	0.0008	0.2847	0.0009	0.3353
63	19.7502	3614.0220	0.0000	0.0084	0.0000	0.0000	0.0002	0.0368	0.0000	0.0000
88	4.0515	2430.3962	0.0000	0.0000	0.0000	0.0000	0.0001	0.0473	0.0004	0.2584
93	5.2674	459.9989	0.0012	0.1091	0.0000	0.0000	0.0022	0.1912	0.0035	0.3038
100	2.9744	2852.3199	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0010	0.9182
107	3.9255	1655.1853	0.0000	0.0000	0.0000	0.0000	0.0049	2.0616	0.0036	1.5182
114	5.0410	1744.1240	0.0000	0.0000	0.0000	0.0000	0.0037	1.2969	0.0031	1.0631
2	8.9524	6081.9048	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	9.2016	6807.3173	0.0003	0.2542	0.0000	0.0000	0.0012	0.8775	0.0007	0.5542
13	6.5640	5152.8041	0.0006	0.4518	0.0000	0.0000	0.0000	0.0000	0.0003	0.2361
20	8.4721	3100.5561	0.0007	0.2388	0.0006	0.2230	0.0000	0.0000	0.0000	0.0000
24	4.2153	3270.9278	0.0001	0.0690	0.0000	0.0000	0.0005	0.3796	0.0000	0.0000
30	5.9577	16403.5738	0.0005	1.3060	0.0000	0.0000	0.0015	4.0888	0.0013	3.5485
37	5.1406	3698.9950	0.0000	0.0000	0.0000	0.0000	0.0038	2.7329	0.0027	1.9117
41	2.3458	1777.8302	0.0003	0.2569	0.0000	0.0000	0.0001	0.0926	0.0005	0.3549
58	3.2279	1437.8770	0.0001	0.0226	0.0000	0.0000	0.0015	0.6463	0.0000	0.0000
66	4.9219	330.2747	0.0007	0.0452	0.0002	0.0145	0.0023	0.1523	0.0014	0.0953
73	9.4845	397.2113	0.0001	0.0030	0.0002	0.0083	0.0025	0.1042	0.0022	0.0937
77	9.6321	7116.6154	0.0004	0.2978	0.0001	0.0632	0.0037	2.7160	0.0015	1.1410
81	20.3515	3239.7813	0.0009	0.1486	0.0000	0.0000	0.0074	1.1806	0.0042	0.6687
83	19.3038	1984.3516	0.0007	0.0768	0.0001	0.0067	0.0060	0.6200	0.0005	0.0509
86	7.2320	6465.3799	0.0000	0.0000	0.0000	0.0000	0.0050	4.5079	0.0023	2.0165
92	11.9930	1535.3311	0.0007	0.0929	0.0000	0.0000	0.0034	0.4380	0.0000	0.0000
97	4.4415	7530.1652	0.0000	0.0000	0.0000	0.0000	0.0025	4.2889	0.0020	3.3368
111	4.2473	8464.1891	0.0000	0.0000	0.0000	0.0000	0.0055	11.0038	0.0027	5.2898
118	3.0212	1223.5844	0.0000	0.0000	0.0000	0.0000	0.0072	2.9338	0.0055	2.2401
123	3.1740	75.5255	0.0000	0.0000	0.0000	0.0000	0.0060	0.1438	0.0026	0.0626
133	2.4933	118.6567	0.0000	0.0000	0.0000	0.0000	0.0033	0.1594	0.0022	0.1040
128	2.4558	420.7400	0.0000	0.0000	0.0000	0.0000	0.0050	0.8610	0.0025	0.4202
4	1.9809	488.3214	0.0002	0.0424	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	6.8895	5736.1756	0.0005	0.4279	0.0000	0.0000	0.0030	2.4874	0.0009	0.7215
17	4.9457	4142.4849	0.0001	0.0620	0.0000	0.0000	0.0010	0.8596	0.0000	0.0000
22	3.0628	2203.2040	0.0004	0.2996	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
26	2.4535	1543.5942	0.0001	0.0883	0.0000	0.0000	0.0035	2.2037	0.0027	1.7189
34	2.4882	1967.4891	0.0000	0.0000	0.0000	0.0000	0.0010	0.7730	0.0009	0.6733
39	2.0349	825.5943	0.0000	0.0000	0.0000	0.0000	0.0047	1.8931	0.0033	1.3418

	Ca3179	Ca3179	Cd2265	Cd2265	Cd2288	Cd2288	Co2286	Co2286	Cr2677	Cr2677
#	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha
43	1.7702	1243.0628	0.0000	0.0000	0.0000	0.0000	0.0029	2.0689	0.0023	1.6493
49	1.2723	862.8486	0.0005	0.3283	0.0000	0.0000	0.0006	0.4275	0.0000	0.0000
54	0.9064	951.3571	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
56	0.7058	230.2506	0.0000	0.0000	0.0000	0.0000	0.0013	0.4308	0.0006	0.1858
60	0.8018	619.2848	0.0000	0.0000	0.0000	0.0000	0.0003	0.1995	0.0004	0.2708
64	1.1589	847.9416	0.0006	0.4159	0.0000	0.0000	0.0014	0.9991	0.0000	0.0251
68	1.7214	890.0754	0.0002	0.0989	0.0000	0.0000	0.0013	0.6941	0.0005	0.2429
71	2.0924	740.8627	0.0000	0.0000	0.0000	0.0000	0.0022	0.7679	0.0002	0.0541
74	6.6225	3608.6697	0.0008	0.4312	0.0008	0.4313	0.0055	2.9933	0.0015	0.8251
79	4.0778	3444.6376	0.0000	0.0377	0.0000	0.0000	0.0034	2.8442	0.0004	0.3787
89	0.9616	1710.4031	0.0000	0.0000	0.0000	0.0000	0.0018	3.2756	0.0015	2.5864
94	0.7417	193.2617	0.0000	0.0000	0.0000	0.0000	0.0006	0.1540	0.0001	0.0323
101	0.5340	632.1742	0.0000	0.0000	0.0000	0.0000	0.0005	0.6065	0.0006	0.7298
108	1.9174	1927.7045	0.0000	0.0000	0.0000	0.0000	0.0044	4.4682	0.0025	2.5396
115	1.3759	2430.8806	0.0000	0.0000	0.0000	0.0000	0.0037	6.5780	0.0019	3.4128
120	0.9688	38.0384	0.0000	0.0000	0.0000	0.0000	0.0040	0.1571	0.0027	0.1057
125	1.0376	146.9110	0.0000	0.0000	0.0000	0.0000	0.0046	0.6448	0.0025	0.3587
130	1.5031	10.0144	0.0000	0.0000	0.0000	0.0000	0.0068	0.0450	0.0059	0.0393
14	3.7010	323.2020	0.0000	0.0000	0.0000	0.0000	0.0032	0.2756	0.0040	0.3535
31	5.6069	2787.1162	0.0004	0.2213	0.0000	0.0000	0.0002	0.1017	0.0009	0.4314
78	6.6138	841.9696	0.0000	0.0000	0.0000	0.0000	0.0004	0.0530	0.0000	0.0000
98	11.2316	2100.6586	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
112	10.5412	3647.0965	0.0000	0.0000	0.0000	0.0000	0.0031	1.0872	0.0029	0.9918
90	5.3639	682.8535	0.0000	0.0000	0.0000	0.0000	0.0008	0.0968	0.0014	0.1721
102	13.5427	1485.5865	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

	Cu3247	Cu3247	Fe2599	Fe2599	Fe2714	Fe2714	K_7664	K_7664
#	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha
1	0.0005	0.2357	0.1098	54.3096	0.1633	80.7870	5.0532	2500.2891
5	0.0000	0.0000	0.8278	645.8074	0.8237	642.5977	1.7990	1403.5612
11	0.0000	0.0000	0.4242	295.1265	0.4105	285.6005	1.3860	964.2729
18	0.0000	0.0000	1.4675	517.7749	1.4650	516.8920	1.4460	510.2154
19	0.0000	0.0000	1.2186	528.7313	1.2197	529.2300	1.8205	789.8693
23	0.0000	0.0000	1.1362	881.4559	1.1376	882.5457	1.7136	1329.3850
27	0.0000	0.0000	0.9447	237.4953	0.9394	236.1625	5.8648	1474.4203
28	0.0000	0.0000	0.2487	169.7332	0.2551	174.0489	2.8010	1911.3009
35	0.0168	12.4662	0.0172	12.7844	0.0833	61.8064	4.3688	3240.9234
40	0.0000	0.0000	0.0674	30.6304	0.0653	29.6844	3.8234	1736.8578
44	0.0000	0.0000	0.7505	261.7162	0.7176	250.2296	3.7222	1297.9548
51	0.0000	0.0000	0.0014	0.1346	0.0000	0.0000	6.0082	589.0283
55	0.0000	0.0000	0.0170	6.6791	0.0167	6.5709	9.0535	3561.3005
57	0.0000	0.0000	0.3171	169.7302	0.2817	150.8149	5.4688	2927.5766
61	0.0000	0.0000	0.5868	437.1668	0.5923	441.2541	3.6036	2684.6512
65	0.0000	0.0000	0.0099	1.8911	0.0000	0.0000	4.7830	912.2875
69	0.0000	0.0000	0.0123	0.5248	0.0073	0.3097	7.1261	304.3485

	Cu3247	Cu3247	Fe2599	Fe2599	Fe2714	Fe2714	K_7664	K_7664
#	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha
72	0.0000	0.0000	0.0096	0.1731	0.0000	0.0000	3.1718	56.9560
75	0.0000	0.0000	0.4465	157.5319	0.4387	154.8029	1.9820	699.3091
80	0.0000	0.0000	0.8779	345.3178	0.9047	355.8631	1.7412	684.9019
82	0.0000	0.0000	0.9633	218.8088	1.0070	228.7255	2.4328	552.5683
84	0.0000	0.0000	0.7289	367.3680	0.7544	380.2494	2.4619	1240.8156
91	0.0000	0.0000	0.8211	182.7177	0.8488	188.8714	2.1945	488.3319
95	0.0941	128.4650	0.7236	987.7500	0.7380	1007.3825	2.5658	3502.2975
103	0.0000	0.0000	0.1096	12.4971	0.1298	14.8065	10.6403	1213.5583
105	0.0148	3.9290	0.0816	21.6729	0.1692	44.9581	7.9048	2100.4471
109	0.0118	17.0991	0.0019	2.6932	0.0578	83.7912	4.5417	6585.1662
116	0.0141	3.7975	0.0000	0.0000	0.0476	12.8617	4.3644	1178.7559
121	0.0123	0.2795	0.0000	0.0000	0.0455	1.0373	4.8570	110.7900
126	0.0108	0.5252	0.0000	0.0000	0.0471	2.2859	3.6115	175.2784
131	0.0133	3.4636	0.0436	11.4010	0.0988	25.8172	3.8157	997.2340
9	0.0000	0.0000	0.0049	0.7749	0.0000	0.0000	10.1345	1613.3245
15	0.0000	0.0000	0.0110	8.1935	0.0155	11.5942	6.9952	5216.6159
21	0.0000	0.0000	0.2310	29.4093	0.2003	25.5051	2.0172	256.7999
25	0.0000	0.0000	0.5751	384.5195	0.5648	377.6674	2.0339	1359.9816
32	0.0172	25.4052	0.0038	5.6987	0.0000	0.0000	16.7069	24731.3824
38	0.0272	7.7840	0.0046	1.3207	0.0525	15.0401	23.9463	6854.8335
42	0.0000	0.0000	0.0026	1.7120	0.0000	0.0000	10.7785	6976.2189
47	0.0000	0.0000	0.0033	0.0576	0.0187	0.3286	6.9316	122.0554
48	0.0000	0.0000	0.0017	1.1857	0.0000	0.0000	8.6020	5833.5662
50	0.0000	0.0000	0.0033	0.5061	0.0078	1.2131	8.6655	1344.4109
52	0.0000	0.0000	0.0009	0.1549	0.0000	0.0000	4.6588	778.2233
62	0.0000	0.0000	0.0018	0.1600	0.0198	1.7268	7.6580	668.7671
67	0.0000	0.0000	0.0004	0.0669	0.0000	0.0000	8.0529	1249.3716
70	0.0007	0.0785	0.0000	0.0000	0.0163	1.9452	8.0546	960.2268
87	0.0000	0.0000	0.4380	977.0211	0.4510	1006.0521	3.3783	7536.4162
99	0.0000	0.0000	0.5195	645.9280	0.4927	612.5659	4.3329	5387.1360
104	0.0000	0.0000	0.0027	0.0632	0.0074	0.1770	17.6886	420.9074
106	0.0180	0.3422	0.0123	0.2340	0.0521	0.9920	18.3032	348.4257
113	0.0171	11.1685	0.0060	3.9364	0.0730	47.6222	15.9613	10406.6649
119	0.0135	1.9167	0.0053	0.7552	0.0613	8.6810	8.8697	1255.7932
124	0.0135	1.0707	0.0003	0.0243	0.0445	3.5330	6.6025	524.7470
129	0.0109	0.3390	0.1069	3.3311	0.1666	5.1923	7.7710	242.2382
6	0.0133	0.1619	0.0041	0.0498	0.0325	0.3939	6.1194	74.2633
12	0.0000	0.0000	0.0016	0.5653	0.0000	0.0000	2.8983	1002.7589
29	0.0000	0.0000	1.1208	901.1460	1.1013	885.4976	7.6469	6148.4568
36	0.0132	8.9497	1.3434	912.6754	1.3587	923.0677	8.5783	5827.7163
46	0.0087	0.0415	0.0289	0.1377	0.0268	0.1276	6.8774	32.7302
76	0.0000	0.0000	0.0010	0.0483	0.0158	0.7694	11.1196	542.4180
85	0.0000	0.0000	0.0021	0.2630	0.0000	0.0000	10.8402	1380.0185
96	0.0000	0.0000	0.0318	52.0759	0.0381	62.3569	3.9696	6492.0691
110	0.0099	9.9822	0.0000	0.0000	0.0581	58.8759	5.4917	5560.3375

	Cu3247	Cu3247	Fe2599	Fe2599	Fe2714	Fe2714	K_7664	K_7664
#	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha
117	0.0101	1.1042	0.0332	3.6451	0.0451	4.9450	3.3336	365.6803
122	0.0129	0.0765	0.0003	0.0018	0.0504	0.2999	1.9211	11.4282
132	0.0103	0.3296	0.4425	14.2161	0.4892	15.7145	2.4794	79.6478
127	0.0123	8.3328	0.4132	280.4388	0.4471	303.4097	3.9559	2684.6637
3	0.0000	0.0000	0.0035	0.1957	0.0000	0.0000	5.9286	331.5240
16	0.0000	0.0000	0.0009	0.1390	0.0000	0.0000	5.5849	821.2958
33	0.0000	0.0000	0.0062	7.8590	0.0000	0.0000	11.5830	14767.8377
53	0.0000	0.0000	0.0549	12.2339	0.0611	13.6155	12.0052	2673.8602
59	0.0000	0.0000	0.0045	1.6478	0.0000	0.0000	6.3097	2309.1804
63	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	10.4748	1916.7502
88	0.0000	0.0000	0.0046	2.7594	0.0036	2.1808	3.8205	2291.8240
93	0.0155	1.3565	0.0103	0.9005	0.0564	4.9215	5.9920	523.2725
100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3.6793	3528.2646
107	0.0178	7.5176	0.0013	0.5581	0.0598	25.2125	6.2118	2619.2473
114	0.0145	5.0132	0.0000	0.0000	0.0476	16.4760	4.2398	1466.9099
2	0.0000	0.0000	0.0019	1.2618	0.0000	0.0000	14.0638	9554.3252
7	0.0002	0.1425	0.0046	3.4165	0.0000	0.0000	11.6694	8633.0324
13	0.0000	0.0000	0.0070	5.5137	0.0002	0.1327	9.5385	7487.7992
20	0.0000	0.0000	0.0071	2.5948	0.0000	0.0000	7.3447	2687.9624
24	0.0000	0.0000	0.0076	5.8954	0.0115	8.9110	6.9304	5377.7526
30	0.0000	0.0000	0.0179	49.2907	0.0191	52.6835	15.8991	43775.9133
37	0.0277	19.9252	0.0153	11.0419	0.0592	42.5782	15.7058	11301.4835
41	0.0000	0.0000	0.0044	3.3561	0.0000	0.0000	9.1868	6962.4998
58	0.0000	0.0000	0.0138	6.1608	0.0178	7.9192	11.2444	5008.8070
66	0.0000	0.0000	0.0117	0.7826	0.0180	1.2051	11.0343	740.4357
73	0.0000	0.0000	0.0016	0.0690	0.0141	0.5922	12.4403	520.9985
77	0.0038	2.8174	0.0091	6.7408	0.0272	20.0926	15.1978	11228.8249
81	0.0031	0.4930	0.0220	3.5067	0.0584	9.2900	23.4069	3726.1723
83	0.0000	0.0000	0.0155	1.5943	0.0000	0.0000	22.8911	2353.1108
86	0.0000	0.0000	0.0123	11.0395	0.0459	41.0527	14.2882	12773.5549
92	0.0025	0.3160	0.0136	1.7399	0.0000	0.0000	19.0908	2443.9816
97	0.0000	0.0000	0.0122	20.6182	0.0458	77.5719	13.9115	23585.8847
111	0.0126	25.1532	0.0115	22.8340	0.0820	163.4600	15.3629	30616.1567
118	0.0165	6.6922	0.0059	2.3896	0.0870	35.2477	11.4923	4654.3431
123	0.0137	0.3252	0.0053	0.1264	0.0698	1.6616	11.7597	279.8270
133	0.0116	0.5500	0.0049	0.2319	0.0439	2.0877	10.9936	523.1953
128	0.0147	2.5210	0.0070	1.1913	0.0395	6.7697	11.4966	1969.6765
4	0.0000	0.0000	0.0004	0.1005	0.0000	0.0000	9.4506	2329.7574
10	0.0084	7.0087	0.0057	4.7426	0.0086	7.1793	20.1149	16747.6423
17	0.0000	0.0000	0.0079	6.5954	0.0000	0.0000	14.9492	12521.4179
22	0.0000	0.0000	0.0129	9.2551	0.0000	0.0000	10.4451	7513.5183
26	0.0010	0.6537	0.0271	17.0803	0.0675	42.4748	10.3026	6481.8704
34	0.0004	0.3034	0.0173	13.6606	0.0245	19.4119	13.6286	10776.3809
39	0.0284	11.5160	0.0074	3.0096	0.0673	27.3178	12.1925	4946.6129
43	0.0000	0.0000	0.0156	10.9343	0.0519	36.4378	11.7575	8256.1501

	Cu3247	Cu3247	Fe2599	Fe2599	Fe2714	Fe2714	K_7664	K_7664
#	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha
49	0.0000	0.0000	0.0108	7.3212	0.0000	0.0000	8.7742	5950.3501
54	0.0000	0.0000	0.0066	6.9465	0.0000	0.0000	6.1084	6411.4341
56	0.0000	0.0000	0.0010	0.3330	0.0000	0.0000	5.3332	1739.8657
60	0.0000	0.0000	0.0039	2.9875	0.0000	0.0000	6.3480	4903.1728
64	0.0000	0.0000	0.0043	3.1806	0.0083	6.1060	7.3393	5370.2089
68	0.0000	0.0000	0.0042	2.1919	0.0024	1.2194	9.3794	4849.8271
71	0.0000	0.0000	0.0089	3.1458	0.0000	0.0000	11.3105	4004.7727
74	0.0000	0.0000	0.0139	7.5678	0.0065	3.5565	29.3135	15973.3500
79	0.0009	0.7475	0.0117	9.8959	0.0047	3.9819	19.5835	16542.8609
89	0.0000	0.0000	0.0140	24.9177	0.0394	70.1081	8.7869	15629.3323
94	0.0347	9.0526	0.0054	1.3977	0.0000	0.0000	6.0345	1572.3430
101	0.0000	0.0000	0.0099	11.7724	0.0082	9.6879	7.0523	8348.6426
108	0.0140	14.1154	0.0055	5.5129	0.0306	30.7289	8.7629	8809.7931
115	0.0128	22.6415	0.0085	14.9698	0.0439	77.5493	9.5454	16864.8215
120	0.0126	0.4956	0.0067	0.2646	0.0463	1.8189	8.1643	320.5508
125	0.0145	2.0494	0.0099	1.4062	0.0416	5.8838	8.8332	1250.6270
130	0.0176	0.1173	0.0099	0.0658	0.0920	0.6129	7.5093	50.0324
14	0.0000	0.0000	0.0394	3.4422	0.0749	6.5417	2.9989	261.8871
31	0.0000	0.0000	0.0015	0.7455	0.0000	0.0000	2.8457	1414.5362
78	0.0000	0.0000	0.0057	0.7236	0.0000	0.0000	6.2452	795.0477
98	0.0000	0.0000	0.0002	0.0412	0.0000	0.0000	5.7811	1081.2487
112	0.0097	3.3568	0.0124	4.2788	0.0624	21.5771	4.4744	1548.0776
90	0.0000	0.0000	0.0050	0.6388	0.0289	3.6781	6.2676	797.8963
102	0.0000	0.0000	0.0048	0.5307	0.0000	0.0000	6.2424	684.7678

	Mg2790	Mg2790	Mn2576	Mn2576	Mo2020	Mo2020	Na5889	Na5889
#	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha
1	3.4998	1731.6953	0.0022	1.0673	0.0000	0.0000	3.8943	1926.8798
5	1.1408	890.0324	0.0048	3.7664	0.0000	0.0000	0.9516	742.4192
11	0.2732	190.0593	0.0036	2.5019	0.0000	0.0000	0.8902	619.3485
18	0.4097	144.5606	0.0060	2.1288	0.0000	0.0000	0.7838	276.5627
19	0.2393	103.8275	0.0035	1.5373	0.0013	0.5762	1.0813	469.1419
23	0.2382	184.7798	0.0040	3.0963	0.0000	0.0000	0.9038	701.1340
27	0.2586	65.0176	0.0042	1.0610	0.0000	0.0000	1.3423	337.4547
28	0.6474	441.7713	0.0077	5.2739	0.0028	1.9272	1.0488	715.6997
35	2.1877	1622.9153	0.0290	21.5164	0.0000	0.0000	0.7913	586.9887
40	1.3235	601.2219	0.0302	13.7297	0.0000	0.0000	1.1105	504.4881
44	0.5017	174.9572	0.0197	6.8838	0.0000	0.0000	1.1836	412.7463
51	10.0240	982.7255	0.0434	4.2575	0.0028	0.2775	11.9482	1171.3601
55	4.6983	1848.1366	0.1475	58.0051	0.0000	0.0000	1.9247	757.1030
57	0.6772	362.5284	0.0189	10.0922	0.0000	0.0000	1.5539	831.8333
61	0.5061	377.0496	0.0138	10.2815	0.0000	0.0000	1.3397	998.0685
65	4.4831	855.0757	0.0963	18.3586	0.0000	0.0000	2.2396	427.1673
69	4.6068	196.7514	0.0883	3.7699	0.0033	0.1403	4.4067	188.2042

	Mg2790	Mg2790	Mn2576	Mn2576	Mo2020	Mo2020	Na5889	Na5889
#	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha
72	1.2327	22.1350	0.0212	0.3812	0.0000	0.0000	2.6406	47.4186
75	0.2552	90.0600	0.0056	1.9672	0.0000	0.0000	1.4135	498.7444
80	0.0979	38.5137	0.0039	1.5297	0.0000	0.0000	1.0573	415.9016
82	0.0820	18.6204	0.0039	0.8839	0.0000	0.0000	1.2658	287.5129
84	0.1655	83.4053	0.0050	2.5073	0.0000	0.0000	1.3442	677.5010
91	0.1167	25.9763	0.0032	0.7060	0.0000	0.0000	1.2694	282.4645
95	0.1517	207.0078	0.0044	5.9454	0.0000	0.0000	0.8863	1209.7633
103	1.3804	157.4358	0.0229	2.6062	0.0000	0.0000	2.7053	308.5519
105	1.4826	393.9421	0.0323	8.5755	0.0000	0.0000	1.3634	362.2692
109	1.7326	2512.1156	0.0504	73.0307	0.0015	2.1922	1.0880	1577.5768
116	1.4892	402.2208	0.0523	14.1339	0.0041	1.1195	1.0572	285.5464
121	1.4595	33.2925	0.0550	1.2547	0.0000	0.0000	2.3843	54.3865
126	1.0844	52.6296	0.0297	1.4426	0.0000	0.0000	2.2491	109.1536
131	0.8260	215.8775	0.0240	6.2729	0.0000	0.0000	1.3085	341.9793
9	3.7464	596.3899	0.0366	5.8327	0.0000	0.0000	2.1018	334.5860
15	2.4957	1861.1701	0.0682	50.8230	0.0007	0.4952	0.9460	705.4533
21	0.4824	61.4097	0.0027	0.3462	0.0002	0.0222	1.1412	145.2796
25	0.3052	204.0490	0.0028	1.8673	0.0000	0.0000	0.8739	584.3534
32	2.4496	3626.2271	0.0703	104.1323	0.0000	0.0000	1.9995	2959.9111
38	4.2083	1204.6725	0.1346	38.5315	0.0000	0.0000	2.1582	617.8045
42	1.7364	1123.8284	0.0605	39.1788	0.0000	0.0000	1.0874	703.7812
47	1.3044	22.9682	0.0275	0.4834	0.0000	0.0000	3.2864	57.8683
48	2.2681	1538.1782	0.0715	48.5131	0.0005	0.3600	1.8951	1285.1971
50	2.5027	388.2801	0.0898	13.9320	0.0000	0.0000	2.4162	374.8676
52	1.0008	167.1839	0.0348	5.8214	0.0000	0.0000	2.3063	385.2602
62	2.5379	221.6284	0.0514	4.4849	0.0000	0.0000	1.9104	166.8338
67	3.0599	474.7264	0.0617	9.5669	0.0000	0.0000	1.7819	276.4523
70	2.1913	261.2363	0.0551	6.5633	0.0000	0.0000	1.5107	180.1026
87	0.2133	475.8886	0.0049	10.9744	0.0009	1.9496	1.2414	2769.2564
99	0.3684	458.0422	0.0076	9.4973	0.0059	7.3415	1.1915	1481.3765
104	2.4267	57.7436	0.0693	1.6492	0.0000	0.0000	2.4041	57.2067
106	5.6921	108.3569	0.1974	3.7571	0.0000	0.0000	4.8283	91.9131
113	3.3907	2210.7364	0.1441	93.9496	0.0013	0.8703	1.4179	924.4644
119	0.9850	139.4553	0.0494	6.9920	0.0000	0.0000	1.8233	258.1423
124	0.5674	45.0973	0.0257	2.0461	0.0000	0.0000	1.5393	122.3392
129	0.4625	14.4173	0.0182	0.5672	0.0000	0.0000	2.0657	64.3909
6	11.2049	135.9785	0.0056	0.0675	0.0000	0.0000	48.2653	585.7299
12	8.1204	2809.5331	0.0352	12.1827	0.0033	1.1542	4.3446	1503.1706
29	2.9917	2405.4674	0.0196	15.7193	0.0023	1.8451	4.2418	3410.6238
36	4.3312	2942.4510	0.0359	24.3721	0.0026	1.7570	2.2416	1522.8642
46	6.4346	30.6228	0.0767	0.3650	0.0040	0.0189	6.6626	31.7080
76	13.0799	638.0430	0.2379	11.6060	0.0000	0.0000	13.7540	670.9288
85	9.9158	1262.3365	0.1742	22.1827	0.0000	0.0000	7.0534	897.9341
96	2.3807	3893.4847	0.0518	84.7116	0.0000	0.0000	2.0343	3326.9645
110	2.8927	2928.8327	0.0741	75.0689	0.0000	0.0000	1.0951	1108.7477

	Mg2790	Mg2790	Mn2576	Mn2576	Mo2020	Mo2020	Na5889	Na5889
#	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha
117	0.7253	79.5675	0.0178	1.9507	0.0039	0.4277	1.7184	188.5077
122	0.7540	4.4856	0.0281	0.1670	0.0000	0.0000	2.7149	16.1508
132	0.3289	10.5667	0.0088	0.2832	0.0000	0.0000	1.1158	35.8431
127	0.3348	227.2213	0.0076	5.1637	0.0000	0.0000	0.6901	468.3140
3	3.1714	177.3415	0.0005	0.0253	0.0029	0.1608	11.7310	655.9857
16	6.0015	882.5581	0.0030	0.4352	0.0000	0.0000	6.7156	987.5626
33	3.5978	4586.9901	0.0314	40.0520	0.0015	1.9354	2.6333	3357.3271
53	4.9223	1096.3117	0.0690	15.3734	0.0000	0.0079	11.1301	2478.9466
59	0.6649	243.3258	0.0218	7.9735	0.0000	0.0000	1.4510	531.0427
63	6.7379	1232.9476	0.1258	23.0176	0.0000	0.0000	3.4425	629.9250
88	1.2702	761.9819	0.0219	13.1307	0.0000	0.0000	1.8209	1092.3001
93	1.5956	139.3403	0.0314	2.7410	0.0032	0.2779	1.6107	140.6633
100	0.7986	765.8374	0.0203	19.4570	0.0000	0.0000	1.1689	1120.9609
107	1.1954	504.0632	0.0485	20.4567	0.0000	0.0000	1.3941	587.8115
114	1.6527	571.8258	0.0407	14.0697	0.0002	0.0851	1.4335	495.9584
2	5.5575	3775.5538	0.0556	37.7723	0.0000	0.0000	1.6355	1111.1174
7	5.9667	4414.1373	0.0677	50.1149	0.0028	2.1081	1.4884	1101.1418
13	4.1139	3229.4317	0.0539	42.3291	0.0000	0.0000	1.4533	1140.8554
20	5.7636	2109.3189	0.0659	24.1327	0.0045	1.6499	1.3580	497.0053
24	2.5637	1989.3720	0.0383	29.7404	0.0000	0.0000	0.9532	739.6421
30	3.9727	10938.2353	0.0521	143.3393	0.0000	0.0000	1.9906	5480.8593
37	3.3681	2423.6189	0.0518	37.2937	0.0000	0.0000	1.1316	814.3011
41	1.4174	1074.2373	0.0276	20.9482	0.0000	0.0000	1.2497	947.0884
58	1.8253	813.0958	0.0556	24.7629	0.0000	0.0000	3.5596	1585.6406
66	2.6182	175.6902	0.0972	6.5201	0.0048	0.3228	3.5991	241.5122
73	6.3092	264.2280	0.1762	7.3786	0.0000	0.0000	6.5625	274.8353
77	7.5815	5601.5581	0.1822	134.6033	0.0000	0.0000	2.0118	1486.4398
81	15.8983	2530.8619	0.3814	60.7149	0.0000	0.0000	2.2507	358.2863
83	13.6955	1407.8381	0.3731	38.3492	0.0000	0.0000	1.7939	184.4089
86	4.5885	4102.1131	0.1366	122.0953	0.0000	0.0000	1.1316	1011.6551
92	7.2304	925.6323	0.2334	29.8745	0.0000	0.0000	1.2763	163.3902
97	2.3935	4057.9522	0.0841	142.5157	0.0000	0.0000	1.2644	2143.6288
111	2.4174	4817.4759	0.0647	128.8747	0.0000	0.0000	1.3080	2606.6342
118	1.7916	725.6083	0.0429	17.3577	0.0000	0.0000	1.0987	444.9643
123	1.9724	46.9342	0.0503	1.1970	0.0000	0.0000	1.7036	40.5371
133	1.5768	75.0416	0.0357	1.6975	0.0000	0.0000	1.6282	77.4894
128	1.3973	239.3951	0.0404	6.9242	0.0018	0.3028	1.2986	222.4901
4	1.4201	350.0738	0.0268	6.6140	0.0028	0.6917	2.0241	498.9713
10	6.9868	5817.1737	0.1473	122.6580	0.0000	0.0000	2.0003	1665.4541
17	4.3420	3636.8759	0.1148	96.1415	0.0000	0.0000	1.3909	1165.0040
22	2.6973	1940.2841	0.0783	56.3315	0.0000	0.0000	1.5275	1098.7969
26	1.8481	1162.7436	0.0653	41.0939	0.0000	0.0000	1.2645	795.5642
34	1.9120	1511.8667	0.0652	51.5546	0.0000	0.0000	1.9568	1547.2891
39	1.8329	743.6148	0.0595	24.1400	0.0000	0.0000	0.9994	405.4536
43	1.2963	910.2908	0.0422	29.6282	0.0000	0.0000	1.1461	804.7766

	Mg2790	Mg2790	Mn2576	Mn2576	Mo2020	Mo2020	Na5889	Na5889
#	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha
49	1.0383	704.1372	0.0383	25.9882	0.0000	0.0000	2.4935	1691.0025
54	0.6595	692.2034	0.0262	27.4978	0.0000	0.0000	1.6470	1728.6764
56	0.5139	167.6615	0.0197	6.4195	0.0000	0.0000	1.5390	502.0675
60	0.6625	511.6821	0.0218	16.8365	0.0017	1.2936	1.5955	1232.3923
64	0.9819	718.4433	0.0301	22.0133	0.0000	0.0000	1.6313	1193.6386
68	1.6426	849.3468	0.0475	24.5540	0.0000	0.0000	1.4872	768.9725
71	1.9931	705.7221	0.0583	20.6270	0.0000	0.0000	1.6620	588.4626
74	6.8609	3738.5907	0.2182	118.8884	0.0000	0.0000	2.5967	1414.9939
79	2.8702	2424.5382	0.1306	110.3277	0.0000	0.0000	1.8011	1521.4491
89	0.4989	887.4008	0.0285	50.7122	0.0000	0.0000	1.2740	2266.1466
94	0.3316	86.3925	0.0181	4.7249	0.0000	0.0000	1.0625	276.8444
101	0.2369	280.4855	0.0153	18.1506	0.0001	0.0837	1.1201	1326.0099
108	1.4826	1490.5770	0.0733	73.6770	0.0000	0.0000	1.3384	1345.6067
115	0.8955	1582.1475	0.0493	87.1533	0.0000	0.0000	1.5453	2730.2756
120	0.5722	22.4670	0.0351	1.3795	0.0000	0.0000	1.6492	64.7513
125	0.6186	87.5769	0.0367	5.2010	0.0000	0.0000	1.3581	192.2861
130	0.7693	5.1259	0.0406	0.2705	0.0000	0.0000	1.6338	10.8855
14	1.2961	113.1828	0.0027	0.2384	0.0000	0.0000	9.2408	806.9891
31	2.1250	1056.3192	0.0006	0.3171	0.0005	0.2281	5.5191	2743.4590
78	1.9768	251.6549	0.0011	0.1436	0.0000	0.0000	14.0103	1783.5883
98	3.8031	711.3025	0.0007	0.1249	0.0000	0.0000	3.0222	565.2535
112	3.9859	1379.0670	0.0016	0.5564	0.0000	0.0000	4.6033	1592.6589
90	1.5882	202.1814	0.0005	0.0633	0.0000	0.0000	25.6714	3268.0995
102	4.4664	489.9544	0.0010	0.1116	0.0010	0.1047	6.5246	715.7246

	Ni2316	Ni2316	P_2149	P_2149	Pb2203	Pb2203	S_1820	S_1820
#	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha
1	0.0000	0.0000	0.1114	55.1241	0.0000	0.0000	0.4518	223.5682
5	0.0022	1.7417	0.0375	29.2855	0.0037	2.9115	0.1996	155.6846
11	0.0000	0.0000	0.0080	5.5931	0.0000	0.0000	0.0986	68.6299
18	0.0006	0.2144	0.0332	11.7246	0.0025	0.8769	0.0996	35.1596
19	0.0019	0.8326	0.0301	13.0495	0.0000	0.0000	0.1927	83.6132
23	0.0029	2.2145	0.0336	26.0363	0.0000	0.0000	0.1256	97.4060
27	0.0023	0.5727	0.0378	9.5080	0.0023	0.5858	0.4355	109.4742
28	0.0041	2.8027	0.0225	15.3469	0.0000	0.0000	0.1262	86.0847
35	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0416	30.8717
40	0.0017	0.7753	0.0073	3.3069	0.0000	0.0000	0.0050	2.2615
44	0.0027	0.9329	0.0234	8.1677	0.0000	0.0000	0.1207	42.1046
51	0.0016	0.1615	0.0244	2.3900	0.0030	0.2953	0.6579	64.5021
55	0.0028	1.1005	0.0147	5.7891	0.0000	0.0000	0.0357	14.0435
57	0.0000	0.0000	0.0436	23.3454	0.0000	0.0000	0.0979	52.4083
61	0.0000	0.0000	0.0144	10.7511	0.0000	0.0000	0.0789	58.7459
65	0.0050	0.9496	0.0113	2.1517	0.0000	0.0000	0.0013	0.2430
69	0.0047	0.2027	0.0795	3.3953	0.0000	0.0000	0.1324	5.6560

	Ni2316	Ni2316	P_2149	P_2149	Pb2203	Pb2203	S_1820	S_1820
#	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha
72	0.0028	0.0496	0.0112	0.2007	0.0000	0.0000	0.0222	0.3995
75	0.0003	0.0956	0.0105	3.6940	0.0000	0.0000	0.0098	3.4546
80	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0420	16.5066
82	0.0000	0.0000	0.0245	5.5734	0.0000	0.0000	0.1651	37.4957
84	0.0000	0.0000	0.0126	6.3280	0.0000	0.0000	0.0842	42.4508
91	0.0026	0.5722	0.0096	2.1393	0.0000	0.0000	0.0949	21.1208
95	0.0001	0.1141	0.0110	14.9568	0.0000	0.0000	0.0779	106.2935
103	0.0027	0.3080	0.0268	3.0561	0.0000	0.0000	0.1324	15.1046
105	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0729	19.3631
109	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0007	1.0298
116	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
121	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0155	0.3541
126	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0263	1.2787
131	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0163	4.2628
9	0.0030	0.4806	0.0339	5.4016	0.0041	0.6557	0.4443	70.7269
15	0.0028	2.1168	0.0158	11.7587	0.0000	0.0000	0.2171	161.9009
21	0.0041	0.5171	0.0230	2.9243	0.0000	0.0000	0.5861	74.6126
25	0.0019	1.2831	0.0284	18.9908	0.0000	0.0000	0.3789	253.3377
32	0.0027	3.9769	0.0139	20.5887	0.0000	0.0000	0.7875	1165.7990
38	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1393	39.8891
42	0.0025	1.6225	0.0082	5.2990	0.0000	0.0000	0.3867	250.2907
47	0.0030	0.0524	0.0493	0.8689	0.0000	0.0000	0.3944	6.9446
48	0.0037	2.4837	0.0182	12.3236	0.0021	1.4259	0.1549	105.0648
50	0.0018	0.2835	0.0098	1.5232	0.0007	0.1146	0.1948	30.2266
52	0.0029	0.4810	0.0144	2.4062	0.0065	1.0917	0.2351	39.2773
62	0.0033	0.2844	0.0129	1.1262	0.0000	0.0000	0.2227	19.4498
67	0.0016	0.2545	0.0059	0.9194	0.0000	0.0000	0.1111	17.2385
70	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0543	6.4717
87	0.0000	0.0000	0.0105	23.4721	0.0000	0.0000	0.7535	1680.8498
99	0.0080	9.9256	0.0523	64.9754	0.0060	7.4021	0.4417	549.1174
104	0.0009	0.0215	0.0017	0.0401	0.0000	0.0000	0.7820	18.6071
106	0.0039	0.0752	0.0000	0.0000	0.0000	0.0000	0.0523	0.9964
113	0.0012	0.7735	0.0000	0.0000	0.0016	1.0486	0.1483	96.7089
119	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.6290	89.0580
124	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.8926	70.9380
129	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.1346	35.3674
6	0.0000	0.0000	0.1735	2.1061	0.0000	0.0000	1.5710	19.0648
12	0.0018	0.6164	0.0415	14.3415	0.0018	0.6082	0.3336	115.4321
29	0.0028	2.2914	0.0866	69.6259	0.0068	5.4834	0.3646	293.1212
36	0.0000	0.0000	0.0548	37.2036	0.0000	0.0000	0.3393	230.5314
46	0.0000	0.0000	0.0484	0.2305	0.0000	0.0000	0.2028	0.9650
76	0.0040	0.1951	0.0145	0.7062	0.0000	0.0000	0.2245	10.9518
85	0.0022	0.2851	0.0000	0.0000	0.0001	0.0124	0.4059	51.6735
96	0.0000	0.0000	0.0053	8.5916	0.0000	0.0000	0.1607	262.7532
110	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.5664	573.4626

	Ni2316	Ni2316	P_2149	P_2149	Pb2203	Pb2203	S_1820	S_1820
#	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha
117	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.8065	88.4678
122	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.8764	5.2138
132	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0209	32.7958
127	0.0000	0.0000	0.0002	0.1162	0.0000	0.0000	0.6405	434.7051
3	0.0031	0.1747	0.0734	4.1053	0.0000	0.0000	0.5556	31.0672
16	0.0024	0.3469	0.0697	10.2545	0.0000	0.0000	0.7986	117.4319
33	0.0010	1.3014	0.0245	31.2650	0.0053	6.8110	0.2756	351.4174
53	0.0020	0.4360	0.1718	38.2628	0.0040	0.8860	0.4916	109.4929
59	0.0040	1.4679	0.0164	5.9948	0.0000	0.0000	0.0000	0.0000
63	0.0028	0.5148	0.0048	0.8754	0.0000	0.0000	0.1293	23.6577
88	0.0000	0.0000	0.0101	6.0395	0.0000	0.0000	0.0252	15.0957
93	0.0015	0.1336	0.0773	6.7501	0.0000	0.0000	0.1096	9.5703
100	0.0004	0.4088	0.0029	2.8196	0.0000	0.0000	0.0000	0.0000
107	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
114	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	0.0027	1.8060	0.0141	9.6126	0.0000	0.0000	0.0269	18.2972
7	0.0050	3.6858	0.0259	19.1406	0.0014	1.0405	0.0124	9.1635
13	0.0046	3.5954	0.0278	21.8239	0.0000	0.0000	0.0000	0.0000
20	0.0021	0.7755	0.0195	7.1242	0.0087	3.1836	0.0000	0.0000
24	0.0012	0.9307	0.0041	3.1872	0.0000	0.0000	0.0516	40.0445
30	0.0007	1.9560	0.0224	61.7613	0.0032	8.9192	0.0236	65.0169
37	0.0000	0.0000	0.0000	0.0000	0.0022	1.5770	0.0103	7.4095
41	0.0013	0.9592	0.0187	14.2042	0.0001	0.0431	0.0931	70.5708
58	0.0015	0.6832	0.0126	5.6303	0.0000	0.0000	0.1067	47.5230
66	0.0061	0.4089	0.0132	0.8838	0.0066	0.4434	0.0298	2.0022
73	0.0036	0.1489	0.0053	0.2205	0.0000	0.0000	0.0434	1.8160
77	0.0020	1.4442	0.0041	3.0331	0.0014	1.0487	0.0000	0.0000
81	0.0000	0.0000	0.1126	17.9176	0.0000	0.0000	0.1636	26.0427
83	0.0041	0.4219	0.0247	2.5346	0.0030	0.3052	0.0186	1.9123
86	0.0049	4.3846	0.0097	8.6299	0.0000	0.0000	0.0204	18.2635
92	0.0036	0.4644	0.0102	1.3015	0.0013	0.1620	0.0043	0.5543
97	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0445	75.4072
111	0.0000	0.0000	0.0022	4.4540	0.0000	0.0000	0.1038	206.8823
118	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1298	52.5614
123	0.0006	0.0147	0.0000	0.0000	0.0000	0.0000	0.0532	1.2648
133	0.0000	0.0000	0.0000	0.0000	0.0001	0.0050	0.0499	2.3726
128	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0591	10.1240
4	0.0044	1.0754	0.0297	7.3238	0.0000	0.0000	0.0170	4.1925
10	0.0036	3.0389	0.0123	10.2410	0.0000	0.0000	0.0013	1.0799
17	0.0047	3.9514	0.0148	12.3591	0.0000	0.0000	0.0000	0.0000
22	0.0050	3.5948	0.0162	11.6226	0.0000	0.0000	0.0000	0.0000
26	0.0000	0.0000	0.0384	24.1421	0.0000	0.0000	0.0548	34.4976
34	0.0004	0.3487	0.0059	4.6955	0.0074	5.8419	0.0000	0.0000
39	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
43	0.0000	0.0000	0.0344	24.1367	0.0000	0.0000	0.0410	28.7582

	Ni2316	Ni2316	P_2149	P_2149	Pb2203	Pb2203	S_1820	S_1820
#	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha
49	0.0020	1.3442	0.0163	11.0265	0.0000	0.0000	0.0000	0.0000
54	0.0028	2.9280	0.0066	6.9454	0.0000	0.0000	0.0000	0.0000
56	0.0000	0.0000	0.0050	1.6428	0.0000	0.0000	0.0000	0.0000
60	0.0053	4.1243	0.0200	15.4503	0.0000	0.0000	0.0000	0.0000
64	0.0013	0.9302	0.0086	6.2665	0.0000	0.0000	0.0000	0.0000
68	0.0020	1.0179	0.0102	5.2734	0.0000	0.0000	0.0000	0.0000
71	0.0003	0.1047	0.0041	1.4537	0.0009	0.3164	0.0000	0.0000
74	0.0055	2.9806	0.0241	13.1119	0.0000	0.0000	0.0000	0.0000
79	0.0044	3.6909	0.0063	5.3428	0.0000	0.0000	0.0000	0.0000
89	0.0029	5.1494	0.0074	13.2026	0.0000	0.0000	0.0000	0.0000
94	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
101	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
108	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
115	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
125	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
130	0.0000	0.0000	0.0024	0.0159	0.0000	0.0000	0.0994	0.6625
14	0.0000	0.0000	0.2916	25.4667	0.0000	0.0000	0.3647	31.8514
31	0.0015	0.7225	0.0845	42.0247	0.0000	0.0000	0.4535	225.4288
78	0.0000	0.0000	0.2655	33.8050	0.0000	0.0000	1.1665	148.5041
98	0.0001	0.0250	0.0758	14.1741	0.0000	0.0000	0.6539	122.2922
112	0.0000	0.0000	0.0559	19.3323	0.0000	0.0000	0.7110	245.9964
90	0.0026	0.3284	0.5124	65.2367	0.0000	0.0000	4.3413	552.6722
102	0.0000	0.0000	0.0675	7.4037	0.0000	0.0000	1.0010	109.8112

	Se1960	Se1960	Sr4215	Sr4215	V_2924	V_2924	Y_3710	Y_3710
#	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha
1	0.0011	0.5330	0.0245	12.1278	0.0045	2.2408	0.0018	0.8691
5	0.0092	7.1867	0.0151	11.7545	0.0022	1.7105	0.0005	0.3778
11	0.0137	9.5270	0.0069	4.7926	0.0009	0.6212	0.0007	0.4706
18	0.0143	5.0352	0.0094	3.3080	0.0036	1.2728	0.0006	0.2181
19	0.0194	8.4120	0.0084	3.6351	0.0030	1.3122	0.0008	0.3688
23	0.0048	3.7147	0.0090	7.0184	0.0024	1.8375	0.0001	0.0974
27	0.0104	2.6207	0.0085	2.1347	0.0027	0.6813	0.0009	0.2204
28	0.0245	16.7147	0.0116	7.9267	0.0026	1.7732	0.0007	0.5109
35	0.0000	0.0000	0.0317	23.4983	0.0013	0.9861	0.0007	0.5488
40	0.0042	1.9117	0.0224	10.1981	0.0000	0.0000	0.0000	0.0000
44	0.0082	2.8442	0.0112	3.8891	0.0022	0.7564	0.0007	0.2353
51	0.0203	1.9904	0.0581	5.6947	0.0010	0.0973	0.0010	0.0949
55	0.0091	3.5976	0.0588	23.1186	0.0001	0.0434	0.0003	0.1000
57	0.0000	0.0000	0.0187	9.9926	0.0016	0.8408	0.0012	0.6397
61	0.0172	12.8464	0.0127	9.4485	0.0027	1.9780	0.0006	0.4377
65	0.0062	1.1764	0.0695	13.2503	0.0011	0.2068	0.0002	0.0456
69	0.0212	0.9075	0.0802	3.4269	0.0054	0.2321	0.0028	0.1192

	Se1960	Se1960	Sr4215	Sr4215	V_2924	V_2924	Y_3710	Y_3710
#	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha
72	0.0199	0.3568	0.0272	0.4876	0.0011	0.0202	0.0006	0.0116
75	0.0048	1.6893	0.0103	3.6204	0.0018	0.6479	0.0005	0.1618
80	0.0002	0.0756	0.0067	2.6544	0.0046	1.8131	0.0007	0.2746
82	0.0000	0.0000	0.0056	1.2773	0.0043	0.9683	0.0013	0.2966
84	0.0000	0.0000	0.0081	4.0963	0.0039	1.9729	0.0011	0.5441
91	0.0048	1.0633	0.0070	1.5603	0.0031	0.6813	0.0008	0.1761
95	0.0017	2.2872	0.0066	9.0313	0.0034	4.5814	0.0008	1.1115
103	0.0131	1.4973	0.0258	2.9400	0.0016	0.1827	0.0007	0.0801
105	0.0000	0.0000	0.0229	6.0910	0.0056	1.4833	0.0021	0.5699
109	0.0000	0.0000	0.0317	45.9782	0.0024	3.4322	0.0007	0.9453
116	0.0000	0.0000	0.0248	6.7055	0.0028	0.7600	0.0006	0.1546
121	0.0000	0.0000	0.0316	0.7204	0.0014	0.0312	0.0013	0.0286
126	0.0000	0.0000	0.0234	1.1353	0.0028	0.1360	0.0011	0.0522
131	0.0000	0.0000	0.0179	4.6824	0.0031	0.8193	0.0010	0.2618
9	0.0141	2.2467	0.0730	11.6233	0.0012	0.1933	0.0002	0.0303
15	0.0269	20.0712	0.0460	34.3332	0.0005	0.3804	0.0003	0.2521
21	0.0078	0.9920	0.0098	1.2462	0.0000	0.0000	0.0002	0.0209
25	0.0235	15.7048	0.0099	6.5875	0.0008	0.5360	0.0005	0.3616
32	0.0184	27.2009	0.0453	67.0689	0.0000	0.0000	0.0006	0.8167
38	0.0000	0.0000	0.0896	25.6406	0.0024	0.6891	0.0012	0.3301
42	0.0010	0.6549	0.0371	23.9985	0.0000	0.0000	0.0008	0.4910
47	0.0265	0.4660	0.0405	0.7136	0.0009	0.0155	0.0000	0.0000
48	0.0099	6.7112	0.0353	23.9692	0.0004	0.2992	0.0006	0.3780
50	0.0125	1.9439	0.0418	6.4840	0.0003	0.0513	0.0003	0.0501
52	0.0155	2.5809	0.0252	4.2155	0.0009	0.1474	0.0004	0.0637
62	0.0314	2.7396	0.0420	3.6698	0.0009	0.0751	0.0004	0.0330
67	0.0066	1.0295	0.0550	8.5260	0.0000	0.0000	0.0000	0.0000
70	0.0006	0.0668	0.0461	5.4965	0.0024	0.2815	0.0012	0.1474
87	0.0051	11.4212	0.0077	17.2212	0.0026	5.8792	0.0009	1.9035
99	0.0367	45.6915	0.0113	14.0729	0.0015	1.8494	0.0000	0.0000
104	0.0040	0.0960	0.0450	1.0713	0.0000	0.0000	0.0006	0.0143
106	0.0000	0.0000	0.1243	2.3655	0.0028	0.0538	0.0012	0.0236
113	0.0000	0.0000	0.0581	37.9133	0.0033	2.1598	0.0014	0.9207
119	0.0000	0.0000	0.0228	3.2218	0.0027	0.3877	0.0008	0.1159
124	0.0000	0.0000	0.0137	1.0910	0.0034	0.2692	0.0008	0.0628
129	0.0000	0.0000	0.0122	0.3792	0.0044	0.1359	0.0008	0.0234
6	0.0000	0.0000	0.0307	0.3727	0.0029	0.0351	0.0026	0.0315
12	0.0115	3.9795	0.0616	21.3094	0.0000	0.0000	0.0004	0.1352
29	0.0133	10.7192	0.0322	25.9081	0.0025	1.9998	0.0006	0.4594
36	0.0000	0.0000	0.0495	33.6521	0.0059	4.0272	0.0014	0.9661
46	0.0036	0.0171	0.0752	0.3578	0.0024	0.0116	0.0015	0.0073
76	0.0147	0.7194	0.1214	5.9201	0.0007	0.0347	0.0008	0.0379
85	0.0147	1.8767	0.1007	12.8258	0.0009	0.1184	0.0004	0.0563
96	0.0020	3.2991	0.0326	53.2856	0.0017	2.7446	0.0009	1.5315
110	0.0000	0.0000	0.0339	34.3215	0.0034	3.4144	0.0020	1.9920

	Se1960	Se1960	Sr4215	Sr4215	V_2924	V_2924	Y_3710	Y_3710
#	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha
117	0.0000	0.0000	0.0182	1.9999	0.0027	0.3009	0.0005	0.0523
122	0.0000	0.0000	0.0162	0.0966	0.0036	0.0212	0.0012	0.0069
132	0.0000	0.0000	0.0087	0.2784	0.0033	0.1073	0.0009	0.0293
127	0.0000	0.0000	0.0081	5.5299	0.0030	2.0541	0.0013	0.8497
3	0.0199	1.1123	0.0156	0.8716	0.0000	0.0000	0.0003	0.0165
16	0.0163	2.3977	0.0352	5.1797	0.0002	0.0322	0.0003	0.0426
33	0.0131	16.7105	0.0486	61.9882	0.0000	0.0000	0.0000	0.0000
53	0.0242	5.3858	0.0776	17.2900	0.0014	0.3030	0.0002	0.0501
59	0.0192	7.0435	0.0126	4.6194	0.0000	0.0000	0.0007	0.2442
63	0.0025	0.4491	0.1288	23.5624	0.0000	0.0000	0.0003	0.0547
88	0.0071	4.2802	0.0312	18.7012	0.0008	0.4650	0.0012	0.7092
93	0.0133	1.1593	0.0416	3.6310	0.0062	0.5396	0.0034	0.2951
100	0.0142	13.6036	0.0270	25.9251	0.0006	0.5486	0.0007	0.7125
107	0.0000	0.0000	0.0376	15.8514	0.0025	1.0726	0.0014	0.5936
114	0.0000	0.0000	0.0405	14.0296	0.0036	1.2447	0.0012	0.3995
2	0.0142	9.6735	0.0462	31.3622	0.0000	0.0000	0.0000	0.0000
7	0.0164	12.1659	0.0486	35.9771	0.0003	0.2114	0.0022	1.6071
13	0.0126	9.8589	0.0355	27.8745	0.0000	0.0000	0.0021	1.6156
20	0.0227	8.2979	0.0432	15.8174	0.0000	0.0000	0.0010	0.3605
24	0.0043	3.3391	0.0232	18.0385	0.0000	0.0000	0.0013	1.0192
30	0.0146	40.0679	0.0292	80.4860	0.0011	2.9641	0.0021	5.6694
37	0.0000	0.0000	0.0260	18.6970	0.0028	2.0165	0.0022	1.6040
41	0.0174	13.2201	0.0151	11.4251	0.0000	0.0000	0.0007	0.5227
58	0.0119	5.2863	0.0253	11.2620	0.0000	0.0000	0.0005	0.2395
66	0.0165	1.1040	0.0373	2.5031	0.0008	0.0527	0.0014	0.0916
73	0.0134	0.5606	0.0556	2.3276	0.0008	0.0330	0.0003	0.0109
77	0.0138	10.1747	0.0554	40.9011	0.0020	1.4951	0.0044	3.2415
81	0.0000	0.0000	0.1032	16.4325	0.0061	0.9686	0.0122	1.9442
83	0.0117	1.1996	0.0976	10.0323	0.0007	0.0717	0.0109	1.1234
86	0.0087	7.8172	0.0404	36.0815	0.0020	1.7671	0.0069	6.1945
92	0.0185	2.3720	0.0622	7.9637	0.0008	0.0992	0.0095	1.2121
97	0.0046	7.8607	0.0273	46.2174	0.0011	1.8106	0.0066	11.1652
111	0.0000	0.0000	0.0260	51.8518	0.0040	7.9504	0.0076	15.0600
118	0.0000	0.0000	0.0204	8.2458	0.0075	3.0208	0.0058	2.3364
123	0.0000	0.0000	0.0230	0.5476	0.0022	0.0514	0.0032	0.0768
133	0.0000	0.0000	0.0187	0.8917	0.0028	0.1334	0.0025	0.1189
128	0.0000	0.0000	0.0182	3.1192	0.0035	0.5927	0.0025	0.4340
4	0.0164	4.0375	0.0175	4.3137	0.0000	0.0000	0.0000	0.0023
10	0.0216	17.9885	0.0512	42.6032	0.0000	0.0000	0.0036	2.9748
17	0.0114	9.5416	0.0393	32.9058	0.0000	0.0000	0.0027	2.2813
22	0.0177	12.7193	0.0281	20.2189	0.0000	0.0000	0.0016	1.1324
26	0.0083	5.1942	0.0254	16.0054	0.0038	2.4056	0.0041	2.5662
34	0.0082	6.4774	0.0231	18.2609	0.0000	0.0000	0.0008	0.6700
39	0.0000	0.0000	0.0198	8.0513	0.0023	0.9329	0.0022	0.8810
43	0.0000	0.0000	0.0166	11.6784	0.0030	2.0910	0.0034	2.4104

	Se1960	Se1960	Sr4215	Sr4215	V_2924	V_2924	Y_3710	Y_3710
#	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha	ug/ml	g/ha
49	0.0161	10.9220	0.0216	14.6221	0.0000	0.0000	0.0009	0.5903
54	0.0106	11.1410	0.0151	15.8895	0.0000	0.0000	0.0006	0.5851
56	0.0016	0.5103	0.0136	4.4215	0.0015	0.4797	0.0011	0.3733
60	0.0107	8.2309	0.0136	10.4978	0.0009	0.7221	0.0008	0.6538
64	0.0067	4.9265	0.0157	11.4873	0.0004	0.3010	0.0010	0.7068
68	0.0121	6.2364	0.0190	9.8144	0.0000	0.0000	0.0016	0.8033
71	0.0125	4.4394	0.0231	8.1719	0.0000	0.0000	0.0023	0.7979
74	0.0061	3.3506	0.0511	27.8260	0.0002	0.1021	0.0114	6.1994
79	0.0170	14.3382	0.0369	31.1378	0.0000	0.0000	0.0071	5.9802
89	0.0172	30.6730	0.0121	21.4825	0.0012	2.2060	0.0036	6.3452
94	0.0030	0.7927	0.0099	2.5760	0.0010	0.2584	0.0021	0.5437
101	0.0147	17.3521	0.0088	10.3922	0.0000	0.0452	0.0013	1.5303
108	0.0000	0.0000	0.0171	17.2324	0.0026	2.6640	0.0029	2.9067
115	0.0000	0.0000	0.0173	30.5712	0.0022	3.8390	0.0026	4.6697
120	0.0000	0.0000	0.0129	0.5075	0.0012	0.0453	0.0020	0.0798
125	0.0000	0.0000	0.0143	2.0287	0.0029	0.4081	0.0023	0.3245
130	0.0000	0.0000	0.0128	0.0850	0.0071	0.0472	0.0039	0.0261
14	0.0000	0.0000	0.0082	0.7136	0.0043	0.3787	0.0030	0.2632
31	0.0145	7.2098	0.0115	5.7128	0.0000	0.0185	0.0000	0.0000
78	0.0120	1.5309	0.0146	1.8533	0.0007	0.0954	0.0001	0.0114
98	0.0159	2.9818	0.0225	4.2118	0.0013	0.2425	0.0008	0.1561
112	0.0000	0.0000	0.0334	11.5710	0.0033	1.1461	0.0011	0.3796
90	0.0077	0.9745	0.0079	1.0009	0.0014	0.1826	0.0003	0.0432
102	0.0119	1.3063	0.0306	3.3541	0.0010	0.1130	0.0003	0.0313

	Zn2062	Zn2062
#	ug/ml	g/ha
1	0.0018	0.8720
5	0.0131	10.2098
11	0.0145	10.1191
18	0.0060	2.1344
19	0.0043	1.8527
23	0.0073	5.6646
27	0.0097	2.4410
28	0.0036	2.4316
35	0.0207	15.3271
40	0.0315	14.2965
44	0.0132	4.6113
51	0.0138	1.3519
55	0.3188	125.4006
57	0.0192	10.2627
61	0.0104	7.7561
65	0.0492	9.3778
69	0.0587	2.5078
72	0.0510	0.9162

	Zn2062	Zn2062
#	ug/ml	g/ha
75	0.0146	5.1480
80	0.0057	2.2615
82	0.0043	0.9778
84	0.0060	3.0465
91	0.0108	2.4034
95	0.0104	14.2148
103	0.0555	6.3273
105	0.0766	20.3629
109	0.1169	169.4346
116	0.1385	37.4030
121	0.1648	3.7581
126	0.0776	3.7638
131	0.0599	15.6613
9	0.0502	7.9857
15	0.0595	44.3946
21	0.0166	2.1124
25	0.0051	3.3957
32	0.0692	102.4434
38	0.1022	29.2473
42	0.0567	36.7138
47	0.0601	1.0583
48	0.1497	101.5106
50	0.0664	10.2948
52	0.0522	8.7178
62	0.0381	3.3304
67	0.0691	10.7175
70	0.0915	10.9085
87	0.0085	18.8871
99	0.0208	25.8820
104	0.0678	1.6143
106	0.3500	6.6630
113	0.2411	157.2024
119	0.0880	12.4588
124	0.0458	3.6428
129	0.0148	0.4609
6	0.0063	0.0763
12	0.0033	1.1326
29	0.0047	3.7931
36	0.0036	2.4673
46	0.0328	0.1559
76	0.0575	2.8070
85	0.0380	4.8321
96	0.0140	22.9692
110	0.0169	17.1340
117	0.0167	1.8293

	Zn2062	Zn2062
#	ug/ml	g/ha
122	0.0322	0.1917
132	0.0148	0.4739
127	0.0038	2.6042
3	0.0149	0.8354
16	0.0091	1.3368
33	0.0048	6.1183
53	0.0170	3.7856
59	0.0280	10.2456
63	0.0181	3.3137
88	0.0142	8.5155
93	0.0148	1.2911
100	0.1197	114.8001
107	0.0387	16.3244
114	0.0189	6.5240
2	0.0151	10.2765
7	0.0209	15.4349
13	0.0209	16.3684
20	0.0237	8.6708
24	0.0120	9.3374
30	0.0223	61.3815
37	0.0288	20.7316
41	0.0228	17.2423
58	0.0404	18.0010
66	0.0437	2.9291
73	0.0492	2.0622
77	0.0769	56.8399
81	0.0675	10.7461
83	0.0730	7.5023
86	0.0326	29.1742
92	0.0535	6.8477
97	0.0263	44.6637
111	0.0509	101.4866
118	0.0359	14.5468
123	0.0528	1.2576
133	0.0452	2.1515
128	0.0338	5.7972
4	0.0100	2.4737
10	0.0769	64.0025
17	0.0655	54.8238
22	0.0450	32.3364
26	0.0419	26.3903
34	0.9123	721.3520
39	0.0891	36.1477
43	0.0674	47.3545
49	0.0453	30.7508

	Zn2062	Zn2062
#	ug/ml	g/ha
54	0.0358	37.5309
56	0.0390	12.7200
60	0.0313	24.1855
64	0.0278	20.3543
68	0.0422	21.8023
71	0.0501	17.7344
74	0.2751	149.9212
79	0.2267	191.5314
89	0.0771	137.2012
94	0.0540	14.0670
101	0.0467	55.2966
108	0.1729	173.8298
115	0.1538	271.7436
120	0.1192	4.6801
125	0.1263	17.8752
130	0.1230	0.8193
14	0.0001	0.0054
31	0.0016	0.7762
78	0.0140	1.7859
98	0.0065	1.2205
112	0.0008	0.2849
90	0.0061	0.7710
102	0.0054	0.5942

Table C2. ICP and inorganic nitrogen results for 2005 for samples from suction cup lysimeters. “T”: 20 t biochar ha⁻¹, “C” 20 t biochar ha⁻¹. Negative fluxes indicate downward movement.

		#	rep	trt	depth	flux	Al3092	Al3092	Ca3179	Ca3179	Cu3247
year	date				cm	l/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2005	6-Jun	16	1	C	15	-1055656.58	0.0265	-0.0280	2.3370	-2.4671	0.0000
2005	6-Jun	21	2	C	15	-1055656.58	5.1180	-5.4029	12.4000	-13.0901	0.0048
2005	6-Jun	26	3	C	15	-1055656.58	1.2360	-1.3048	1.6050	-1.6943	0.0000
2005	6-Jun	1	1	T	15	-1055991.97	0.3651	-0.3855	27.6800	-29.2299	0.0000
2005	6-Jun	6	2	T	15	-1055991.97	8.5460	-9.0245	30.0400	-31.7220	0.0000
2005	6-Jun	11	3	T	15	-1055991.97	0.0000	0.0000	4.8400	-5.1110	0.0000
2005	6-Jun	17	1	C	30	-970137.24	0.9513	-0.9229	6.1670	-5.9828	0.0000
2005	6-Jun	22	2	C	30	-970137.24	3.2850	-3.1869	17.8500	-17.3169	0.0062
2005	6-Jun	27	3	C	30	-970137.24	2.4440	-2.3710	7.0720	-6.8608	0.0000
2005	6-Jun	2	1	T	30	-965034.81	0.4443	-0.4288	3.1070	-2.9984	0.0035
2005	6-Jun	7	2	T	30	-965034.81	4.1530	-4.0078	10.8500	-10.4706	0.0000
2005	6-Jun	12	3	T	30	-965034.81	3.9250	-3.7878	16.1900	-15.6239	0.0000

		#	rep	trt	depth	flux	Al3092	Al3092	Ca3179	Ca3179	Cu3247
year	date				cm	l/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2005	6-Jun	18	1	C	60	-845257.45	0.0211	-0.0178	0.9777	-0.8264	0.0000
2005	6-Jun	23	2	C	60	-845257.45	0.8232	-0.6958	5.7540	-4.8636	0.0000
2005	6-Jun	28	3	C	60	-845257.45	0.8196	-0.6928	2.2170	-1.8739	0.0000
2005	6-Jun	3	1	T	60	-831385.99	0.1264	-0.1051	0.7336	-0.6099	0.0000
2005	6-Jun	8	2	T	60	-831385.99	2.6320	-2.1882	6.8410	-5.6875	0.0005
2005	6-Jun	13	3	T	60	-831385.99	0.9000	-0.7482	4.5860	-3.8127	0.0000
2005	6-Jun	19	1	C	120	-657608.80	0.2836	-0.1865	1.0440	-0.6865	0.0084
2005	6-Jun	24	2	C	120	-657608.80	0.0838	-0.0551	0.9069	-0.5964	0.0014
2005	6-Jun	29	3	C	120	-657608.80	0.4702	-0.3092	1.9790	-1.3014	0.0070
2005	6-Jun	4	1	T	120	-638262.65	0.1288	-0.0822	0.3295	-0.2103	0.0013
2005	6-Jun	9	2	T	120	-638262.65	0.7362	-0.4699	3.1650	-2.0201	0.0084
2005	6-Jun	14	3	T	120	-638262.65	0.1793	-0.1144	0.3169	-0.2023	0.0000
2005	6-Jun	20	1	C	200	-507117.44	0.0729	-0.0370	0.0223	-0.0113	0.0000
2005	6-Jun	25	2	C	200	-507117.44	0.0621	-0.0315	0.1431	-0.0726	0.0000
2005	6-Jun	30	3	C	200	-507117.44	0.0791	-0.0401	0.0970	-0.0492	0.0000
2005	6-Jun	5	1	T	200	-475662.58	0.0135	-0.0064	0.2559	-0.1217	0.0000
2005	6-Jun	10	2	T	200	-475662.58	0.0864	-0.0411	0.5783	-0.2751	0.0049
2005	6-Jun	15	3	T	200	-475662.58	0.0333	-0.0158	0.2559	-0.1217	0.0066
2005	9-Jun	46	1	C	15	-158603.55	0.0589	-0.0093	2.1740	-0.3448	0.0000
2005	9-Jun	51	2	C	15	-158603.55	2.5780	-0.4089	6.3690	-1.0101	0.0000
2005	9-Jun	56	3	C	15	-158603.55	1.5660	-0.2484	1.7400	-0.2760	0.0000
2005	9-Jun	31	1	T	15	-160935.32	0.2012	-0.0324	13.6200	-2.1919	0.0000
2005	9-Jun	36	2	T	15	-160935.32	7.2550	-1.1676	25.1400	-4.0459	0.0000
2005	9-Jun	41	3	T	15	-160935.32	0.1502	-0.0242	3.0420	-0.4896	0.0045
2005	9-Jun	47	1	C	30	-140633.79	0.9364	-0.1317	3.4760	-0.4888	0.0017
2005	9-Jun	52	2	C	30	-140633.79	4.4440	-0.6250	20.6700	-2.9069	0.0000
2005	9-Jun	57	3	C	30	-140633.79	1.5460	-0.2174	3.9360	-0.5535	0.0105
2005	9-Jun	32	1	T	30	-136227.90	0.6804	-0.0927	3.8530	-0.5249	0.0000
2005	9-Jun	37	2	T	30	-136227.90	3.4290	-0.4671	9.7790	-1.3322	0.0000
2005	9-Jun	42	3	T	30	-136227.90	4.9180	-0.6700	16.5400	-2.2532	0.0028
2005	9-Jun	48	1	C	60	-134176.82	0.1935	-0.0260	0.9525	-0.1278	0.0000
2005	9-Jun	53	2	C	60	-134176.82	1.0470	-0.1405	6.2460	-0.8381	0.0071
2005	9-Jun	58	3	C	60	-134176.82					
2005	9-Jun	33	1	T	60	-127122.30	0.8158	-0.1037	4.9760	-0.6326	0.0000
2005	9-Jun	38	2	T	60	-127122.30	2.9930	-0.3805	8.1620	-1.0376	0.0000
2005	9-Jun	43	3	T	60	-127122.30	0.9307	-0.1183	4.2450	-0.5396	0.0060
2005	9-Jun	49	1	C	120	-183842.82	0.3411	-0.0627	1.1950	-0.2197	0.0022
2005	9-Jun	54	2	C	120	-183842.82	0.1720	-0.0316	1.0140	-0.1864	0.0075
2005	9-Jun	59	3	C	120	-183842.82					
2005	9-Jun	34	1	T	120	-172768.11	0.1519	-0.0262	0.2791	-0.0482	0.0000
2005	9-Jun	39	2	T	120	-172768.11	0.7033	-0.1215	2.5950	-0.4483	0.0151
2005	9-Jun	44	3	T	120	-172768.11	0.1908	-0.0330	0.6672	-0.1153	0.0173
2005	9-Jun	50	1	C	200	-199971.72	0.0465	-0.0093	0.0120	-0.0024	0.0000
2005	9-Jun	55	2	C	200	-199971.72	0.0133	-0.0027	0.1998	-0.0400	0.0075
2005	9-Jun	60	3	C	200	-199971.72					
2005	9-Jun	35	1	T	200	-189328.42	0.0847	-0.0160	0.1974	-0.0374	0.0000

		#	rep	trt	depth	flux	Al3092	Al3092	Ca3179	Ca3179	Cu3247
year	date				cm	l/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2005	9-Jun	40	2	T	200	-189328.42	0.1507	-0.0285	0.4974	-0.0942	0.0134
2005	9-Jun	45	3	T	200	-189328.42	0.1586	-0.0300	0.4070	-0.0771	0.0076
2005	15-Jun	76	1	C	15	-291316.19	0.0981	-0.0286	5.4840	-1.5976	0.0101
2005	15-Jun	81	2	C	15	-291316.19	3.2310	-0.9412	6.1670	-1.7965	0.0071
2005	15-Jun	86	3	C	15	-291316.19	1.3370	-0.3895	1.8180	-0.5296	0.0128
2005	15-Jun	61	1	T	15	-295773.17	0.2251	-0.0666	16.4900	-4.8773	0.0000
2005	15-Jun	66	2	T	15	-295773.17	7.6480	-2.2621	23.6400	-6.9921	0.0000
2005	15-Jun	71	3	T	15	-295773.17	0.1613	-0.0477	6.8540	-2.0272	0.0000
2005	15-Jun	77	1	C	30	-328766.51	1.2550	-0.4126	6.6030	-2.1708	0.0051
2005	15-Jun	82	2	C	30	-328766.51	5.1540	-1.6945	20.7000	-6.8055	0.0008
2005	15-Jun	87	3	C	30	-328766.51	3.5760	-1.1757	9.9970	-3.2867	0.0000
2005	15-Jun	62	1	T	30	-310501.81	0.8779	-0.2726	5.1440	-1.5972	0.0008
2005	15-Jun	67	2	T	30	-310501.81	4.9220	-1.5283	12.5900	-3.9092	0.0027
2005	15-Jun	72	3	T	30	-310501.81	9.9590	-3.0923	32.1100	-9.9702	0.0029
2005	15-Jun	78	1	C	60	-355341.74	0.2134	-0.0758	1.2480	-0.4435	0.0162
2005	15-Jun	83	2	C	60	-355341.74	0.9652	-0.3430	6.5170	-2.3158	0.0097
2005	15-Jun	88	3	C	60	-355341.74	0.8625	-0.3065	2.2350	-0.7942	0.0077
2005	15-Jun	63	1	T	60	-349865.79	0.8977	-0.3141	4.9700	-1.7388	0.0000
2005	15-Jun	68	2	T	60	-349865.79	3.3020	-1.1553	8.3260	-2.9130	0.0027
2005	15-Jun	73	3	T	60	-349865.79	0.8922	-0.3122	5.8640	-2.0516	0.0097
2005	15-Jun	79	1	C	120	-341995.18	0.1972	-0.0674	1.2410	-0.4244	0.0139
2005	15-Jun	84	2	C	120	-341995.18	0.0417	-0.0143	1.0180	-0.3482	0.0047
2005	15-Jun	89	3	C	120	-341995.18	0.3022	-0.1034	0.7063	-0.2416	0.0156
2005	15-Jun	64	1	T	120	-336777.78	0.0956	-0.0322	0.2638	-0.0888	0.0000
2005	15-Jun	69	2	T	120	-336777.78	0.6895	-0.2322	3.0630	-1.0316	0.0049
2005	15-Jun	74	3	T	120	-336777.78	0.0239	-0.0080	0.3263	-0.1099	0.0151
2005	15-Jun	80	1	C	200	-331518.20	0.0620	-0.0206	0.0567	-0.0188	0.0009
2005	15-Jun	85	2	C	200	-331518.20	0.0000	0.0000	0.1416	-0.0469	0.0030
2005	15-Jun	90	3	C	200	-331518.20	0.0331	-0.0110	0.1265	-0.0419	0.0109
2005	15-Jun	65	1	T	200	-323318.22	0.0968	-0.0313	0.1069	-0.0346	0.0000
2005	15-Jun	70	2	T	200	-323318.22	0.0737	-0.0238	0.4588	-0.1483	0.0022
2005	15-Jun	75	3	T	200	-323318.22	0.1266	-0.0409	0.2602	-0.0841	0.0114
2005	21-Jun	106	1	C	15	-675686.26	0.2215	-0.1497	7.3920	-4.9947	0.0000
2005	21-Jun	111	2	C	15	-675686.26	1.6270	-1.0993	3.4500	-2.3311	0.0143
2005	21-Jun	116	3	C	15	-675686.26	2.5980	-1.7554	2.5940	-1.7527	0.0058
2005	21-Jun	91	1	T	15	-680505.71	0.0000	0.0000	13.1100	-8.9214	0.0053
2005	21-Jun	96	2	T	15	-680505.71	7.8920	-5.3706	21.5400	-14.6581	0.0063
2005	21-Jun	101	3	T	15	-680505.71	0.0415	-0.0282	5.1800	-3.5250	0.0000
2005	21-Jun	107	1	C	30	-618026.76	1.0590	-0.6545	6.0450	-3.7360	0.0000
2005	21-Jun	112	2	C	30	-618026.76	3.6100	-2.2311	14.7200	-9.0974	0.0000
2005	21-Jun	117	3	C	30	-618026.76	3.8790	-2.3973	9.3240	-5.7625	0.0021
2005	21-Jun	92	1	T	30	-621880.57	1.3050	-0.8116	8.5710	-5.3301	0.0066
2005	21-Jun	97	2	T	30	-621880.57	6.5240	-4.0571	15.1000	-9.3904	0.0099
2005	21-Jun	102	3	T	30	-621880.57	9.3850	-5.8363	27.4300	-17.0582	0.0014
2005	21-Jun	108	1	C	60	-546302.59	0.1514	-0.0827	1.9400	-1.0598	0.0041
2005	21-Jun	113	2	C	60	-546302.59	1.0880	-0.5944	6.7250	-3.6739	0.0000

		#	rep	trt	depth	flux	Al3092	Al3092	Ca3179	Ca3179	Cu3247
year	date				cm	l/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2005	21-Jun	118	3	C	60	-546302.59	1.0080	-0.5507	2.4310	-1.3281	0.0132
2005	21-Jun	93	1	T	60	-549955.39	0.8530	-0.4691	4.9660	-2.7311	0.0000
2005	21-Jun	98	2	T	60	-549955.39	3.3660	-1.8511	8.7800	-4.8286	0.0075
2005	21-Jun	103	3	T	60	-549955.39	1.5080	-0.8293	7.3360	-4.0345	0.0004
2005	21-Jun	109	1	C	120	-441862.75	0.1293	-0.0571	1.2830	-0.5669	0.0000
2005	21-Jun	114	2	C	120	-441862.75	0.1080	-0.0477	1.1130	-0.4918	0.0046
2005	21-Jun	119	3	C	120	-441862.75	0.5518	-0.2438	1.9600	-0.8661	0.0107
2005	21-Jun	94	1	T	120	-438432.00	0.0192	-0.0084	0.6545	-0.2870	0.0056
2005	21-Jun	99	2	T	120	-438432.00	0.5707	-0.2502	3.2190	-1.4113	0.0234
2005	21-Jun	104	3	T	120	-438432.00	0.0000	0.0000	0.3267	-0.1432	0.0043
2005	21-Jun	110	1	C	200	-377070.16	0.0000	0.0000	0.0501	-0.0189	0.0015
2005	21-Jun	115	2	C	200	-377070.16	0.0000	0.0000	0.1950	-0.0735	0.0037
2005	21-Jun	120	3	C	200	-377070.16	0.0582	-0.0219	0.1259	-0.0475	0.0020
2005	21-Jun		1	T	200	-371459.22					
2005	21-Jun	100	2	T	200	-371459.22	0.1002	-0.0372	0.4149	-0.1541	0.0063
2005	21-Jun	105	3	T	200	-371459.22	0.0209	-0.0078	0.2670	-0.0992	0.0025
2005	28-Jun	136	1	C	15	-97971.72	0.8778	-0.0860	10.1700	-0.9964	0.0000
2005	28-Jun	141	2	C	15	-97971.72	0.3095	-0.0303	0.9707	-0.0951	0.0138
2005	28-Jun	146	3	C	15	-97971.72	3.4270	-0.3357	2.8040	-0.2747	0.0000
2005	28-Jun	121	1	T	15	-109727.33	0.0154	-0.0017	6.9260	-0.7600	0.0013
2005	28-Jun	126	2	T	15	-109727.33	2.3320	-0.2559	7.4090	-0.8130	0.0000
2005	28-Jun	131	3	T	15	-109727.33	0.1680	-0.0184	5.0120	-0.5500	0.0094
2005	28-Jun	137	1	C	30	-153060.39	1.5560	-0.2382	6.3030	-0.9647	0.0146
2005	28-Jun	142	2	C	30	-153060.39	1.2230	-0.1872	6.4170	-0.9822	0.0081
2005	28-Jun	147	3	C	30	-153060.39	4.8430	-0.7413	10.4000	-1.5918	0.0002
2005	28-Jun	122	1	T	30	-150322.93	2.4830	-0.3733	13.2900	-1.9978	0.0016
2005	28-Jun	127	2	T	30	-150322.93	9.1220	-1.3712	17.8200	-2.6788	0.0003
2005	28-Jun	132	3	T	30	-150322.93	6.9750	-1.0485	20.6400	-3.1027	0.0000
2005	28-Jun	138	1	C	60	-236747.08	0.2750	-0.0651	1.8420	-0.4361	0.0055
2005	28-Jun	143	2	C	60	-236747.08	1.0350	-0.2450	6.4600	-1.5294	0.0000
2005	28-Jun	148	3	C	60	-236747.08	1.0260	-0.2429	2.4360	-0.5767	0.0058
2005	28-Jun	123	1	T	60	-228629.63	0.9756	-0.2231	5.2220	-1.1939	0.0040
2005	28-Jun	128	2	T	60	-228629.63	4.2480	-0.9712	10.0000	-2.2863	0.0000
2005	28-Jun	133	3	T	60	-228629.63	1.9080	-0.4362	8.7410	-1.9985	0.0000
2005	28-Jun	139	1	C	120	-363087.67	0.2258	-0.0820	1.1580	-0.4205	0.0150
2005	28-Jun	144	2	C	120	-363087.67	0.0997	-0.0362	1.1260	-0.4088	0.0073
2005	28-Jun	149	3	C	120	-363087.67	0.5267	-0.1912	1.5630	-0.5675	0.0062
2005	28-Jun	124	1	T	120	-348956.36	0.0259	-0.0090	0.3964	-0.1383	0.0134
2005	28-Jun	129	2	T	120	-348956.36	0.6988	-0.2439	3.0590	-1.0675	0.0056
2005	28-Jun	134	3	T	120	-348956.36	0.0574	-0.0200	0.2933	-0.1023	0.0000
2005	28-Jun	140	1	C	200	-487331.07	0.0000	0.0000	0.0022	-0.0011	0.0123
2005	28-Jun	145	2	C	200	-487331.07	0.0563	-0.0274	0.1482	-0.0722	0.0069
2005	28-Jun	150	3	C	200	-487331.07	0.0127	-0.0062	0.0875	-0.0426	0.0050
2005	28-Jun		1	T	200	-475949.69					
2005	28-Jun	130	2	T	200	-475949.69	0.0542	-0.0258	0.3912	-0.1862	0.0000
2005	28-Jun	135	3	T	200	-475949.69	0.0654	-0.0311	0.2176	-0.1036	0.0073

		#	rep	trt	depth	flux	Al3092	Al3092	Ca3179	Ca3179	Cu3247
year	date				cm	l/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2005	5-Jul	166	1	C	15	-518458.70	0.0000	0.0000	3.1010	-1.6077	0.0104
2005	5-Jul	171	2	C	15	-518458.70	0.0000	0.0000	0.6297	-0.3265	0.0122
2005	5-Jul	176	3	C	15	-518458.70	6.5100	-3.3752	2.4840	-1.2879	0.0000
2005	5-Jul	151	1	T	15	-547692.76	4.9630	-2.7182	14.8800	-8.1497	0.0091
2005	5-Jul	156	2	T	15	-547692.76	1.0560	-0.5784	5.7150	-3.1301	0.0000
2005	5-Jul	161	3	T	15	-547692.76	0.0419	-0.0229	10.2500	-5.6139	0.0000
2005	5-Jul	167	1	C	30	-511005.88	2.5650	-1.3107	12.7800	-6.5307	0.0018
2005	5-Jul	172	2	C	30	-511005.88	0.0715	-0.0365	1.9110	-0.9765	0.0231
2005	5-Jul	177	3	C	30	-511005.88	4.4620	-2.2801	7.8580	-4.0155	0.0118
2005	5-Jul	152	1	T	30	-541379.77	1.3330	-0.7217	5.7540	-3.1151	0.0138
2005	5-Jul	157	2	T	30	-541379.77	11.5900	-6.2746	17.1700	-9.2955	0.0115
2005	5-Jul	162	3	T	30	-541379.77	9.4990	-5.1426	24.2400	-13.1230	0.0000
2005	5-Jul	168	1	C	60	-493447.45	1.1850	-0.5847	5.8320	-2.8778	0.0049
2005	5-Jul	173	2	C	60	-493447.45	0.5684	-0.2805	4.5710	-2.2555	0.0096
2005	5-Jul	178	3	C	60	-493447.45	1.1400	-0.5625	2.4400	-1.2040	0.0061
2005	5-Jul	153	1	T	60	-521356.43	0.2938	-0.1532	2.4650	-1.2851	0.0000
2005	5-Jul	158	2	T	60	-521356.43	4.4520	-2.3211	9.9800	-5.2031	0.0172
2005	5-Jul	163	3	T	60	-521356.43	2.2350	-1.1652	10.0500	-5.2396	0.0000
2005	5-Jul	169	1	C	120	-460349.74	0.0309	-0.0142	0.6018	-0.2770	0.0122
2005	5-Jul	174	2	C	120	-460349.74	0.0129	-0.0059	1.6430	-0.7564	0.0000
2005	5-Jul	179	3	C	120	-460349.74	0.4278	-0.1969	2.0260	-0.9327	0.0246
2005	5-Jul	154	1	T	120	-468574.63	0.1626	-0.0762	1.1830	-0.5543	0.0065
2005	5-Jul	159	2	T	120	-468574.63	0.5895	-0.2762	2.9070	-1.3621	0.0245
2005	5-Jul	164	3	T	120	-468574.63	0.0133	-0.0062	0.2997	-0.1404	0.0200
2005	5-Jul		1	C	200	-440461.48					
2005	5-Jul	175	2	C	200	-440461.48	0.0235	-0.0104	0.1453	-0.0640	0.0017
2005	5-Jul	180	3	C	200	-440461.48	0.0000	0.0000	0.1265	-0.0557	0.0032
2005	5-Jul	155	1	T	200	-447520.00	0.0220	-0.0098	0.0608	-0.0272	0.0114
2005	5-Jul	160	2	T	200	-447520.00	0.0000	0.0000	0.3279	-0.1467	0.0083
2005	5-Jul	165	3	T	200	-447520.00	0.0000	0.0000	0.2183	-0.0977	0.0068
2005	12-Jul	196	1	C	15	-712914.63	5.7080	-4.0693	8.8520	-6.3107	0.0026
2005	12-Jul	201	2	C	15	-712914.63	0.0334	-0.0238	0.4742	-0.3381	0.0143
2005	12-Jul	206	3	C	15	-712914.63	1.0660	-0.7600	0.3998	-0.2850	0.0023
2005	12-Jul	181	1	T	15	-741550.90	0.0000	0.0000	5.9810	-4.4352	0.0000
2005	12-Jul	186	2	T	15	-741550.90	0.3121	-0.2314	3.2050	-2.3767	0.0000
2005	12-Jul	191	3	T	15	-741550.90	0.0000	0.0000	1.6930	-1.2554	0.0000
2005	12-Jul	197	1	C	30	-688984.29	0.6841	-0.4713	3.7160	-2.5603	0.0018
2005	12-Jul	202	2	C	30	-688984.29	0.0642	-0.0442	0.6657	-0.4587	0.0000
2005	12-Jul	207	3	C	30	-688984.29					
2005	12-Jul	182	1	T	30	-715466.88	1.6750	-1.1984	9.1590	-6.5530	0.0000
2005	12-Jul	187	2	T	30	-715466.88	14.1400	-10.1167	17.5500	-12.5564	0.0000
2005	12-Jul	192	3	T	30	-715466.88	8.2660	-5.9140	25.6400	-18.3446	0.0000
2005	12-Jul	198	1	C	60	-651803.96	0.6458	-0.4209	3.5620	-2.3217	0.0047
2005	12-Jul	203	2	C	60	-651803.96	0.7034	-0.4585	3.9290	-2.5609	0.0067
2005	12-Jul	208	3	C	60	-651803.96	1.4090	-0.9184	2.6700	-1.7403	0.0000
2005	12-Jul	183	1	T	60	-669427.06	1.3810	-0.9245	6.9540	-4.6552	0.0000

		#	rep	trt	depth	flux	Al3092	Al3092	Ca3179	Ca3179	Cu3247
year	date				cm	l/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2005	12-Jul	188	2	T	60	-669427.06	4.2330	-2.8337	10.6200	-7.1093	0.0000
2005	12-Jul	193	3	T	60	-669427.06	3.0490	-2.0411	14.3400	-9.5996	0.0000
2005	12-Jul	199	1	C	120	-614990.15	0.1875	-0.1153	2.4490	-1.5061	0.0000
2005	12-Jul	204	2	C	120	-614990.15	0.1124	-0.0691	0.8952	-0.5505	0.0075
2005	12-Jul	209	3	C	120	-614990.15	0.4938	-0.3037	1.7770	-1.0928	0.0000
2005	12-Jul	184	1	T	120	-624368.90	0.0062	-0.0039	0.8524	-0.5322	0.0000
2005	12-Jul	189	2	T	120	-624368.90	0.6617	-0.4131	3.2090	-2.0036	0.0069
2005	12-Jul	194	3	T	120	-624368.90	0.0000	0.0000	0.5834	-0.3643	0.0050
2005	12-Jul	200	1	C	200	-615087.42	0.0024	-0.0015	0.0293	-0.0180	0.0000
2005	12-Jul	205	2	C	200	-615087.42	0.0271	-0.0167	0.1841	-0.1132	0.0035
2005	12-Jul	210	3	C	200	-615087.42	0.0444	-0.0273	0.1266	-0.0779	0.0014
2005	12-Jul		1	T	200	-621768.96					
2005	12-Jul	190	2	T	200	-621768.96	0.0000	0.0000	0.3400	-0.2114	0.0000
2005	12-Jul	195	3	T	200	-621768.96	0.0940	-0.0584	0.2287	-0.1422	0.0058
2005	19-Jul	226	1	C	15	-1203978.75	0.8865	-1.0673	3.1190	-3.7552	0.0000
2005	19-Jul	231	2	C	15	-1203978.75	0.1222	-0.1471	0.5017	-0.6040	0.0033
2005	19-Jul	236	3	C	15	-1203978.75	12.6600	-15.2424	1.3050	-1.5712	0.0134
2005	19-Jul	211	1	T	15	-1236402.39	0.0260	-0.0321	8.5830	-10.6120	0.0007
2005	19-Jul	216	2	T	15	-1236402.39	0.0399	-0.0493	1.3630	-1.6852	0.0026
2005	19-Jul	221	3	T	15	-1236402.39	0.0414	-0.0512	0.8057	-0.9962	0.0000
2005	19-Jul	227	1	C	30	-1121468.07	0.3835	-0.4301	3.1890	-3.5764	0.0000
2005	19-Jul	232	2	C	30	-1121468.07	0.0595	-0.0667	0.4158	-0.4663	0.0017
2005	19-Jul	237	3	C	30	-1121468.07	3.2830	-3.6818	5.8300	-6.5382	0.0000
2005	19-Jul	212	1	T	30	-1152262.56	0.8877	-1.0229	5.9230	-6.8249	0.0000
2005	19-Jul	217	2	T	30	-1152262.56	15.2100	-17.5259	14.5600	-16.7769	0.0000
2005	19-Jul	222	3	T	30	-1152262.56	0.9887	-1.1392	7.0750	-8.1523	0.0000
2005	19-Jul	228	1	C	60	-976075.75	0.7656	-0.7473	4.3600	-4.2557	0.0000
2005	19-Jul	233	2	C	60	-976075.75	0.4961	-0.4842	2.6790	-2.6149	0.0003
2005	19-Jul	238	3	C	60	-976075.75	1.5150	-1.4788	3.0210	-2.9487	0.0027
2005	19-Jul	213	1	T	60	-999366.36	0.8966	-0.8960	5.4200	-5.4166	0.0000
2005	19-Jul	218	2	T	60	-999366.36	4.3510	-4.3482	9.9350	-9.9287	0.0000
2005	19-Jul	223	3	T	60	-999366.36	3.3020	-3.2999	14.6000	-14.5907	0.0038
2005	19-Jul	229	1	C	120	-765350.02	0.3317	-0.2539	1.2430	-0.9513	0.0000
2005	19-Jul	234	2	C	120	-765350.02	0.0486	-0.0372	1.7660	-1.3516	0.0070
2005	19-Jul	239	3	C	120	-765350.02	0.5276	-0.4038	2.4270	-1.8575	0.0058
2005	19-Jul	214	1	T	120	-773673.25	0.0543	-0.0420	0.5945	-0.4599	0.0000
2005	19-Jul	219	2	T	120	-773673.25	0.6949	-0.5376	3.0270	-2.3419	0.0244
2005	19-Jul	224	3	T	120	-773673.25	0.0690	-0.0534	0.4740	-0.3667	0.0000
2005	19-Jul	230	1	C	200	-612990.75	0.0000	0.0000	0.0249	-0.0153	0.0034
2005	19-Jul	235	2	C	200	-612990.75	0.0454	-0.0278	0.1561	-0.0957	0.0005
2005	19-Jul	240	3	C	200	-612990.75	0.0237	-0.0145	0.0876	-0.0537	0.0072
2005	19-Jul		1	T	200	-648399.24					
2005	19-Jul	220	2	T	200	-648399.24	0.0000	0.0000	0.2161	-0.1401	0.0046
2005	19-Jul	225	3	T	200	-648399.24	0.1155	-0.0749	0.2521	-0.1635	0.0000
2005	27-Jul	256	1	C	15	-628523.56	0.6458	-0.4059	2.2050	-1.3859	0.0000
2005	27-Jul	261	2	C	15	-628523.56	0.0599	-0.0376	1.4830	-0.9321	0.0027

		#	rep	trt	depth	flux	Al3092	Al3092	Ca3179	Ca3179	Cu3247
year	date				cm	l/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2005	27-Jul	266	3	C	15	-628523.56	4.9590	-3.1168	0.7040	-0.4425	0.0079
2005	27-Jul	241	1	T	15	-626414.27	0.0322	-0.0202	4.0890	-2.5614	0.0000
2005	27-Jul	246	2	T	15	-626414.27	0.0647	-0.0405	0.4614	-0.2890	0.0000
2005	27-Jul	251	3	T	15	-626414.27	0.0163	-0.0102	0.7192	-0.4505	0.0065
2005	27-Jul	257	1	C	30	-587207.34	0.9610	-0.5643	4.3540	-2.5567	0.0000
2005	27-Jul	262	2	C	30	-587207.34	13.6200	-7.9978	12.6200	-7.4106	0.0002
2005	27-Jul	267	3	C	30	-587207.34	3.1880	-1.8720	4.8150	-2.8274	0.0000
2005	27-Jul	242	1	T	30	-579756.07	0.4952	-0.2871	4.0680	-2.3584	0.0000
2005	27-Jul	247	2	T	30	-579756.07	0.0209	-0.0121	0.3200	-0.1855	0.0068
2005	27-Jul	252	3	T	30	-579756.07	0.1435	-0.0832	3.8270	-2.2187	0.0086
2005	27-Jul	258	1	C	60	-540832.56	1.0700	-0.5787	6.4080	-3.4657	0.0114
2005	27-Jul	263	2	C	60	-540832.56	5.4750	-2.9611	12.6900	-6.8632	0.0011
2005	27-Jul	268	3	C	60	-540832.56	1.5570	-0.8421	3.3470	-1.8102	0.0031
2005	27-Jul	243	1	T	60	-530160.93	2.0780	-1.1017	9.6370	-5.1092	0.0072
2005	27-Jul	248	2	T	60	-530160.93	0.3357	-0.1780	1.6750	-0.8880	0.0143
2005	27-Jul	253	3	T	60	-530160.93	3.5790	-1.8974	16.7000	-8.8537	0.0099
2005	27-Jul	259	1	C	120	-554252.45	0.2675	-0.1483	1.4920	-0.8269	0.0094
2005	27-Jul	264	2	C	120	-554252.45	0.7404	-0.4104	2.8270	-1.5669	0.0127
2005	27-Jul	269	3	C	120	-554252.45	0.4461	-0.2473	1.0340	-0.5731	0.0029
2005	27-Jul	244	1	T	120	-546906.67	0.0298	-0.0163	0.4376	-0.2393	0.0000
2005	27-Jul	249	2	T	120	-546906.67	0.0720	-0.0394	1.1000	-0.6016	0.0098
2005	27-Jul	254	3	T	120	-546906.67	0.0865	-0.0473	0.4245	-0.2322	0.0070
2005	27-Jul	260	1	C	200	-625910.72	0.0000	0.0000	0.0760	-0.0476	0.0062
2005	27-Jul	265	2	C	200	-625910.72	0.0000	0.0000	0.2480	-0.1552	0.0200
2005	27-Jul	270	3	C	200	-625910.72	0.0000	0.0000	0.1513	-0.0947	0.0062
2005	27-Jul	245	1	T	200	-620113.20	0.0680	-0.0422	0.0728	-0.0451	0.0038
2005	27-Jul	250	2	T	200	-620113.20	0.0037	-0.0023	0.1791	-0.1111	0.0163
2005	27-Jul	255	3	T	200	-620113.20	0.0268	-0.0166	0.2672	-0.1657	0.0121
2005	3-Aug	286	1	C	15	-430174.12	0.1534	-0.0660	1.0720	-0.4611	0.0000
2005	3-Aug	291	2	C	15	-430174.12	0.0705	-0.0303	0.4951	-0.2130	0.0012
2005	3-Aug	296	3	C	15	-430174.12	0.6056	-0.2605	0.2007	-0.0863	0.0034
2005	3-Aug	271	1	T	15	-431035.03	0.0453	-0.0195	4.4880	-1.9345	0.0029
2005	3-Aug	276	2	T	15	-431035.03	0.0000	0.0000	1.5270	-0.6582	0.0007
2005	3-Aug	281	3	T	15	-431035.03	0.0513	-0.0221	0.7417	-0.3197	0.0016
2005	3-Aug	287	1	C	30	-389767.79	0.7040	-0.2744	2.6430	-1.0302	0.0109
2005	3-Aug	292	2	C	30	-389767.79	0.0000	0.0000	0.3456	-0.1347	0.0134
2005	3-Aug	297	3	C	30	-389767.79	2.6470	-1.0317	3.8270	-1.4916	0.0070
2005	3-Aug	272	1	T	30	-390179.00	0.0294	-0.0115	1.5290	-0.5966	0.0069
2005	3-Aug	277	2	T	30	-390179.00	12.6800	-4.9475	10.4800	-4.0891	0.0000
2005	3-Aug	282	3	T	30	-390179.00	0.1316	-0.0513	1.6140	-0.6297	0.0000
2005	3-Aug	288	1	C	60	-316938.27	1.2790	-0.4054	6.9710	-2.2094	0.0067
2005	3-Aug	293	2	C	60	-316938.27	0.0666	-0.0211	1.3600	-0.4310	0.0037
2005	3-Aug	298	3	C	60	-316938.27	2.0490	-0.6494	4.0010	-1.2681	0.0214
2005	3-Aug	273	1	T	60	-316443.06	2.1800	-0.6898	10.1500	-3.2119	0.0026
2005	3-Aug	278	2	T	60	-316443.06	5.7110	-1.8072	13.4300	-4.2498	0.0000
2005	3-Aug	283	3	T	60	-316443.06	3.5950	-1.1376	16.2600	-5.1454	0.0023

		#	rep	trt	depth	flux	Al3092	Al3092	Ca3179	Ca3179	Cu3247
year	date				cm	l/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2005	3-Aug	289	1	C	120	-267176.80	0.2864	-0.0765	1.3140	-0.3511	0.0046
2005	3-Aug	294	2	C	120	-267176.80	0.0000	0.0000	1.0860	-0.2902	0.0086
2005	3-Aug	299	3	C	120	-267176.80	0.5431	-0.1451	1.0030	-0.2680	0.0050
2005	3-Aug	274	1	T	120	-266829.44	0.0583	-0.0156	0.4670	-0.1246	0.0062
2005	3-Aug	279	2	T	120	-266829.44	0.8935	-0.2384	3.1090	-0.8296	0.0289
2005	3-Aug	284	3	T	120	-266829.44	0.1154	-0.0308	0.4067	-0.1085	0.0080
2005	3-Aug	290	1	C	200	-328443.25	0.0646	-0.0212	0.0397	-0.0130	0.0012
2005	3-Aug	295	2	C	200	-328443.25	0.0342	-0.0112	0.2063	-0.0678	0.0034
2005	3-Aug	300	3	C	200	-328443.25	0.0112	-0.0037	0.1635	-0.0537	0.0174
2005	3-Aug	275	1	T	200	-328021.49	0.0518	-0.0170	0.0841	-0.0276	0.0098
2005	3-Aug	280	2	T	200	-328021.49	0.1204	-0.0395	0.2303	-0.0755	0.0017
2005	3-Aug	285	3	T	200	-328021.49	0.0567	-0.0186	0.2481	-0.0814	0.0034
2005	10-Aug	316	1	C	15	-535456.98	0.0000	0.0000	0.6274	-0.3359	0.0190
2005	10-Aug	321	2	C	15	-535456.98	0.0970	-0.0519	0.7196	-0.3853	0.0036
2005	10-Aug	326	3	C	15	-535456.98	0.0000	0.0000	0.0850	-0.0455	0.0145
2005	10-Aug	301	1	T	15	-536273.99	0.0000	0.0000	5.5700	-2.9870	0.0126
2005	10-Aug	306	2	T	15	-536273.99	0.0211	-0.0113	2.0150	-1.0806	0.0103
2005	10-Aug	311	3	T	15	-536273.99	0.0000	0.0000	1.0570	-0.5668	0.0107
2005	10-Aug	317	1	C	30	-549304.95	0.1495	-0.0821	1.8170	-0.9981	0.0204
2005	10-Aug	322	2	C	30	-549304.95	0.0000	0.0000	0.4530	-0.2488	0.0205
2005	10-Aug	327	3	C	30	-549304.95	1.6120	-0.8855	2.4620	-1.3524	0.0000
2005	10-Aug	302	1	T	30	-543996.79	0.0000	0.0000	0.9866	-0.5367	0.0059
2005	10-Aug	307	2	T	30	-543996.79	10.0900	-5.4889	8.1520	-4.4347	0.0014
2005	10-Aug	312	3	T	30	-543996.79	0.0000	0.0000	1.3030	-0.7088	0.0000
2005	10-Aug	318	1	C	60	-539669.39	1.2280	-0.6627	7.4790	-4.0362	0.0112
2005	10-Aug	323	2	C	60	-539669.39	0.2562	-0.1383	3.9420	-2.1274	0.0150
2005	10-Aug	328	3	C	60	-539669.39	2.0270	-1.0939	3.9990	-2.1581	0.0044
2005	10-Aug	303	1	T	60	-535355.61	2.3170	-1.2404	10.8300	-5.7979	0.0052
2005	10-Aug	308	2	T	60	-535355.61	6.1460	-3.2903	14.5900	-7.8108	0.0000
2005	10-Aug	313	3	T	60	-535355.61	3.5700	-1.9112	15.2200	-8.1481	0.0132
2005	10-Aug	319	1	C	120	-378925.51	0.1886	-0.0715	1.3760	-0.5214	0.0195
2005	10-Aug	324	2	C	120	-378925.51	0.0344	-0.0130	1.2600	-0.4774	0.0096
2005	10-Aug	329	3	C	120	-378925.51	0.5747	-0.2178	0.9860	-0.3736	0.0118
2005	10-Aug	304	1	T	120	-378470.15	0.0000	0.0000	0.5042	-0.1908	0.0122
2005	10-Aug	309	2	T	120	-378470.15	0.8967	-0.3394	3.0660	-1.1604	0.0304
2005	10-Aug	314	3	T	120	-378470.15	0.0000	0.0000	0.4438	-0.1680	0.0138
2005	10-Aug	320	1	C	200	-296558.19	0.0000	0.0000	0.0675	-0.0200	0.0071
2005	10-Aug	325	2	C	200	-296558.19	0.0000	0.0000	0.1960	-0.0581	0.0044
2005	10-Aug	330	3	C	200	-296558.19	0.0000	0.0000	0.1603	-0.0475	0.0093
2005	10-Aug	305	1	T	200	-295748.04	0.0055	-0.0016	0.1203	-0.0356	0.0121
2005	10-Aug	310	2	T	200	-295748.04	0.0000	0.0000	0.2397	-0.0709	0.0078
2005	10-Aug	315	3	T	200	-295748.04	0.0000	0.0000	0.2633	-0.0779	0.0012
2005	17-Aug	346	1	C	15	-308004.02			0.5121	-0.1577	0.0000
2005	17-Aug	351	2	C	15	-308004.02	0.0167	-0.0051	0.6474	-0.1994	0.0000
2005	17-Aug	356	3	C	15	-308004.02			0.0865	-0.0266	0.0000

		#	rep	trt	depth	flux	Al3092	Al3092	Ca3179	Ca3179	Cu3247
year	date				cm	l/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2005	17-Aug	331	1	T	15	-309022.03	0.2853	-0.0882	3.3250	-1.0275	0.0000
2005	17-Aug	336	2	T	15	-309022.03	0.0314	-0.0097	2.2760	-0.7033	0.0000
2005	17-Aug	341	3	T	15	-309022.03	0.0893	-0.0276	1.7000	-0.5253	0.0000
2005	17-Aug	347	1	C	30	-287277.24	0.1432	-0.0411	1.0230	-0.2939	0.0000
2005	17-Aug	352	2	C	30	-287277.24			0.3980	-0.1143	0.0000
2005	17-Aug	357	3	C	30	-287277.24	0.8096	-0.2326	1.3110	-0.3766	0.0000
2005	17-Aug	332	1	T	30	-282103.44	0.0112	-0.0032	0.7136	-0.2013	0.0000
2005	17-Aug	337	2	T	30	-282103.44	7.7360	-2.1824	5.8990	-1.6641	0.0000
2005	17-Aug	342	3	T	30	-282103.44			1.1710	-0.3303	0.0000
2005	17-Aug	348	1	C	60	-255186.71	1.4370	-0.3667	7.1350	-1.8208	0.0000
2005	17-Aug	353	2	C	60	-255186.71	0.0940	-0.0240	2.3660	-0.6038	0.0000
2005	17-Aug	358	3	C	60	-255186.71	2.0300	-0.5180	3.8250	-0.9761	0.0000
2005	17-Aug	333	1	T	60	-250186.06	2.2310	-0.5582	10.4900	-2.6245	0.0000
2005	17-Aug	338	2	T	60	-250186.06	6.4610	-1.6165	15.9000	-3.9780	0.0000
2005	17-Aug	343	3	T	60	-250186.06	3.4750	-0.8694	13.1800	-3.2975	0.0000
2005	17-Aug	349	1	C	120	-249510.03	0.3073	-0.0767	1.6910	-0.4219	0.0000
2005	17-Aug	354	2	C	120	-249510.03	0.0394	-0.0098	1.4000	-0.3493	0.0000
2005	17-Aug	359	3	C	120	-249510.03	0.5490	-0.1370	0.9459	-0.2360	0.0000
2005	17-Aug	334	1	T	120	-242079.35	0.0788	-0.0191	0.4670	-0.1131	0.0000
2005	17-Aug	339	2	T	120	-242079.35	0.9034	-0.2187	3.0970	-0.7497	0.0000
2005	17-Aug	344	3	T	120	-242079.35	0.0000	0.0000	0.3896	-0.0943	0.0000
2005	17-Aug	350	1	C	200	-333678.36	0.0721	-0.0241	0.0857	-0.0286	0.0000
2005	17-Aug	355	2	C	200	-333678.36			0.1801	-0.0601	0.0000
2005	17-Aug	360	3	C	200	-333678.36			0.1973	-0.0658	0.0000
2005	17-Aug	335	1	T	200	-325319.80			0.0803	-0.0261	0.0000
2005	17-Aug	340	2	T	200	-325319.80			0.2520	-0.0820	0.0000
2005	17-Aug	345	3	T	200	-325319.80	0.0000	0.0000	0.2797	-0.0910	0.0000
2005	24-Aug	376	1	C	15	-904824.05	0.1379	-0.1248	0.5418	-0.4902	0.0031
2005	24-Aug	381	2	C	15	-904824.05	0.1351	-0.1222	0.7806	-0.7063	0.0076
2005	24-Aug		3	C	15	-904824.05					
2005	24-Aug	361	1	T	15	-890618.92	0.3132	-0.2789	7.3880	-6.5799	0.0000
2005	24-Aug	366	2	T	15	-890618.92			3.6090	-3.2142	0.0123
2005	24-Aug		3	T	15	-890618.92					
2005	24-Aug	377	1	C	30	-833919.27	0.1147	-0.0957	1.1610	-0.9682	0.0050
2005	24-Aug	382	2	C	30	-833919.27	0.1294	-0.1079	0.4742	-0.3954	0.0059
2005	24-Aug		3	C	30	-833919.27					
2005	24-Aug	362	1	T	30	-830799.31	0.1421	-0.1181	0.5718	-0.4751	0.0083
2005	24-Aug	367	2	T	30	-830799.31	4.3940	-3.6505	3.4950	-2.9036	0.0000
2005	24-Aug		3	T	30	-830799.31					
2005	24-Aug	378	1	C	60	-719002.55	1.5500	-1.1145	7.3640	-5.2947	0.0051
2005	24-Aug	383	2	C	60	-719002.55			1.9210	-1.3812	0.0090
2005	24-Aug		3	C	60	-719002.55					
2005	24-Aug	363	1	T	60	-716189.46	1.5830	-1.1337	8.2340	-5.8971	0.0000
2005	24-Aug	368	2	T	60	-716189.46	6.4360	-4.6094	17.3300	-12.4116	0.0027
2005	24-Aug		3	T	60	-716189.46					
2005	24-Aug	379	1	C	120	-543727.28	0.2589	-0.1408	1.5050	-0.8183	0.0000

		#	rep	trt	depth	flux	Al3092	Al3092	Ca3179	Ca3179	Cu3247
year	date				cm	l/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2005	24-Aug	384	2	C	120	-543727.28	0.1274	-0.0693	1.3870	-0.7541	0.0044
2005	24-Aug		3	C	120	-543727.28					
2005	24-Aug	364	1	T	120	-546115.09	0.1798	-0.0982	0.6609	-0.3609	0.0089
2005	24-Aug	369	2	T	120	-546115.09	0.9234	-0.5043	2.8060	-1.5324	0.0241
2005	24-Aug		3	T	120	-546115.09					
2005	24-Aug	380	1	C	200	-400027.86	0.1365	-0.0546	0.0612	-0.0245	0.0149
2005	24-Aug	385	2	C	200	-400027.86	0.1272	-0.0509	0.3226	-0.1290	0.0063
2005	24-Aug		3	C	200	-400027.86					
2005	24-Aug	365	1	T	200	-401208.36	0.0436	-0.0175	0.1085	-0.0435	0.0000
2005	24-Aug	370	2	T	200	-401208.36			0.2476	-0.0993	0.0057
2005	24-Aug		3	T	200	-401208.36					
2005	31-Aug	406	1	C	15	-52530.36	0.0000	0.0000	0.6061	-0.0318	0.0002
2005	31-Aug	411	2	C	15	-52530.36	0.0000	0.0000	0.5765	-0.0303	0.0027
2005	31-Aug	416	3	C	15	-52530.36	0.0000	0.0000	0.1469	-0.0077	0.0038
2005	31-Aug	391	1	T	15	-49645.25	0.0000	0.0000	6.5760	-0.3265	0.0029
2005	31-Aug	396	2	T	15	-49645.25	0.0000	0.0000	3.8880	-0.1930	0.0000
2005	31-Aug	401	3	T	15	-49645.25	0.0000	0.0000	2.1190	-0.1052	0.0118
2005	31-Aug	407	1	C	30	-112954.10	0.0000	0.0000	0.9625	-0.1087	0.0241
2005	31-Aug	412	2	C	30	-112954.10	0.0000	0.0000	0.5950	-0.0672	0.0112
2005	31-Aug	417	3	C	30	-112954.10	0.2333	-0.0264	0.5520	-0.0624	0.0138
2005	31-Aug	392	1	T	30	-76928.41	0.0000	0.0000	0.6176	-0.0475	0.0009
2005	31-Aug	397	2	T	30	-76928.41	2.5070	-0.1929	2.3520	-0.1809	0.0016
2005	31-Aug	402	3	T	30	-76928.41	0.0000	0.0000	1.2450	-0.0958	0.0045
2005	31-Aug	408	1	C	60	-237500.61	1.8260	-0.4337	8.3680	-1.9874	0.0190
2005	31-Aug	413	2	C	60	-237500.61	0.1750	-0.0416	1.2230	-0.2905	0.0110
2005	31-Aug	418	3	C	60	-237500.61	1.5980	-0.3795	3.2030	-0.7607	0.0004
2005	31-Aug	393	1	T	60	-203667.67	1.3540	-0.2758	7.3080	-1.4884	0.0009
2005	31-Aug	398	2	T	60	-203667.67	5.3550	-1.0906	16.0600	-3.2709	0.0029
2005	31-Aug	403	3	T	60	-203667.67	3.2900	-0.6701	11.2100	-2.2831	0.0099
2005	31-Aug	409	1	C	120	-426795.81	0.4503	-0.1922	1.5410	-0.6577	0.0124
2005	31-Aug	414	2	C	120	-426795.81	0.2356	-0.1006	1.2000	-0.5122	0.0063
2005	31-Aug	419	3	C	120	-426795.81	0.5976	-0.2551	2.0160	-0.8604	0.0071
2005	31-Aug	394	1	T	120	-414037.58	0.0000	0.0000	0.5509	-0.2281	0.0120
2005	31-Aug	399	2	T	120	-414037.58	1.2500	-0.5175	3.2120	-1.3299	0.0301
2005	31-Aug	404	3	T	120	-414037.58	0.0000	0.0000	0.4930	-0.2041	0.0105
2005	31-Aug	410	1	C	200	-566096.91	0.0000	0.0000	0.0754	-0.0427	0.0027
2005	31-Aug	415	2	C	200	-566096.91	0.1620	-0.0917	0.2553	-0.1445	0.0114
2005	31-Aug	420	3	C	200	-566096.91	0.0000	0.0000	0.2061	-0.1167	0.0000
2005	31-Aug	395	1	T	200	-555338.14	0.0000	0.0000	0.0742	-0.0412	0.0021
2005	31-Aug	400	2	T	200	-555338.14	0.0000	0.0000	0.2415	-0.1341	0.0000
2005	31-Aug	405	3	T	200	-555338.14	0.0000	0.0000	0.2951	-0.1639	0.0075
2005	7-Sep	436	1	C	15	-50282.86	0.0000	0.0000	0.7244	-0.0364	0.0137
2005	7-Sep	441	2	C	15	-50282.86	0.0000	0.0000	0.5502	-0.0277	0.0000
2005	7-Sep	446	3	C	15	-50282.86	0.1488	-0.0075	0.1472	-0.0074	0.0000
2005	7-Sep	421	1	T	15	-50339.66	0.2175	-0.0109	8.2630	-0.4160	0.0000
2005	7-Sep	426	2	T	15	-50339.66	0.4700	-0.0237	5.9920	-0.3016	0.0173

		#	rep	trt	depth	flux	Al3092	Al3092	Ca3179	Ca3179	Cu3247
year	date				cm	l/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2005	7-Sep	431	3	T	15	-50339.66	0.1073	-0.0054	1.8640	-0.0938	0.0208
2005	7-Sep	437	1	C	30	-59227.59	0.0000	0.0000	0.6104	-0.0362	0.0100
2005	7-Sep	442	2	C	30	-59227.59	0.0000	0.0000	0.6067	-0.0359	0.0081
2005	7-Sep	447	3	C	30	-59227.59	0.2641	-0.0156	1.3269	-0.0786	0.0157
2005	7-Sep	422	1	T	30	-58289.37	0.0000	0.0000	0.5542	-0.0323	0.0000
2005	7-Sep	427	2	T	30	-58289.37	2.1130	-0.1232	2.1060	-0.1228	0.0058
2005	7-Sep	432	3	T	30	-58289.37	0.0000	0.0000	1.6750	-0.0976	0.0080
2005	7-Sep	438	1	C	60	-72036.75	1.8920	-0.1363	8.4350	-0.6076	0.0000
2005	7-Sep	443	2	C	60	-72036.75	0.0000	0.0000	1.5540	-0.1119	0.0094
2005	7-Sep	448	3	C	60	-72036.75	1.5340	-0.1105	2.6950	-0.1941	0.0000
2005	7-Sep	423	1	T	60	-71597.34	1.0350	-0.0741	6.4630	-0.4627	0.0000
2005	7-Sep	428	2	T	60	-71597.34	4.6380	-0.3321	15.5400	-1.1126	0.0000
2005	7-Sep	433	3	T	60	-71597.34	3.0820	-0.2207	9.2740	-0.6640	0.0089
2005	7-Sep	439	1	C	120	-109618.38	0.3376	-0.0370	1.4130	-0.1549	0.0177
2005	7-Sep	444	2	C	120	-109618.38	0.0000	0.0000	1.2720	-0.1394	0.0014
2005	7-Sep	449	3	C	120	-109618.38	0.5858	-0.0642	2.6510	-0.2906	0.0016
2005	7-Sep	424	1	T	120	-107289.63	0.1238	-0.0133	0.4701	-0.0504	0.0000
2005	7-Sep	429	2	T	120	-107289.63	0.9584	-0.1028	3.0140	-0.3234	0.0176
2005	7-Sep	434	3	T	120	-107289.63	0.1466	-0.0157	0.3645	-0.0391	0.0119
2005	7-Sep	440	1	C	200	-199723.93	0.0000	0.0000	0.0473	-0.0094	0.0069
2005	7-Sep	445	2	C	200	-199723.93	0.0000	0.0000	0.2828	-0.0565	0.0033
2005	7-Sep	450	3	C	200	-199723.93	0.0710	-0.0142	0.1763	-0.0352	0.0000
2005	7-Sep	425	1	T	200	-195206.50	0.0000	0.0000	0.0432	-0.0084	0.0000
2005	7-Sep	430	2	T	200	-195206.50	0.0910	-0.0178	0.2304	-0.0450	0.0060
2005	7-Sep	435	3	T	200	-195206.50	0.0480	-0.0094	0.2320	-0.0453	0.0036
2005	13-Sep	466	1	C	15	-101204.97	0.1525	-0.0154	1.2460	-0.1261	0.0028
2005	13-Sep	471	2	C	15	-101204.97			0.6177	-0.0625	0.0000
2005	13-Sep	476	3	C	15	-101204.97	0.1823	-0.0184	0.2115	-0.0214	0.0041
2005	13-Sep	451	1	T	15	-105390.83			8.0890	-0.8525	0.0076
2005	13-Sep	456	2	T	15	-105390.83	0.5166	-0.0544	7.2100	-0.7599	0.0000
2005	13-Sep	461	3	T	15	-105390.83			2.5840	-0.2723	0.0000
2005	13-Sep	467	1	C	30	-86435.15	0.0900	-0.0078	0.8247	-0.0713	0.0106
2005	13-Sep	472	2	C	30	-86435.15	0.0000	0.0000	0.8988	-0.0777	0.0017
2005	13-Sep	477	3	C	30	-86435.15	0.2183	-0.0189	1.0996	-0.0950	0.0131
2005	13-Sep	452	1	T	30	-85244.30	0.3139	-0.0268	0.6416	-0.0547	0.0099
2005	13-Sep	457	2	T	30	-85244.30	1.8300	-0.1560	2.0770	-0.1771	0.0000
2005	13-Sep	462	3	T	30	-85244.30			2.5230	-0.2151	0.0000
2005	13-Sep	468	1	C	60	-70367.04	1.8320	-0.1289	8.1360	-0.5725	0.0014
2005	13-Sep	473	2	C	60	-70367.04			1.8470	-0.1300	0.0175
2005	13-Sep	478	3	C	60	-70367.04	1.3990	-0.0984	2.6600	-0.1872	0.0013
2005	13-Sep	453	1	T	60	-70162.18	1.3410	-0.0941	7.4010	-0.5193	0.0006
2005	13-Sep	458	2	T	60	-70162.18	4.9700	-0.3487	16.3400	-1.1465	0.0000
2005	13-Sep	463	3	T	60	-70162.18	3.2500	-0.2280	9.0830	-0.6373	0.0000
2005	13-Sep	469	1	C	120	-72294.91	0.3312	-0.0239	1.4190	-0.1026	0.0040
2005	13-Sep	474	2	C	120	-72294.91	0.2771	-0.0200	1.4030	-0.1014	0.0000
2005	13-Sep	479	3	C	120	-72294.91	0.5427	-0.0392	3.0840	-0.2230	0.0000

		#	rep	trt	depth	flux	Al3092	Al3092	Ca3179	Ca3179	Cu3247
year	date				cm	l/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2005	13-Sep	454	1	T	120	-70675.37	0.1573	-0.0111	0.4844	-0.0342	0.0000
2005	13-Sep	459	2	T	120	-70675.37	1.0510	-0.0743	3.1990	-0.2261	0.0185
2005	13-Sep	464	3	T	120	-70675.37			0.4093	-0.0289	0.0000
2005	13-Sep	470	1	C	200	-112904.06	0.0724	-0.0082	0.0802	-0.0091	0.0086
2005	13-Sep	475	2	C	200	-112904.06	0.0000	0.0000	0.2232	-0.0252	0.0000
2005	13-Sep	480	3	C	200	-112904.06	0.0497	-0.0056	0.1810	-0.0204	0.0116
2005	13-Sep	455	1	T	200	-110378.98			0.0654	-0.0072	0.0000
2005	13-Sep	460	2	T	200	-110378.98	0.1040	-0.0115	0.3054	-0.0337	0.0000
2005	13-Sep	465	3	T	200	-110378.98	0.0000	0.0000	0.2872	-0.0317	0.0000
2005	20-Sep	496	1	C	15	46918.04	3.5190	0.1651	6.1790	0.2899	0.0000
2005	20-Sep	501	2	C	15	46918.04	0.1790	0.0084	1.1780	0.0553	0.0007
2005	20-Sep	506	3	C	15	46918.04	13.2300	0.6207	1.9820	0.0930	0.0000
2005	20-Sep	481	1	T	15	46384.73	0.3074	0.0143	7.5980	0.3524	0.0000
2005	20-Sep	486	2	T	15	46384.73	0.5493	0.0255	8.1140	0.3764	0.0038
2005	20-Sep	491	3	T	15	46384.73	0.0102	0.0005	6.6620	0.3090	0.0001
2005	20-Sep	497	1	C	30	632.64			0.9955	0.0006	0.0000
2005	20-Sep	502	2	C	30	632.64			1.4320	0.0009	0.0000
2005	20-Sep	507	3	C	30	632.64	0.4032	0.0003	3.2446	0.0021	0.0143
2005	20-Sep	482	1	T	30	214.24	0.0685	0.0000	1.0810	0.0002	0.0000
2005	20-Sep	487	2	T	30	214.24	2.0440	0.0004	2.4400	0.0005	0.0000
2005	20-Sep	492	3	T	30	214.24			3.2330	0.0007	0.0000
2005	20-Sep	498	1	C	60	-43407.80	1.8830	-0.0817	8.0600	-0.3499	0.0018
2005	20-Sep	503	2	C	60	-43407.80			1.8610	-0.0808	0.0072
2005	20-Sep	508	3	C	60	-43407.80	1.6180	-0.0702	3.1450	-0.1365	0.0000
2005	20-Sep	483	1	T	60	-43472.67	1.0870	-0.0473	6.7290	-0.2925	0.0000
2005	20-Sep	488	2	T	60	-43472.67	5.2400	-0.2278	16.4900	-0.7169	0.0066
2005	20-Sep	493	3	T	60	-43472.67	3.7890	-0.1647	9.4660	-0.4115	0.0000
2005	20-Sep	499	1	C	120	-82600.57	0.1985	-0.0164	1.6100	-0.1330	0.0239
2005	20-Sep	504	2	C	120	-82600.57	0.1963	-0.0162	1.5780	-0.1303	0.0097
2005	20-Sep	509	3	C	120	-82600.57	0.4349	-0.0359	3.8370	-0.3169	0.0062
2005	20-Sep	484	1	T	120	-82446.65	0.0000	0.0000	0.7266	-0.0599	0.0016
2005	20-Sep	489	2	T	120	-82446.65	1.1430	-0.0942	3.5410	-0.2919	0.0019
2005	20-Sep	494	3	T	120	-82446.65	0.0000	0.0000	0.6894	-0.0568	0.0000
2005	20-Sep	500	1	C	200	-106438.93			0.2408	-0.0256	0.0000
2005	20-Sep	505	2	C	200	-106438.93	0.0925	-0.0098	0.5005	-0.0533	0.0000
2005	20-Sep	510	3	C	200	-106438.93			0.4839	-0.0515	0.0000
2005	20-Sep	485	1	T	200	-106357.05	0.0119	-0.0013	0.2814	-0.0299	0.0000
2005	20-Sep	490	2	T	200	-106357.05	0.0000	0.0000	0.6641	-0.0706	0.0000
2005	20-Sep	495	3	T	200	-106357.05			0.4928	-0.0524	0.0000
2005	28-Sep	526	1	C	15	-540468.12	5.6150	-3.0347	9.1400	-4.9399	0.0138
2005	28-Sep	531	2	C	15	-540468.12	0.8037	-0.4344	1.6610	-0.8977	0.0146
2005	28-Sep	536	3	C	15	-540468.12	11.8600	-6.4100	1.7670	-0.9550	0.0128
2005	28-Sep	511	1	T	15	-538381.73	0.2191	-0.1180	20.2500	-10.9022	0.0237
2005	28-Sep	516	2	T	15	-538381.73	2.7590	-1.4854	13.9800	-7.5266	0.0000
2005	28-Sep	521	3	T	15	-538381.73	0.4112	-0.2214	32.4400	-17.4651	0.0063
2005	28-Sep	527	1	C	30	-493666.06			2.2210	-1.0964	0.0079

		#	rep	trt	depth	flux	Al3092	Al3092	Ca3179	Ca3179	Cu3247
year	date				cm	l/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2005	28-Sep	532	2	C	30	-493666.06	0.5037	-0.2487	6.0880	-3.0054	0.0215
2005	28-Sep	537	3	C	30	-493666.06	4.0250	-1.9870	2.3480	-1.1591	0.0164
2005	28-Sep	512	1	T	30	-494915.38	0.0994	-0.0492	3.3000	-1.6332	0.0052
2005	28-Sep	517	2	T	30	-494915.38	1.2650	-0.6261	2.8230	-1.3971	0.0000
2005	28-Sep	522	3	T	30	-494915.38	0.5635	-0.2789	5.7580	-2.8497	0.0118
2005	28-Sep	528	1	C	60	-417373.49	1.8130	-0.7567	7.7200	-3.2221	0.0072
2005	28-Sep	533	2	C	60	-417373.49	0.2159	-0.0901	3.3810	-1.4111	0.0172
2005	28-Sep	538	3	C	60	-417373.49	1.4500	-0.6052	3.3290	-1.3894	0.0016
2005	28-Sep	513	1	T	60	-418875.85	0.8997	-0.3769	6.2500	-2.6180	0.0041
2005	28-Sep	518	2	T	60	-418875.85	5.2840	-2.2133	14.5100	-6.0779	0.0002
2005	28-Sep	523	3	T	60	-418875.85	3.4400	-1.4409	7.8900	-3.3049	0.0230
2005	28-Sep	529	1	C	120	-292601.53	0.3493	-0.1022	2.5060	-0.7333	0.0137
2005	28-Sep	534	2	C	120	-292601.53	0.2391	-0.0700	2.6490	-0.7751	0.0070
2005	28-Sep	539	3	C	120	-292601.53	0.4585	-0.1342	3.1500	-0.9217	0.0226
2005	28-Sep	514	1	T	120	-292085.77	0.0000	0.0000	0.7872	-0.2299	0.0074
2005	28-Sep	519	2	T	120	-292085.77	1.0930	-0.3192	3.4160	-0.9978	0.0267
2005	28-Sep	524	3	T	120	-292085.77	0.0000	0.0000	0.7966	-0.2327	0.0007
2005	28-Sep	530	1	C	200	-154858.67	0.0000	0.0000	0.2547	-0.0394	0.0029
2005	28-Sep	535	2	C	200	-154858.67	0.1372	-0.0212	1.0120	-0.1567	0.0144
2005	28-Sep	540	3	C	200	-154858.67	0.0000	0.0000	0.4321	-0.0669	0.0070
2005	28-Sep	515	1	T	200	-153018.77	0.0000	0.0000	0.2817	-0.0431	0.0000
2005	28-Sep	520	2	T	200	-153018.77	0.0000	0.0000	0.7105	-0.1087	0.0077
2005	28-Sep	525	3	T	200	-153018.77	0.0000	0.0000	0.5927	-0.0907	0.0195
2005	4-Oct	556	1	C	15	-359149.88	0.0000	0.0000	0.4214	-0.1513	0.0000
2005	4-Oct	561	2	C	15	-359149.88	1.5530	-0.5578	2.0400	-0.7327	0.0125
2005	4-Oct	566	3	C	15	-359149.88	2.2870	-0.8214	5.6500	-2.0292	0.0058
2005	4-Oct	541	1	T	15	-358211.18			15.7600	-5.6454	0.0000
2005	4-Oct	546	2	T	15	-358211.18	3.8420	-1.3762	14.7600	-5.2872	0.0000
2005	4-Oct	551	3	T	15	-358211.18	1.1760	-0.4213	46.7100	-16.7320	0.0061
2005	4-Oct	557	1	C	30	-314708.31	0.5978	-0.1881	3.3020	-1.0392	0.0012
2005	4-Oct	562	2	C	30	-314708.31	2.4510	-0.7714	13.1200	-4.1290	0.0031
2005	4-Oct	567	3	C	30	-314708.31	0.1322	-0.0416	2.9210	-0.9193	0.0000
2005	4-Oct	542	1	T	30	-312159.97	0.2949	-0.0921	3.1030	-0.9686	0.0007
2005	4-Oct	547	2	T	30	-312159.97	1.4470	-0.4517	3.4110	-1.0648	0.0000
2005	4-Oct	552	3	T	30	-312159.97	0.9356	-0.2921	6.7180	-2.0971	0.0000
2005	4-Oct	558	1	C	60	-250348.13	1.4390	-0.3603	3.7220	-0.9318	0.0000
2005	4-Oct	563	2	C	60	-250348.13			1.9630	-0.4914	0.0000
2005	4-Oct	568	3	C	60	-250348.13	1.9180	-0.4802	7.7750	-1.9465	0.0000
2005	4-Oct	543	1	T	60	-249158.89	1.0420	-0.2596	5.9390	-1.4798	0.0003
2005	4-Oct	548	2	T	60	-249158.89	5.7400	-1.4302	14.7000	-3.6626	0.0027
2005	4-Oct	553	3	T	60	-249158.89	3.4030	-0.8479	7.9330	-1.9766	0.0000
2005	4-Oct	559	1	C	120	-175915.77	0.2746	-0.0483	2.4950	-0.4389	0.0000
2005	4-Oct	564	2	C	120	-175915.77	0.3059	-0.0538	3.3680	-0.5925	0.0000
2005	4-Oct	569	3	C	120	-175915.77	0.9139	-0.1608	4.6490	-0.8178	0.0089
2005	4-Oct	544	1	T	120	-172549.04	0.0000	0.0000	1.4290	-0.2466	0.0077
2005	4-Oct	549	2	T	120	-172549.04	1.2670	-0.2186	3.5650	-0.6151	0.0004

		#	rep	trt	depth	flux	Al3092	Al3092	Ca3179	Ca3179	Cu3247
year	date				cm	l/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2005	4-Oct	554	3	T	120	-172549.04	0.0635	-0.0110	1.5000	-0.2588	0.0012
2005	4-Oct	560	1	C	200	-167630.00	0.0000	0.0000	1.2400	-0.2079	0.0038
2005	4-Oct	565	2	C	200	-167630.00	0.0000	0.0000	1.8980	-0.3182	0.0000
2005	4-Oct	570	3	C	200	-167630.00	0.0000	0.0000	0.9858	-0.1652	0.0000
2005	4-Oct	545	1	T	200	-163653.11	0.0000	0.0000	0.4009	-0.0656	0.0090
2005	4-Oct	550	2	T	200	-163653.11	0.0000	0.0000	0.8809	-0.1442	0.0000
2005	4-Oct	555	3	T	200	-163653.11			1.3160	-0.2154	0.0000
2005	11-Oct	586	1	C	15	-1765837.70	1.6960	-2.9949	5.7370	-10.1306	0.0006
2005	11-Oct	591	2	C	15	-1765837.70	1.3580	-2.3980	1.6340	-2.8854	0.0077
2005	11-Oct	596	3	C	15	-1765837.70	1.9890	-3.5123	0.6333	-1.1183	0.0000
2005	11-Oct	571	1	T	15	-1766159.87	0.6155	-1.0871	12.9200	-22.8188	0.0000
2005	11-Oct	576	2	T	15	-1766159.87	2.5380	-4.4825	10.1500	-17.9265	0.0000
2005	11-Oct	581	3	T	15	-1766159.87	0.5941	-1.0493	13.1000	-23.1367	0.0033
2005	11-Oct	587	1	C	30	-1777004.58	0.2839	-0.5045	1.6140	-2.8681	0.0000
2005	11-Oct	592	2	C	30	-1777004.58	2.7500	-4.8868	12.2600	-21.7861	0.0000
2005	11-Oct	597	3	C	30	-1777004.58	1.4100	-2.5056	1.5510	-2.7561	0.0072
2005	11-Oct	572	1	T	30	-1772825.86	1.0860	-1.9253	9.4580	-16.7674	0.0000
2005	11-Oct	577	2	T	30	-1772825.86	1.6230	-2.8773	3.9530	-7.0080	0.0101
2005	11-Oct	582	3	T	30	-1772825.86	1.3660	-2.4217	6.8210	-12.0924	0.0010
2005	11-Oct	588	1	C	60	-1772710.26	1.7900	-3.1732	5.4320	-9.6294	0.0000
2005	11-Oct	593	2	C	60	-1772710.26	0.5754	-1.0200	2.3180	-4.1091	0.0064
2005	11-Oct	598	3	C	60	-1772710.26	1.5170	-2.6892	2.4710	-4.3804	0.0056
2005	11-Oct	573	1	T	60	-1769392.43	0.8504	-1.5047	4.3280	-7.6579	0.0000
2005	11-Oct	578	2	T	60	-1769392.43	4.6530	-8.2330	11.4900	-20.3303	0.0028
2005	11-Oct	583	3	T	60	-1769392.43	2.9020	-5.1348	5.9580	-10.5420	0.0039
2005	11-Oct	589	1	C	120	-1723680.63	0.6208	-1.0701	1.9260	-3.3198	0.0036
2005	11-Oct	594	2	C	120	-1723680.63	0.4652	-0.8019	1.3280	-2.2890	0.0059
2005	11-Oct	599	3	C	120	-1723680.63	1.0110	-1.7426	1.9690	-3.3939	0.0057
2005	11-Oct	574	1	T	120	-1718143.05	0.4234	-0.7275	2.7410	-4.7094	0.0063
2005	11-Oct	579	2	T	120	-1718143.05	1.5050	-2.5858	3.0970	-5.3211	0.0157
2005	11-Oct	584	3	T	120	-1718143.05	0.3608	-0.6199	2.2580	-3.8796	0.0008
2005	11-Oct	590	1	C	200	-1574682.33	0.2659	-0.4187	0.3386	-0.5332	0.0157
2005	11-Oct	595	2	C	200	-1574682.33	0.2391	-0.3765	1.0870	-1.7117	0.0157
2005	11-Oct	600	3	C	200	-1574682.33	0.3086	-0.4859	0.6875	-1.0826	0.0061
2005	11-Oct	575	1	T	200	-1561357.22	0.1328	-0.2073	0.2916	-0.4553	0.0022
2005	11-Oct	580	2	T	200	-1561357.22	0.2668	-0.4166	0.7660	-1.1960	0.0073
2005	11-Oct	585	3	T	200	-1561357.22			0.5760	-0.8993	0.0000
2005	19-Oct	616	1	C	15	-88243.67	0.3400	-0.0300	5.3130	-0.4688	0.0000
2005	19-Oct	621	2	C	15	-88243.67	0.5337	-0.0471	1.5350	-0.1355	0.0000
2005	19-Oct	626	3	C	15	-88243.67	0.5132	-0.0453	0.6122	-0.0540	0.0078
2005	19-Oct	601	1	T	15	-90201.98	0.2618	-0.0236	7.5820	-0.6839	0.0000
2005	19-Oct	606	2	T	15	-90201.98	0.5365	-0.0484	4.1080	-0.3705	0.0040
2005	19-Oct	611	3	T	15	-90201.98	0.0337	-0.0030	5.5340	-0.4992	0.0036
2005	19-Oct	617	1	C	30	-118542.38	0.1874	-0.0222	3.7080	-0.4396	0.0101
2005	19-Oct	622	2	C	30	-118542.38	1.6610	-0.1969	8.5660	-1.0154	0.0009
2005	19-Oct	627	3	C	30	-118542.38	0.6571	-0.0779	1.4160	-0.1679	0.0000

year	date	#	rep	trt	depth cm	flux l/ha	Al3092 ug/ml	Al3092 kg/ha	Ca3179 ug/ml	Ca3179 kg/ha	Cu3247 ug/ml
2005	19-Oct	602	1	T	30	-119850.33	0.5082	-0.0609	4.6800	-0.5609	0.0000
2005	19-Oct	607	2	T	30	-119850.33	1.2660	-0.1517	4.2200	-0.5058	0.0000
2005	19-Oct	612	3	T	30	-119850.33	0.7693	-0.0922	5.0180	-0.6014	0.0000
2005	19-Oct	618	1	C	60	-181578.33	1.3870	-0.2518	5.1200	-0.9297	0.0020
2005	19-Oct	623	2	C	60	-181578.33	0.5327	-0.0967	2.6750	-0.4857	0.0008
2005	19-Oct	628	3	C	60	-181578.33	1.2060	-0.2190	2.1030	-0.3819	0.0040
2005	19-Oct	603	1	T	60	-181989.47	1.0720	-0.1951	5.5370	-1.0077	0.0257
2005	19-Oct	608	2	T	60	-181989.47	4.2330	-0.7704	10.5500	-1.9200	0.0163
2005	19-Oct	613	3	T	60	-181989.47	2.3850	-0.4340	4.8620	-0.8848	0.0103
2005	19-Oct	619	1	C	120	-297903.61	0.6189	-0.1844	3.0620	-0.9122	0.0000
2005	19-Oct	624	2	C	120	-297903.61	0.1697	-0.0506	2.3670	-0.7051	0.0039
2005	19-Oct	629	3	C	120	-297903.61			3.3490	-0.9977	0.0099
2005	19-Oct	604	1	T	120	-298461.49	0.1873	-0.0559	1.6560	-0.4943	0.0000
2005	19-Oct	609	2	T	120	-298461.49	1.4170	-0.4229	3.7270	-1.1124	0.0087
2005	19-Oct	614	3	T	120	-298461.49	0.0000	0.0000	0.6677	-0.1993	0.0013
2005	19-Oct	620	1	C	200	-446614.83	0.0000	0.0000	0.3695	-0.1650	0.0000
2005	19-Oct	625	2	C	200	-446614.83	0.1104	-0.0493	0.7750	-0.3461	0.0000
2005	19-Oct	630	3	C	200	-446614.83	0.1658	-0.0740	0.5976	-0.2669	0.0000
2005	19-Oct	605	1	T	200	-447604.84	0.1349	-0.0604	0.3955	-0.1770	0.0157
2005	19-Oct	610	2	T	200	-447604.84	0.0000	0.0000	0.4905	-0.2196	0.0000
2005	19-Oct	615	3	T	200	-447604.84	0.0413	-0.0185	0.5576	-0.2496	0.0035
2005	25-Oct	646	1	C	15	-777278.85	0.5270	-0.4096	5.7790	-4.4919	0.0089
2005	25-Oct	651	2	C	15	-777278.85	0.6372	-0.4953	1.3210	-1.0268	0.0000
2005	25-Oct	656	3	C	15	-777278.85	0.5487	-0.4265	0.3415	-0.2654	0.0050
2005	25-Oct	631	1	T	15	-767792.98			7.6140	-5.8460	0.0000
2005	25-Oct	636	2	T	15	-767792.98	1.0210	-0.7839	5.0140	-3.8497	0.0000
2005	25-Oct	641	3	T	15	-767792.98	0.3979	-0.3055	5.1390	-3.9457	0.0045
2005	25-Oct	647	1	C	30	-678889.41	0.1229	-0.0834	4.8270	-3.2770	0.0000
2005	25-Oct	652	2	C	30	-678889.41	2.0420	-1.3863	7.7830	-5.2838	0.0107
2005	25-Oct	657	3	C	30	-678889.41	1.6180	-1.0984	1.2380	-0.8405	0.0067
2005	25-Oct	632	1	T	30	-677533.18	0.8572	-0.5808	5.9570	-4.0361	0.0122
2005	25-Oct	637	2	T	30	-677533.18	1.2720	-0.8618	4.2000	-2.8456	0.0000
2005	25-Oct	642	3	T	30	-677533.18	1.9610	-1.3286	9.2680	-6.2794	0.0000
2005	25-Oct	648	1	C	60	-503597.58	1.8420	-0.9276	5.7390	-2.8901	0.0000
2005	25-Oct	653	2	C	60	-503597.58	0.6015	-0.3029	2.5450	-1.2817	0.0004
2005	25-Oct	658	3	C	60	-503597.58	1.5600	-0.7856	1.9340	-0.9740	0.0163
2005	25-Oct	633	1	T	60	-510284.49	1.0420	-0.5317	5.1890	-2.6479	0.0024
2005	25-Oct	638	2	T	60	-510284.49	4.2850	-2.1866	9.9990	-5.1023	0.0000
2005	25-Oct	643	3	T	60	-510284.49	2.7780	-1.4176	4.6560	-2.3759	0.0000
2005	25-Oct	649	1	C	120	-245543.72	0.7619	-0.1871	3.0110	-0.7393	0.0089
2005	25-Oct	654	2	C	120	-245543.72	0.4101	-0.1007	2.3200	-0.5697	0.0025
2005	25-Oct	659	3	C	120	-245543.72	0.8321	-0.2043	3.4630	-0.8503	0.0224
2005	25-Oct	634	1	T	120	-247739.96	0.2230	-0.0552	1.8510	-0.4586	0.0000
2005	25-Oct	639	2	T	120	-247739.96	1.5320	-0.3795	3.7380	-0.9261	0.0227
2005	25-Oct	644	3	T	120	-247739.96	0.1894	-0.0469	1.7330	-0.4293	0.0000
2005	25-Oct	650	1	C	200	-189615.92	0.0339	-0.0064	0.2682	-0.0509	0.0000

		#	rep	trt	depth	flux	Al3092	Al3092	Ca3179	Ca3179	Cu3247
year	date				cm	l/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2005	25-Oct	655	2	C	200	-189615.92	0.1741	-0.0330	0.7070	-0.1341	0.0144
2005	25-Oct	660	3	C	200	-189615.92	0.0000	0.0000	0.4156	-0.0788	0.0132
2005	25-Oct	635	1	T	200	-189751.48	0.0000	0.0000	0.2663	-0.0505	0.0128
2005	25-Oct	640	2	T	200	-189751.48	0.1582	-0.0300	0.6620	-0.1256	0.0000
2005	25-Oct	645	3	T	200	-189751.48			0.5346	-0.1014	0.0022
2005	1-Nov	676	1	C	15	-250394.08	0.5432	-0.1360	6.7350	-1.6864	0.0255
2005	1-Nov	681	2	C	15	-250394.08	0.5743	-0.1438	0.9202	-0.2304	0.0083
2005	1-Nov	686	3	C	15	-250394.08			0.2839	-0.0711	0.0067
2005	1-Nov	661	1	T	15	-280680.16			3.7530	-1.0534	0.0000
2005	1-Nov	666	2	T	15	-280680.16	1.8490	-0.5190	5.9340	-1.6656	0.0051
2005	1-Nov	671	3	T	15	-280680.16			3.9560	-1.1104	0.0000
2005	1-Nov	677	1	C	30	-250939.92	0.4495	-0.1128	5.6870	-1.4271	0.0000
2005	1-Nov	682	2	C	30	-250939.92	0.8518	-0.2138	6.0980	-1.5302	0.0083
2005	1-Nov	687	3	C	30	-250939.92	2.4030	-0.6030	2.6890	-0.6748	0.0054
2005	1-Nov	662	1	T	30	-211253.85	0.7099	-0.1500	5.9890	-1.2652	0.0102
2005	1-Nov	667	2	T	30	-211253.85	1.3820	-0.2920	4.5340	-0.9578	0.0000
2005	1-Nov	672	3	T	30	-211253.85	1.8600	-0.3929	7.6660	-1.6195	0.0035
2005	1-Nov	678	1	C	60	-297034.83	2.1780	-0.6469	5.6700	-1.6842	0.0096
2005	1-Nov	683	2	C	60	-297034.83	0.6744	-0.2003	2.3170	-0.6882	0.0000
2005	1-Nov	688	3	C	60	-297034.83	1.6580	-0.4925	2.0110	-0.5973	0.0000
2005	1-Nov	663	1	T	60	-245948.98	1.1230	-0.2762	5.2990	-1.3033	0.0000
2005	1-Nov	668	2	T	60	-245948.98	4.3090	-1.0598	9.3970	-2.3112	0.0000
2005	1-Nov	673	3	T	60	-245948.98	2.7470	-0.6756	4.4980	-1.1063	0.0042
2005	1-Nov	679	1	C	120	-505070.65	1.0180	-0.5142	3.6750	-1.8561	0.0214
2005	1-Nov	684	2	C	120	-505070.65					
2005	1-Nov	689	3	C	120	-505070.65	0.8033	-0.4057	3.0010	-1.5157	0.0000
2005	1-Nov	664	1	T	120	-445482.49	0.1504	-0.0670	2.5020	-1.1146	0.0028
2005	1-Nov	669	2	T	120	-445482.49	1.6680	-0.7431	3.5110	-1.5641	0.0219
2005	1-Nov	674	3	T	120	-445482.49	0.0000	0.0000	0.6684	-0.2978	0.0000
2005	1-Nov	680	1	C	200	-534813.04			0.2691	-0.1439	0.0093
2005	1-Nov	685	2	C	200	-534813.04			0.7780	-0.4161	0.0221
2005	1-Nov	690	3	C	200	-534813.04	0.3128	-0.1673	0.3895	-0.2083	0.0000
2005	1-Nov	665	1	T	200	-530157.42	0.0741	-0.0393	0.2822	-0.1496	0.0009
2005	1-Nov	670	2	T	200	-530157.42	0.2119	-0.1123	1.4580	-0.7730	0.0095
2005	1-Nov	675	3	T	200	-530157.42			0.4710	-0.2497	0.0031
2005	8-Nov	706	1	C	15	-242539.02	0.2318	-0.0562	3.5710	-0.8661	0.0000
2005	8-Nov	711	2	C	15	-242539.02	0.8519	-0.2066	1.1900	-0.2886	0.0096
2005	8-Nov	716	3	C	15	-242539.02			0.3066	-0.0744	0.0005
2005	8-Nov	691	1	T	15	-241757.22	0.6453	-0.1560	7.1000	-1.7165	0.0000
2005	8-Nov	696	2	T	15	-241757.22	0.7083	-0.1712	2.8610	-0.6917	0.0000
2005	8-Nov	701	3	T	15	-241757.22	0.3135	-0.0758	3.4040	-0.8229	0.0000
2005	8-Nov	707	1	C	30	-223231.46	0.8701	-0.1942	5.7820	-1.2907	0.0071
2005	8-Nov	712	2	C	30	-223231.46	0.8226	-0.1836	8.9042	-1.9877	0.0242
2005	8-Nov	717	3	C	30	-223231.46	1.6810	-0.3753	1.0400	-0.2322	0.0173
2005	8-Nov	692	1	T	30	-190285.69	0.5415	-0.1030	6.5030	-1.2374	0.0000
2005	8-Nov	697	2	T	30	-190285.69	1.4170	-0.2696	5.2060	-0.9906	0.0000

		#	rep	trt	depth	flux	Al3092	Al3092	Ca3179	Ca3179	Cu3247
year	date				cm	l/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2005	8-Nov	702	3	T	30	-190285.69	1.2480	-0.2375	6.0240	-1.1463	0.0216
2005	8-Nov	708	1	C	60	-212543.18	1.2300	-0.2614	4.9450	-1.0510	0.0000
2005	8-Nov	713	2	C	60	-212543.18	0.6142	-0.1305	2.6530	-0.5639	0.0070
2005	8-Nov	718	3	C	60	-212543.18	1.4860	-0.3158	1.8070	-0.3841	0.0128
2005	8-Nov	693	1	T	60	-203005.73	2.0480	-0.4158	5.5260	-1.1218	0.0000
2005	8-Nov	698	2	T	60	-203005.73	4.0130	-0.8147	9.1740	-1.8624	0.0015
2005	8-Nov	703	3	T	60	-203005.73	2.6050	-0.5288	3.8540	-0.7824	0.0064
2005	8-Nov	709	1	C	120	-220171.90			1.3300	-0.2928	0.0153
2005	8-Nov	714	2	C	120	-220171.90	0.1933	-0.0426	1.4830	-0.3265	0.0061
2005	8-Nov	719	3	C	120	-220171.90	0.6629	-0.1460	3.1920	-0.7028	0.0000
2005	8-Nov	694	1	T	120	-216481.36	1.1060	-0.2394	3.9710	-0.8596	0.0050
2005	8-Nov	699	2	T	120	-216481.36	1.7070	-0.3695	3.6960	-0.8001	0.0160
2005	8-Nov	704	3	T	120	-216481.36			0.7439	-0.1610	0.0189
2005	8-Nov	710	1	C	200	-261186.76			0.2601	-0.0679	0.0078
2005	8-Nov	715	2	C	200	-261186.76	0.0000	0.0000	0.7470	-0.1951	0.0194
2005	8-Nov	720	3	C	200	-261186.76	0.0000	0.0000	0.4055	-0.1059	0.0073
2005	8-Nov	695	1	T	200	-255804.50	0.0000	0.0000	0.2800	-0.0716	0.0000
2005	8-Nov	700	2	T	200	-255804.50			0.6117	-0.1565	0.0164
2005	8-Nov	705	3	T	200	-255804.50			0.5025	-0.1285	0.0125
2005	15-Nov	736	1	C	15	-369923.74	0.7074	-0.2617	8.3600	-3.0926	0.0133
2005	15-Nov	741	2	C	15	-369923.74	1.3410	-0.4961	1.3430	-0.4968	0.0000
2005	15-Nov	746	3	C	15	-369923.74	0.3219	-0.1191	0.3211	-0.1188	0.0000
2005	15-Nov	721	1	T	15	-376093.46			3.0380	-1.1426	0.0020
2005	15-Nov	726	2	T	15	-376093.46	0.4554	-0.1713	2.4170	-0.9090	0.0000
2005	15-Nov	731	3	T	15	-376093.46	0.1805	-0.0679	2.5180	-0.9470	0.0142
2005	15-Nov	737	1	C	30	-409718.86	0.5514	-0.2259	6.9830	-2.8611	0.0000
2005	15-Nov	742	2	C	30	-409718.86	0.4650	-0.1905	5.2720	-2.1600	0.0122
2005	15-Nov	747	3	C	30	-409718.86	1.5450	-0.6330	0.7639	-0.3130	0.0015
2005	15-Nov	722	1	T	30	-406479.75	0.6994	-0.2843	5.7070	-2.3198	0.0071
2005	15-Nov	727	2	T	30	-406479.75	1.6810	-0.6833	4.6590	-1.8938	0.0115
2005	15-Nov	732	3	T	30	-406479.75	1.0240	-0.4162	4.8270	-1.9621	0.0000
2005	15-Nov	738	1	C	60	-410584.02	2.1420	-0.8795	5.0870	-2.0886	0.0012
2005	15-Nov	743	2	C	60	-410584.02	0.6507	-0.2672	2.6140	-1.0733	0.0189
2005	15-Nov	748	3	C	60	-410584.02	1.5740	-0.6463	1.7770	-0.7296	0.0000
2005	15-Nov	723	1	T	60	-408622.71	1.2350	-0.5046	5.0570	-2.0664	0.0000
2005	15-Nov	728	2	T	60	-408622.71	4.1470	-1.6946	8.8210	-3.6045	0.0000
2005	15-Nov	733	3	T	60	-408622.71	2.6520	-1.0837	3.5040	-1.4318	0.0140
2005	15-Nov	739	1	C	120	-275604.78	1.0490	-0.2891	3.7260	-1.0269	0.0000
2005	15-Nov	744	2	C	120	-275604.78			2.3260	-0.6411	0.0121
2005	15-Nov	749	3	C	120	-275604.78	0.7979	-0.2199	3.1950	-0.8806	0.0104
2005	15-Nov	724	1	T	120	-275021.43	0.2487	-0.0684	1.2950	-0.3562	0.0000
2005	15-Nov	729	2	T	120	-275021.43	1.8780	-0.5165	3.5640	-0.9802	0.0097
2005	15-Nov	734	3	T	120	-275021.43	0.2993	-0.0823	0.5896	-0.1622	0.0244
2005	15-Nov	740	1	C	200	-217780.92			0.2263	-0.0493	0.0177
2005	15-Nov	745	2	C	200	-217780.92	0.1344	-0.0293	0.9340	-0.2034	0.0000
2005	15-Nov	750	3	C	200	-217780.92			0.3682	-0.0802	0.0000

		#	rep	trt	depth	flux	Al3092	Al3092	Ca3179	Ca3179	Cu3247
year	date				cm	l/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2005	15-Nov	725	1	T	200	-217221.31	0.0538	-0.0117	0.2503	-0.0544	0.0041
2005	15-Nov	730	2	T	200	-217221.31	0.1105	-0.0240	0.5963	-0.1295	0.0006
2005	15-Nov	735	3	T	200	-217221.31	0.2649	-0.0575	0.4921	-0.1069	0.0117
2005	24-Nov	766	1	C	15	-121018.54			9.5330	-1.1537	0.0109
2005	24-Nov	771	2	C	15	-121018.54	0.5669	-0.0686	0.9539	-0.1154	0.0233
2005	24-Nov	776	3	C	15	-121018.54			0.2699	-0.0327	0.0312
2005	24-Nov	751	1	T	15	-120245.18	2.6340	-0.3167	4.1900	-0.5038	0.0002
2005	24-Nov	756	2	T	15	-120245.18	0.3520	-0.0423	1.9070	-0.2293	0.0063
2005	24-Nov	761	3	T	15	-120245.18	0.3403	-0.0409	2.3260	-0.2797	0.0266
2005	24-Nov	767	1	C	30	-130702.18	0.5999	-0.0784	6.4000	-0.8365	0.0240
2005	24-Nov	772	2	C	30	-130702.18			2.8760	-0.3759	0.0248
2005	24-Nov	777	3	C	30	-130702.18	1.5710	-0.2053	0.8449	-0.1104	0.0074
2005	24-Nov	752	1	T	30	-130641.83	1.3430	-0.1755	5.2910	-0.6912	0.0118
2005	24-Nov	757	2	T	30	-130641.83	1.9370	-0.2531	4.4790	-0.5851	0.0094
2005	24-Nov	762	3	T	30	-130641.83	1.7660	-0.2307	4.7390	-0.6191	0.0284
2005	24-Nov	768	1	C	60	-155426.26	2.1020	-0.3267	4.7890	-0.7443	0.0315
2005	24-Nov	773	2	C	60	-155426.26	0.5830	-0.0906	2.6390	-0.4102	0.0293
2005	24-Nov	778	3	C	60	-155426.26	1.2430	-0.1932	1.4060	-0.2185	0.0401
2005	24-Nov	753	1	T	60	-154883.25	1.3740	-0.2128	4.7330	-0.7331	0.0000
2005	24-Nov	758	2	T	60	-154883.25	4.4570	-0.6903	8.9870	-1.3919	0.0136
2005	24-Nov	763	3	T	60	-154883.25	2.9830	-0.4620	3.4890	-0.5404	0.0403
2005	24-Nov	769	1	C	120	-231176.20	0.8817	-0.2038	3.5880	-0.8295	0.0226
2005	24-Nov	774	2	C	120	-231176.20	0.2852	-0.0659	2.3770	-0.5495	0.0000
2005	24-Nov	779	3	C	120	-231176.20	0.8045	-0.1860	3.0820	-0.7125	0.0000
2005	24-Nov	754	1	T	120	-230343.94	0.3244	-0.0747	1.1930	-0.2748	0.0000
2005	24-Nov	759	2	T	120	-230343.94	1.8480	-0.4257	3.8300	-0.8822	0.0184
2005	24-Nov	764	3	T	120	-230343.94			0.5530	-0.1274	0.0195
2005	24-Nov	770	1	C	200	-330594.89			0.2460	-0.0813	0.0001
2005	24-Nov	775	2	C	200	-330594.89	0.0000	0.0000	0.6237	-0.2062	0.0348
2005	24-Nov	780	3	C	200	-330594.89	0.0000	0.0000	0.3745	-0.1238	0.0000
2005	24-Nov	755	1	T	200	-329854.52			0.2576	-0.0850	0.0178
2005	24-Nov	760	2	T	200	-329854.52			0.5376	-0.1773	0.0003
2005	24-Nov	765	3	T	200	-329854.52			0.4527	-0.1493	0.0000
2005	2-Dec		1	C	30	31992.50					
2005	2-Dec	802	2	C	30	31992.50	0.9115	0.0292	5.5828	0.1786	0.0350
2005	2-Dec		3	C	30	31992.50					
2005	2-Dec	782	1	T	30	31785.75	0.8284	0.0263	5.8472	0.1859	0.0253
2005	2-Dec		2	T	30	31785.75					
2005	2-Dec		3	T	30	31785.75					
2005	2-Dec	798	1	C	60	120.20	1.6060	0.0002	4.5060	0.0005	0.0104
2005	2-Dec	803	2	C	60	120.20	0.9668	0.0001	2.4900	0.0003	0.0344
2005	2-Dec	808	3	C	60	120.20	1.1590	0.0001	1.4640	0.0002	0.0142
2005	2-Dec	783	1	T	60	818.57	1.0460	0.0009	4.1800	0.0034	0.0172
2005	2-Dec	788	2	T	60	818.57	4.3772	0.0036	7.3532	0.0060	0.0147
2005	2-Dec	793	3	T	60	818.57	3.3758	0.0028	4.8421	0.0040	0.0172
2005	2-Dec	799	1	C	120	-41201.96	0.8675	-0.0357	3.5680	-0.1470	0.0371

		#	rep	trt	depth	flux	Al3092	Al3092	Ca3179	Ca3179	Cu3247
year	date				cm	l/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2005	2-Dec	804	2	C	120	-41201.96	0.5681	-0.0234	1.8840	-0.0776	0.0248
2005	2-Dec	809	3	C	120	-41201.96	0.9859	-0.0406	3.1280	-0.1289	0.0253
2005	2-Dec	784	1	T	120	-39667.64	0.1397	-0.0055	0.7247	-0.0287	0.0163
2005	2-Dec	789	2	T	120	-39667.64	1.6860	-0.0669	3.6320	-0.1441	0.0375
2005	2-Dec	794	3	T	120	-39667.64	0.0000	0.0000	0.3543	-0.0141	0.0113
2005	2-Dec	800	1	C	200	-153146.44	0.2247	-0.0344	0.0539	-0.0083	0.0309
2005	2-Dec	805	2	C	200	-153146.44			0.2485	-0.0381	0.0166
2005	2-Dec	810	3	C	200	-153146.44			0.1477	-0.0226	0.0264
2005	2-Dec	785	1	T	200	-149988.76	0.0000	0.0000	0.0330	-0.0049	0.0223
2005	2-Dec	790	2	T	200	-149988.76	0.0000	0.0000	0.2486	-0.0373	0.0092
2005	2-Dec	795	3	T	200	-149988.76	0.0000	0.0000	0.2510	-0.0376	0.0070
2005	9-Dec	829	1	C	120	7767.28	1.2120	0.0094	3.6270	0.0282	0.0227
2005	9-Dec	834	2	C	120	7767.28	0.3440	0.0027	1.7426	0.0135	0.0209
2005	9-Dec	839	3	C	120	7767.28	0.7852	0.0061	4.4710	0.0347	0.0172
2005	9-Dec	814	1	T	120	7835.84	0.1918	0.0015	1.0351	0.0081	0.0123
2005	9-Dec	819	2	T	120	7835.84	1.7058	0.0134	4.1324	0.0324	0.0377
2005	9-Dec	824	3	T	120	7835.84	0.1547	0.0012	0.5356	0.0042	0.0140
2005	9-Dec	830	1	C	200	-77611.73			0.0635	-0.0049	0.0036
2005	9-Dec	835	2	C	200	-77611.73	0.0464	-0.0036	0.7714	-0.0599	0.0160
2005	9-Dec	840	3	C	200	-77611.73	0.1475	-0.0114	0.1883	-0.0146	0.0070
2005	9-Dec	815	1	T	200	-75868.39	0.2103	-0.0160	0.0530	-0.0040	0.0291
2005	9-Dec	820	2	T	200	-75868.39	0.3440	-0.0261	0.3352	-0.0254	0.0017
2005	9-Dec	825	3	T	200	-75868.39			0.2754	-0.0209	0.0041
2005	16-Dec	859	1	C	120	19853.08	1.0440	0.0207	3.8640	0.0767	0.0241
2005	16-Dec		2	C	120	19853.08					
2005	16-Dec		3	C	120	19853.08					
2005	16-Dec	860	1	C	200	-50758.44	0.0000	0.0000	0.0991	-0.0050	0.0000
2005	16-Dec		2	C	200	-50758.44					
2005	16-Dec	870	3	C	200	-50758.44	0.0485	-0.0025	0.4697	-0.0238	0.0124
2005	16-Dec	845	1	T	200	-49670.22	0.0000	0.0000	0.1182	-0.0059	0.0208
2005	16-Dec	850	2	T	200	-49670.22	0.0395	-0.0020	0.4495	-0.0223	0.0129
2005	16-Dec	855	3	T	200	-49670.22			0.1929	-0.0096	0.0234
2005	27-Dec	889	1	C	120		0.8577	0.0000	2.6724	0.0000	0.0166
2005	27-Dec		2	C	120						
2005	27-Dec	899	3	C	120		0.9565	0.0000	6.4682	0.0000	0.0192
2005	27-Dec	890	1	C	200		0.1662	0.0000	0.2017	0.0000	0.0000
2005	27-Dec		2	C	200						
2005	27-Dec	900	3	C	200				0.3657	0.0000	0.0204
2005	27-Dec	875	1	T	200		0.2179	0.0000	0.0911	0.0000	0.0139
2005	27-Dec	880	2	T	200		0.0000	0.0000	0.3865	0.0000	0.0301

#	Cu3247	Fe2599	Fe2599	K_7698	K_7698	Mg2852	Mg2852	Mn2605	Mn2605
	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha
16	0.0000	0.0000	0.0000	1.9900	-2.1008	1.4110	-1.4895	0.0065	-0.0069
21	-0.0051	0.0001	-0.0001	15.5500	-16.4155	6.8030	-7.1816	0.1010	-0.1066
26	0.0000	0.0004	-0.0004	5.4210	-5.7227	1.6490	-1.7408	0.0285	-0.0301
1	0.0000	0.0014	-0.0015	12.5000	-13.1999	15.2100	-16.0616	0.0764	-0.0807
6	0.0000	0.0006	-0.0006	18.2000	-19.2191	15.7300	-16.6108	0.2893	-0.3055
11	0.0000	0.0011	-0.0012	0.5947	-0.6280	2.9450	-3.1099	0.0073	-0.0077
17	0.0000	0.0012	-0.0012	1.1100	-1.0769	6.6490	-6.4504	0.0199	-0.0193
22	-0.0060	0.0011	-0.0011	3.7210	-3.6099	11.5500	-11.2051	0.0584	-0.0567
27	0.0000	0.0061	-0.0059	1.5580	-1.5115	5.6360	-5.4677	0.0645	-0.0626
2	-0.0034	0.0010	-0.0010	0.8714	-0.8409	2.4340	-2.3489	0.0150	-0.0145
7	0.0000	0.0009	-0.0009	7.5480	-7.2841	4.6610	-4.4980	0.1747	-0.1686
12	0.0000	0.0004	-0.0004	3.4620	-3.3410	11.5600	-11.1558	0.1801	-0.1738
18	0.0000	0.0000	0.0000	0.7037	-0.5948	0.9316	-0.7874	0.0055	-0.0046
23	0.0000	0.0002	-0.0002	1.0510	-0.8884	5.0270	-4.2491	0.0330	-0.0279
28	0.0000	0.0013	-0.0011	0.7879	-0.6660	1.6930	-1.4310	0.0182	-0.0154
3	0.0000	0.0002	-0.0002	0.1405	-0.1168	0.5113	-0.4251	0.0057	-0.0047
8	-0.0004	0.0029	-0.0024	0.7251	-0.6028	3.6420	-3.0279	0.1132	-0.0941
13	0.0000	0.0029	-0.0024	1.4590	-1.2130	3.3040	-2.7469	0.0426	-0.0354
19	-0.0055	0.0012	-0.0008	0.1905	-0.1253	0.8310	-0.5465	0.0142	-0.0093
24	-0.0009	0.0000	0.0000	0.2448	-0.1610	0.7693	-0.5059	0.0082	-0.0054
29	-0.0046	0.0020	-0.0013	0.4048	-0.2662	1.8840	-1.2389	0.0132	-0.0087
4	-0.0008	0.0034	-0.0022	0.5846	-0.3731	0.1618	-0.1033	0.0048	-0.0031
9	-0.0054	0.0036	-0.0023	0.2350	-0.1500	1.6960	-1.0825	0.0400	-0.0255
14	0.0000	0.0012	-0.0008	0.1139	-0.0727	0.2079	-0.1327	0.0027	-0.0017
20	0.0000	0.0000	0.0000	0.0639	-0.0324	0.0571	-0.0290	0.0013	-0.0007
25	0.0000	0.0007	-0.0004	0.1045	-0.0530	0.1119	-0.0567	0.0023	-0.0012
30	0.0000	0.0000	0.0000	0.1699	-0.0862	0.1200	-0.0609	0.0040	-0.0020
5	0.0000	0.0005	-0.0002	0.0661	-0.0314	0.0235	-0.0112	0.0028	-0.0013
10	-0.0023	0.0038	-0.0018	0.1406	-0.0669	0.2034	-0.0967	0.0037	-0.0018
15	-0.0031	0.0000	0.0000	0.0957	-0.0455	0.2121	-0.1009	0.0065	-0.0031
46	0.0000	0.0004	-0.0001	1.2660	-0.2008	1.2980	-0.2059	0.0051	-0.0008
51	0.0000	0.0024	-0.0004	11.8400	-1.8779	3.3180	-0.5262	0.0562	-0.0089
56	0.0000	0.0082	-0.0013	5.2500	-0.8327	1.8740	-0.2972	0.0312	-0.0049
31	0.0000	0.0065	-0.0010	3.3460	-0.5385	7.5690	-1.2181	0.0295	-0.0047
36	0.0000	0.0009	-0.0001	17.5500	-2.8244	13.7700	-2.2161	0.2766	-0.0445
41	-0.0007	0.0148	-0.0024	0.6973	-0.1122	1.7670	-0.2844	0.0123	-0.0020
47	-0.0002	0.0001	0.0000	0.4654	-0.0655	3.2640	-0.4590	0.0119	-0.0017
52	0.0000	0.0023	-0.0003	4.7790	-0.6721	13.1400	-1.8479	0.0714	-0.0100
57	-0.0015	0.0374	-0.0053	0.8991	-0.1264	2.9980	-0.4216	0.0504	-0.0071
32	0.0000	0.0000	0.0000	0.9517	-0.1296	3.2730	-0.4459	0.0183	-0.0025
37	0.0000	0.0011	-0.0001	9.1050	-1.2404	4.8590	-0.6619	0.1434	-0.0195
42	-0.0004	0.1148	-0.0156	3.1230	-0.4254	11.8900	-1.6197	0.1862	-0.0254
48	0.0000	0.0045	-0.0006	0.6423	-0.0862	0.9677	-0.1298	0.0072	-0.0010
53	-0.0010	0.0012	-0.0002	1.0730	-0.1440	5.5760	-0.7482	0.0354	-0.0047
58									
33	0.0000	0.0009	-0.0001	0.9062	-0.1152	4.0980	-0.5209	0.0370	-0.0047

#	Cu3247	Fe2599	Fe2599	K_7698	K_7698	Mg2852	Mg2852	Mn2605	Mn2605
	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha
38	0.0000	0.0050	-0.0006	0.6603	-0.0839	4.3470	-0.5526	0.1498	-0.0190
43	-0.0008	0.0117	-0.0015	1.1200	-0.1424	3.1880	-0.4053	0.0406	-0.0052
49	-0.0004	0.0014	-0.0003	0.2103	-0.0387	0.9513	-0.1749	0.0160	-0.0029
54	-0.0014	0.0059	-0.0011	0.2691	-0.0495	0.9021	-0.1658	0.0097	-0.0018
59									
34	0.0000	0.0032	-0.0006	0.6041	-0.1044	0.1839	-0.0318	0.0046	-0.0008
39	-0.0026	0.0129	-0.0022	0.1889	-0.0326	1.5930	-0.2752	0.0338	-0.0058
44	-0.0030	0.0604	-0.0104	0.1511	-0.0261	0.2328	-0.0402	0.0043	-0.0007
50	0.0000	0.0000	0.0000	0.0596	-0.0119	0.0246	-0.0049	0.0013	-0.0003
55	-0.0015	0.0075	-0.0015	0.0853	-0.0171	0.1337	-0.0267	0.0038	-0.0008
60									
35	0.0000	0.0062	-0.0012	0.0787	-0.0149	0.0378	-0.0072	0.0020	-0.0004
40	-0.0025	0.0092	-0.0017	0.1247	-0.0236	0.2136	-0.0404	0.0035	-0.0007
45	-0.0014	0.0157	-0.0030	0.1535	-0.0291	0.2486	-0.0471	0.0069	-0.0013
76	-0.0029	0.0000	0.0000	1.3440	-0.3915	3.3460	-0.9747	0.0118	-0.0034
81	-0.0021	0.0003	-0.0001	14.4300	-4.2037	3.7530	-1.0933	0.0635	-0.0185
86	-0.0037	0.0000	0.0000	5.7290	-1.6690	2.0110	-0.5858	0.0338	-0.0098
61	0.0000	0.0000	0.0000	2.0600	-0.6093	9.0050	-2.6634	0.0426	-0.0126
66	0.0000	0.0008	-0.0002	16.7700	-4.9601	12.8100	-3.7889	0.2799	-0.0828
71	0.0000	0.0007	-0.0002	1.9680	-0.5821	3.9680	-1.1736	0.0129	-0.0038
77	-0.0017	0.0000	0.0000	1.0260	-0.3373	6.8300	-2.2455	0.0205	-0.0067
82	-0.0003	0.0000	0.0000	6.2790	-2.0643	12.4100	-4.0800	0.0725	-0.0238
87	0.0000	0.0002	-0.0001	1.6160	-0.5313	7.1490	-2.3504	0.0814	-0.0268
62	-0.0002	0.0000	0.0000	1.0900	-0.3384	3.6800	-1.1426	0.0198	-0.0061
67	-0.0008	0.0000	0.0000	9.6040	-2.9821	5.7420	-1.7829	0.2091	-0.0649
72	-0.0009	0.0029	-0.0009	5.1080	-1.5860	20.5400	-6.3777	0.3602	-0.1118
78	-0.0058	0.0000	0.0000	0.6067	-0.2156	1.2050	-0.4282	0.0116	-0.0041
83	-0.0034	0.0000	0.0000	1.0640	-0.3781	5.5000	-1.9544	0.0339	-0.0120
88	-0.0027	0.0002	-0.0001	0.9840	-0.3497	1.6870	-0.5995	0.0201	-0.0071
63	0.0000	0.0017	-0.0006	0.8462	-0.2961	3.9030	-1.3655	0.0342	-0.0120
68	-0.0009	0.0007	-0.0002	0.7426	-0.2598	4.3180	-1.5107	0.1426	-0.0499
73	-0.0034	0.0000	0.0000	1.6330	-0.5713	4.6180	-1.6157	0.0577	-0.0202
79	-0.0048	0.0000	0.0000	0.1939	-0.0663	0.8977	-0.3070	0.0146	-0.0050
84	-0.0016	0.0000	0.0000	0.2223	-0.0760	0.8419	-0.2879	0.0089	-0.0030
89	-0.0053	0.0000	0.0000	0.6467	-0.2212	0.8358	-0.2858	0.0066	-0.0023
64	0.0000	0.0010	-0.0003	0.6077	-0.2047	0.1831	-0.0617	0.0049	-0.0017
69	-0.0017	0.0054	-0.0018	0.2437	-0.0821	1.6560	-0.5577	0.0420	-0.0141
74	-0.0051	0.0000	0.0000	0.0976	-0.0329	0.2300	-0.0775	0.0025	-0.0008
80	-0.0003	0.0000	0.0000	0.0355	-0.0118	0.0608	-0.0202	0.0012	-0.0004
85	-0.0010	0.0000	0.0000	0.0728	-0.0241	0.1211	-0.0401	0.0021	-0.0007
90	-0.0036	0.0000	0.0000	0.1353	-0.0449	0.1093	-0.0362	0.0037	-0.0012
65	0.0000	0.0011	-0.0004	0.0799	-0.0258	0.0247	-0.0080	0.0017	-0.0005
70	-0.0007	0.0029	-0.0009	0.1358	-0.0439	0.1856	-0.0600	0.0039	-0.0013
75	-0.0037	0.0000	0.0000	0.0739	-0.0239	0.2336	-0.0755	0.0065	-0.0021
106	0.0000	0.0000	0.0000	1.3290	-0.8980	4.3640	-2.9487	0.0192	-0.0130
111	-0.0097	0.0000	0.0000	8.7800	-5.9325	2.1440	-1.4487	0.0377	-0.0255

#	Cu3247	Fe2599	Fe2599	K_7698	K_7698	Mg2852	Mg2852	Mn2605	Mn2605
	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha
116	-0.0039	0.0000	0.0000	8.0680	-5.4514	3.1360	-2.1190	0.0470	-0.0318
91	-0.0036	0.0000	0.0000	1.0330	-0.7030	6.6130	-4.5002	0.0309	-0.0210
96	-0.0043	0.0008	-0.0005	11.6900	-7.9551	10.0600	-6.8459	0.2346	-0.1596
101	0.0000	0.0000	0.0000	1.4280	-0.9718	2.7220	-1.8523	0.0142	-0.0097
107	0.0000	0.0000	0.0000	1.0160	-0.6279	5.1930	-3.2094	0.0160	-0.0099
112	0.0000	0.0012	-0.0007	5.2000	-3.2137	8.1870	-5.0598	0.0507	-0.0313
117	-0.0013	0.0024	-0.0015	1.7230	-1.0649	5.6870	-3.5147	0.0765	-0.0473
92	-0.0041	0.0006	-0.0004	1.5670	-0.9745	4.9850	-3.1001	0.0259	-0.0161
97	-0.0062	0.0000	0.0000	9.2300	-5.7400	6.3470	-3.9471	0.2788	-0.1734
102	-0.0009	0.0051	-0.0032	4.4460	-2.7649	16.8600	-10.4849	0.3197	-0.1988
108	-0.0022	0.0001	-0.0001	0.5939	-0.3244	1.5540	-0.8490	0.0161	-0.0088
113	0.0000	0.0000	0.0000	0.9989	-0.5457	5.2700	-2.8790	0.0312	-0.0170
118	-0.0072	0.0000	0.0000	1.0900	-0.5955	1.6230	-0.8866	0.0207	-0.0113
93	0.0000	0.0001	-0.0001	0.8066	-0.4436	3.5020	-1.9259	0.0296	-0.0163
98	-0.0041	0.0022	-0.0012	0.7171	-0.3944	4.3690	-2.4028	0.1454	-0.0800
103	-0.0002	0.0002	-0.0001	1.6880	-0.9283	5.6740	-3.1204	0.0694	-0.0382
109	0.0000	0.0000	0.0000	0.1753	-0.0775	0.8585	-0.3793	0.0141	-0.0062
114	-0.0020	0.0000	0.0000	0.2085	-0.0921	0.9031	-0.3990	0.0092	-0.0041
119	-0.0047	0.0006	-0.0003	0.6089	-0.2691	1.6920	-0.7476	0.0155	-0.0068
94	-0.0025	0.0000	0.0000	0.5697	-0.2498	0.3396	-0.1489	0.0074	-0.0032
99	-0.0103	0.0036	-0.0016	0.1799	-0.0789	1.4390	-0.6309	0.0396	-0.0174
104	-0.0019	0.0000	0.0000	0.0718	-0.0315	0.2466	-0.1081	0.0024	-0.0011
110	-0.0006	0.0000	0.0000	0.0083	-0.0031	0.0510	-0.0192	0.0012	-0.0005
115	-0.0014	0.0000	0.0000	0.0688	-0.0259	0.1464	-0.0552	0.0027	-0.0010
120	-0.0008	0.0000	0.0000	0.1362	-0.0514	0.1018	-0.0384	0.0039	-0.0015
100	-0.0023	0.0012	-0.0004	0.0857	-0.0318	0.2160	-0.0802	0.0035	-0.0013
105	-0.0009	0.0000	0.0000	0.0498	-0.0185	0.2064	-0.0767	0.0069	-0.0026
136	0.0000	0.0002	0.0000	2.1100	-0.2067	5.7820	-0.5665	0.0306	-0.0030
141	-0.0014	0.0000	0.0000	3.7010	-0.3626	0.5621	-0.0551	0.0111	-0.0011
146	0.0000	0.0000	0.0000	8.3250	-0.8156	3.5970	-0.3524	0.0501	-0.0049
121	-0.0001	0.0000	0.0000	0.3663	-0.0402	3.2760	-0.3595	0.0144	-0.0016
126	0.0000	0.0013	-0.0001	4.6880	-0.5144	3.3140	-0.3636	0.0909	-0.0100
131	-0.0010	0.0000	0.0000	1.8500	-0.2030	2.6210	-0.2876	0.0174	-0.0019
137	-0.0022	0.0000	0.0000	0.8554	-0.1309	5.6430	-0.8637	0.0174	-0.0027
142	-0.0012	0.0004	-0.0001	3.7430	-0.5729	3.1590	-0.4835	0.0213	-0.0033
147	0.0000	0.0002	0.0000	1.8980	-0.2905	6.2270	-0.9531	0.0832	-0.0127
122	-0.0002	0.0000	0.0000	2.1320	-0.3205	7.2610	-1.0915	0.0338	-0.0051
127	0.0000	0.0000	0.0000	8.6800	-1.3048	7.3810	-1.1095	0.3734	-0.0561
132	0.0000	0.0000	0.0000	4.1400	-0.6223	11.9100	-1.7903	0.2451	-0.0368
138	-0.0013	0.0000	0.0000	0.6642	-0.1572	1.6050	-0.3800	0.0183	-0.0043
143	0.0000	0.0000	0.0000	0.9925	-0.2350	4.7120	-1.1156	0.0278	-0.0066
148	-0.0014	0.0000	0.0000	1.0790	-0.2555	1.6240	-0.3845	0.0207	-0.0049
123	-0.0009	0.0000	0.0000	0.8050	-0.1840	3.5760	-0.8176	0.0295	-0.0067
128	0.0000	0.0000	0.0000	0.7712	-0.1763	4.8550	-1.1100	0.1587	-0.0363
133	0.0000	0.0000	0.0000	1.8300	-0.4184	6.8510	-1.5663	0.0837	-0.0191

#	Cu3247	Fe2599	Fe2599	K_7698	K_7698	Mg2852	Mg2852	Mn2605	Mn2605
	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha
139	-0.0054	0.0000	0.0000	0.2135	-0.0775	0.7690	-0.2792	0.0126	-0.0046
144	-0.0027	0.0000	0.0000	0.2450	-0.0890	0.9189	-0.3336	0.0094	-0.0034
149	-0.0023	0.0000	0.0000	0.5677	-0.2061	1.4720	-0.5345	0.0170	-0.0062
124	-0.0047	0.0000	0.0000	0.4570	-0.1595	0.2238	-0.0781	0.0052	-0.0018
129	-0.0020	0.0004	-0.0001	0.1721	-0.0601	1.3160	-0.4592	0.0390	-0.0136
134	0.0000	0.0034	-0.0012	0.1802	-0.0629	0.2583	-0.0901	0.0023	-0.0008
140	-0.0060	0.0000	0.0000	0.0637	-0.0310	0.0436	-0.0212	0.0010	-0.0005
145	-0.0034	0.0000	0.0000	0.0875	-0.0426	0.1282	-0.0625	0.0027	-0.0013
150	-0.0024	0.0000	0.0000	0.1265	-0.0616	0.1172	-0.0571	0.0035	-0.0017
130	0.0000	0.0000	0.0000	0.0734	-0.0349	0.1804	-0.0859	0.0033	-0.0016
135	-0.0035	0.0000	0.0000	0.2608	-0.1241	0.2000	-0.0952	0.0059	-0.0028
166	-0.0054	0.0000	0.0000	0.3115	-0.1615	1.6130	-0.8363	0.0044	-0.0023
171	-0.0063	0.0029	-0.0015	2.4090	-1.2490	0.3601	-0.1867	0.0067	-0.0035
176	0.0000	0.0013	-0.0007	9.4000	-4.8735	2.9920	-1.5512	0.0428	-0.0222
151	-0.0050	0.0034	-0.0019	2.2940	-1.2564	10.0100	-5.4824	0.0753	-0.0412
156	0.0000	0.1156	-0.0633	3.3140	-1.8151	2.9530	-1.6173	0.0641	-0.0351
161	0.0000	0.0000	0.0000	1.2880	-0.7054	5.7990	-3.1761	0.0158	-0.0087
167	-0.0009	0.0000	0.0000	2.1680	-1.1079	8.2030	-4.1918	0.0358	-0.0183
172	-0.0118	0.0015	-0.0008	1.4780	-0.7553	1.0810	-0.5524	0.0058	-0.0030
177	-0.0060	0.0010	-0.0005	1.7340	-0.8861	5.2710	-2.6935	0.0758	-0.0387
152	-0.0075	0.0004	-0.0002	0.5736	-0.3105	5.7380	-3.1064	0.0157	-0.0085
157	-0.0062	0.0056	-0.0030	6.9840	-3.7810	9.1690	-4.9639	0.4634	-0.2509
162	0.0000	0.0002	-0.0001	3.6760	-1.9901	15.2400	-8.2506	0.2962	-0.1604
168	-0.0024	0.0008	-0.0004	0.7861	-0.3879	4.9720	-2.4534	0.0349	-0.0172
173	-0.0047	0.0000	0.0000	0.8556	-0.4222	3.7060	-1.8287	0.0223	-0.0110
178	-0.0030	0.0000	0.0000	1.1650	-0.5749	1.9430	-0.9588	0.0238	-0.0117
153	0.0000	0.0000	0.0000	0.5750	-0.2998	2.1430	-1.1173	0.0228	-0.0119
158	-0.0090	0.0001	-0.0001	0.7799	-0.4066	6.0780	-3.1688	0.1803	-0.0940
163	0.0000	0.0004	-0.0002	1.7510	-0.9129	9.4670	-4.9357	0.1065	-0.0555
169	-0.0056	0.0000	0.0000	0.4195	-0.1931	0.3600	-0.1657	0.0075	-0.0035
174	0.0000	0.0000	0.0000	0.3740	-0.1722	1.3150	-0.6054	0.0136	-0.0063
179	-0.0113	0.0000	0.0000	0.3576	-0.1646	1.9860	-0.9143	0.0256	-0.0118
154	-0.0030	0.0000	0.0000	0.1573	-0.0737	0.8263	-0.3872	0.0135	-0.0063
159	-0.0115	0.0013	-0.0006	0.1541	-0.0722	1.4120	-0.6616	0.0426	-0.0200
164	-0.0094	0.0063	-0.0030	0.0574	-0.0269	0.2232	-0.1046	0.0025	-0.0012
175	-0.0007	0.0007	-0.0003	0.0650	-0.0286	0.0908	-0.0400	0.0027	-0.0012
180	-0.0014	0.0000	0.0000	0.1019	-0.0449	0.0851	-0.0375	0.0038	-0.0017
155	-0.0051	0.0000	0.0000	0.0029	-0.0013	0.0123	-0.0055	0.0010	-0.0004
160	-0.0037	0.0000	0.0000	0.0705	-0.0316	0.1654	-0.0740	0.0034	-0.0015
165	-0.0030	0.0000	0.0000	0.2229	-0.0998	0.1541	-0.0690	0.0056	-0.0025
196	-0.0019	0.0025	-0.0018	1.9420	-1.3845	4.8980	-3.4919	0.0649	-0.0463
201	-0.0102	0.0000	0.0000	1.5500	-1.1050	0.2314	-0.1650	0.0043	-0.0031
206	-0.0016	0.0000	0.0000	1.7230	-1.2284	0.4635	-0.3304	0.0083	-0.0059
181	0.0000	0.0007	-0.0005	0.1750	-0.1298	2.5160	-1.8657	0.0075	-0.0056

#	Cu3247	Fe2599	Fe2599	K_7698	K_7698	Mg2852	Mg2852	Mn2605	Mn2605
	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha
186	0.0000	0.0007	-0.0005	1.9110	-1.4171	1.5070	-1.1175	0.0374	-0.0277
191	0.0000	0.0002	-0.0001	0.6348	-0.4707	0.7229	-0.5361	0.0045	-0.0033
197	-0.0012	0.0000	0.0000	0.3963	-0.2730	3.2570	-2.2440	0.0092	-0.0063
202	0.0000	0.0000	0.0000	0.9329	-0.6428	0.3207	-0.2210	0.0019	-0.0013
207									
182	0.0000	0.0002	-0.0001	1.8570	-1.3286	4.6430	-3.3219	0.0233	-0.0167
187	0.0000	0.0000	0.0000	4.1500	-2.9692	7.9880	-5.7151	0.5064	-0.3623
192	0.0000	0.0006	-0.0004	3.0370	-2.1729	12.9700	-9.2796	0.2877	-0.2058
198	-0.0031	0.0000	0.0000	0.7275	-0.4742	2.4740	-1.6126	0.0243	-0.0158
203	-0.0044	0.0000	0.0000	0.8764	-0.5712	2.7210	-1.7736	0.0200	-0.0130
208	0.0000	0.0000	0.0000	1.2780	-0.8330	1.9240	-1.2541	0.0253	-0.0165
183	0.0000	0.0005	-0.0003	0.7964	-0.5331	4.8310	-3.2340	0.0341	-0.0228
188	0.0000	0.0010	-0.0007	0.8027	-0.5373	5.4730	-3.6638	0.1802	-0.1206
193	0.0000	0.0000	0.0000	1.9090	-1.2779	10.3200	-6.9085	0.1368	-0.0916
199	0.0000	0.0609	-0.0375	0.2353	-0.1447	0.7889	-0.4852	0.0168	-0.0103
204	-0.0046	0.0000	0.0000	0.2150	-0.1322	0.6777	-0.4168	0.0073	-0.0045
209	0.0000	0.0000	0.0000	0.3811	-0.2344	1.5780	-0.9705	0.0246	-0.0151
184	0.0000	0.0003	-0.0002	0.3946	-0.2464	0.4123	-0.2574	0.0079	-0.0049
189	-0.0043	0.0001	-0.0001	0.1569	-0.0980	1.3000	-0.8117	0.0444	-0.0277
194	-0.0031	0.0000	0.0000	0.1153	-0.0720	0.3029	-0.1891	0.0072	-0.0045
200	0.0000	0.0000	0.0000	0.0292	-0.0180	0.0264	-0.0162	0.0012	-0.0007
205	-0.0022	0.0000	0.0000	0.0879	-0.0541	0.1059	-0.0651	0.0029	-0.0018
210	-0.0009	0.0000	0.0000	0.1298	-0.0798	0.0979	-0.0602	0.0040	-0.0025
190	0.0000	0.0000	0.0000	0.0741	-0.0461	0.1570	-0.0976	0.0037	-0.0023
195	-0.0036	0.0000	0.0000	0.1299	-0.0808	0.1566	-0.0974	0.0058	-0.0036
226	0.0000	0.0017	-0.0020	0.6981	-0.8405	1.6950	-2.0407	0.0212	-0.0255
231	-0.0040	0.0000	0.0000	1.0920	-1.3147	0.2164	-0.2605	0.0031	-0.0037
236	-0.0161	0.0024	-0.0029	7.3880	-8.8950	0.8394	-1.0106	0.0283	-0.0341
211	-0.0009	0.0000	0.0000	0.0674	-0.0833	3.9220	-4.8492	0.0107	-0.0132
216	-0.0032	0.0000	0.0000	1.1480	-1.4194	0.6606	-0.8168	0.0149	-0.0184
221	0.0000	0.0000	0.0000	0.3736	-0.4619	0.3302	-0.4083	0.0015	-0.0019
227	0.0000	0.0000	0.0000	0.3869	-0.4339	2.8080	-3.1491	0.0089	-0.0100
232	-0.0019	0.0000	0.0000	0.7602	-0.8525	0.1828	-0.2050	0.0011	-0.0012
237	0.0000	0.0011	-0.0012	1.6170	-1.8134	3.3080	-3.7098	0.0470	-0.0527
212	0.0000	0.0000	0.0000	1.5320	-1.7653	3.3080	-3.8117	0.0180	-0.0207
217	0.0000	0.0000	0.0000	1.9590	-2.2573	7.9900	-9.2066	0.5197	-0.5988
222	0.0000	0.0000	0.0000	0.8994	-1.0363	3.7730	-4.3475	0.0886	-0.1021
228	0.0000	0.0000	0.0000	0.8137	-0.7942	3.1440	-3.0688	0.0317	-0.0309
233	-0.0003	0.0000	0.0000	0.7510	-0.7330	1.7780	-1.7355	0.0141	-0.0138
238	-0.0026	0.0007	-0.0007	1.2590	-1.2289	2.1230	-2.0722	0.0262	-0.0256
213	0.0000	0.0003	-0.0003	0.8353	-0.8348	3.7380	-3.7356	0.0293	-0.0293
218	0.0000	0.0000	0.0000	0.8899	-0.8893	5.4070	-5.4036	0.1866	-0.1865
223	-0.0038	0.0009	-0.0009	2.2100	-2.2086	10.6800	-10.6732	0.1528	-0.1527
229	0.0000	0.0000	0.0000	0.2333	-0.1786	0.7186	-0.5500	0.0126	-0.0096
234	-0.0054	0.0000	0.0000	0.5872	-0.4494	1.1360	-0.8694	0.0129	-0.0099

#	Cu3247	Fe2599	Fe2599	K_7698	K_7698	Mg2852	Mg2852	Mn2605	Mn2605
	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha
239	-0.0044	0.0000	0.0000	0.3612	-0.2764	1.8040	-1.3807	0.0338	-0.0259
214	0.0000	0.0000	0.0000	0.3395	-0.2627	0.3149	-0.2436	0.0065	-0.0050
219	-0.0189	0.0000	0.0000	0.1699	-0.1314	1.3550	-1.0483	0.0463	-0.0358
224	0.0000	0.0000	0.0000	0.1058	-0.0819	0.2668	-0.2064	0.0057	-0.0044
230	-0.0021	0.0000	0.0000	0.0255	-0.0156	0.0330	-0.0202	0.0010	-0.0006
235	-0.0003	0.0000	0.0000	0.0623	-0.0382	0.1059	-0.0649	0.0028	-0.0017
240	-0.0044	0.0000	0.0000	0.0836	-0.0512	0.0795	-0.0487	0.0039	-0.0024
220	-0.0030	0.0000	0.0000	0.1074	-0.0696	0.1467	-0.0951	0.0040	-0.0026
225	0.0000	0.0000	0.0000	0.1210	-0.0785	0.1823	-0.1182	0.0058	-0.0038
256	0.0000	0.0000	0.0000	0.7426	-0.4667	0.8318	-0.5228	0.0177	-0.0111
261	-0.0017	0.0000	0.0000	0.9986	-0.6276	0.6479	-0.4072	0.0133	-0.0084
266	-0.0050	0.0014	-0.0009	6.3340	-3.9811	0.3716	-0.2336	0.0161	-0.0101
241	0.0000	0.0000	0.0000	0.0665	-0.0417	1.7940	-1.1238	0.0048	-0.0030
246	0.0000	0.0000	0.0000	1.0950	-0.6859	0.2196	-0.1376	0.0029	-0.0018
251	-0.0041	0.0000	0.0000	0.3847	-0.2410	0.2734	-0.1713	0.0014	-0.0009
257	0.0000	0.0010	-0.0006	0.4060	-0.2384	3.0850	-1.8115	0.0098	-0.0058
262	-0.0001	0.0000	0.0000	1.9630	-1.1527	6.3920	-3.7534	0.3769	-0.2213
267	0.0000	0.0004	-0.0002	1.4520	-0.8526	2.7700	-1.6266	0.0387	-0.0227
242	0.0000	0.0000	0.0000	0.9829	-0.5698	2.1800	-1.2639	0.0109	-0.0063
247	-0.0039	0.0000	0.0000	0.6754	-0.3916	0.1601	-0.0928	0.0009	-0.0005
252	-0.0050	0.0000	0.0000	0.5387	-0.3123	1.6310	-0.9456	0.0405	-0.0235
258	-0.0062	0.0000	0.0000	0.9555	-0.5168	4.3730	-2.3651	0.0481	-0.0260
263	-0.0006	0.0000	0.0000	0.8419	-0.4553	6.0180	-3.2547	0.2003	-0.1083
268	-0.0017	0.0000	0.0000	1.1610	-0.6279	2.4390	-1.3191	0.0267	-0.0144
243	-0.0038	0.0001	-0.0001	0.8335	-0.4419	7.3090	-3.8749	0.0436	-0.0231
248	-0.0076	0.0000	0.0000	0.5903	-0.3130	1.0480	-0.5556	0.0086	-0.0046
253	-0.0052	0.0000	0.0000	2.2880	-1.2130	9.6120	-5.0959	0.1538	-0.0815
259	-0.0052	0.0000	0.0000	0.1756	-0.0973	0.8192	-0.4540	0.0122	-0.0068
264	-0.0070	0.0027	-0.0015	0.1552	-0.0860	1.2740	-0.7061	0.0441	-0.0244
269	-0.0016	0.0000	0.0000	0.3400	-0.1884	0.9963	-0.5522	0.0167	-0.0093
244	0.0000	0.0000	0.0000	0.3175	-0.1736	0.2630	-0.1438	0.0058	-0.0032
249	-0.0054	0.0000	0.0000	0.2603	-0.1424	0.7277	-0.3980	0.0074	-0.0040
254	-0.0038	0.0000	0.0000	0.0603	-0.0330	0.3238	-0.1771	0.0012	-0.0007
260	-0.0039	0.0000	0.0000	0.0124	-0.0078	0.0684	-0.0428	0.0009	-0.0006
265	-0.0125	0.0000	0.0000	0.0871	-0.0545	0.1291	-0.0808	0.0037	-0.0023
270	-0.0039	0.0000	0.0000	0.1118	-0.0700	0.1816	-0.1137	0.0041	-0.0026
245	-0.0024	0.0000	0.0000	0.0350	-0.0217	0.0371	-0.0230	0.0017	-0.0011
250	-0.0101	0.0000	0.0000	0.0749	-0.0464	0.1084	-0.0672	0.0021	-0.0013
255	-0.0075	0.0000	0.0000	0.0772	-0.0479	0.2043	-0.1267	0.0049	-0.0030
286	0.0000	0.0000	0.0000	0.8308	-0.3574	0.3937	-0.1694	0.0082	-0.0035
291	-0.0005	0.0000	0.0000	1.0030	-0.4315	0.2501	-0.1076	0.0026	-0.0011
296	-0.0015	0.0000	0.0000	2.9170	-1.2548	0.1467	-0.0631	0.0047	-0.0020
271	-0.0013	0.0000	0.0000	0.0596	-0.0257	1.7660	-0.7612	0.0043	-0.0019
276	-0.0003	0.0000	0.0000	0.9967	-0.4296	0.6464	-0.2786	0.0133	-0.0057
281	-0.0007	0.0000	0.0000	0.3382	-0.1458	0.2550	-0.1099	0.0011	-0.0005

#	Cu3247	Fe2599	Fe2599	K_7698	K_7698	Mg2852	Mg2852	Mn2605	Mn2605
	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha
287	-0.0042	0.0000	0.0000	0.2894	-0.1128	1.8990	-0.7402	0.0058	-0.0023
292	-0.0052	0.0000	0.0000	0.6664	-0.2597	0.1729	-0.0674	0.0008	-0.0003
297	-0.0027	0.0000	0.0000	1.2850	-0.5009	2.0900	-0.8146	0.0305	-0.0119
272	-0.0027	0.0000	0.0000	0.5345	-0.2086	0.6684	-0.2608	0.0033	-0.0013
277	0.0000	0.0000	0.0000	2.0270	-0.7909	5.9980	-2.3403	0.3190	-0.1245
282	0.0000	0.0000	0.0000	0.4187	-0.1634	0.6162	-0.2404	0.0159	-0.0062
288	-0.0021	0.0000	0.0000	1.1940	-0.3784	4.9580	-1.5714	0.0564	-0.0179
293	-0.0012	0.0000	0.0000	0.4029	-0.1277	0.8147	-0.2582	0.0064	-0.0020
298	-0.0068	0.0086	-0.0027	1.1860	-0.3759	2.7150	-0.8605	0.0280	-0.0089
273	-0.0008	0.0000	0.0000	0.8778	-0.2778	7.0030	-2.2161	0.0439	-0.0139
278	0.0000	0.0000	0.0000	0.8019	-0.2538	7.0700	-2.2373	0.2184	-0.0691
283	-0.0007	0.0000	0.0000	2.6570	-0.8408	8.9190	-2.8224	0.1552	-0.0491
289	-0.0012	0.0000	0.0000	0.1656	-0.0442	0.7587	-0.2027	0.0121	-0.0032
294	-0.0023	0.0000	0.0000	0.2808	-0.0750	0.7473	-0.1997	0.0078	-0.0021
299	-0.0013	0.0014	-0.0004	0.3080	-0.0823	0.9338	-0.2495	0.0154	-0.0041
274	-0.0017	0.0000	0.0000	0.2943	-0.0785	0.2508	-0.0669	0.0058	-0.0015
279	-0.0077	0.0000	0.0000	0.1412	-0.0377	1.1900	-0.3175	0.0447	-0.0119
284	-0.0021	0.0000	0.0000	0.0572	-0.0153	0.2709	-0.0723	0.0011	-0.0003
290	-0.0004	0.0000	0.0000	0.0162	-0.0053	0.0718	-0.0236	0.0009	-0.0003
295	-0.0011	0.0000	0.0000	0.0755	-0.0248	0.1347	-0.0442	0.0024	-0.0008
300	-0.0057	0.0000	0.0000	0.1130	-0.0371	0.1440	-0.0473	0.0038	-0.0012
275	-0.0032	0.0000	0.0000	0.0246	-0.0081	0.0397	-0.0130	0.0012	-0.0004
280	-0.0006	0.0000	0.0000	0.0703	-0.0231	0.1320	-0.0433	0.0032	-0.0010
285	-0.0011	0.0000	0.0000	0.0782	-0.0257	0.2199	-0.0721	0.0051	-0.0017
316	-0.0102	0.0000	0.0000	0.6559	-0.3512	0.2144	-0.1148	0.0038	-0.0020
321	-0.0019	0.0000	0.0000	1.1180	-0.5986	0.3524	-0.1887	0.0039	-0.0021
326	-0.0078	0.0000	0.0000	1.2320	-0.6597	0.1117	-0.0598	0.0019	-0.0010
301	-0.0068	0.0004	-0.0002	0.1244	-0.0667	2.4350	-1.3058	0.0057	-0.0031
306	-0.0055	0.0000	0.0000	1.1590	-0.6215	0.9085	-0.4872	0.0175	-0.0094
311	-0.0057	0.0000	0.0000	0.2998	-0.1608	0.4228	-0.2267	0.0013	-0.0007
317	-0.0112	0.0000	0.0000	0.2528	-0.1389	1.3250	-0.7278	0.0038	-0.0021
322	-0.0113	0.0000	0.0000	0.6433	-0.3534	0.2327	-0.1278	0.0010	-0.0005
327	0.0000	0.0001	-0.0001	0.9886	-0.5430	1.3850	-0.7608	0.0201	-0.0110
302	-0.0032	0.0000	0.0000	0.4064	-0.2211	0.4731	-0.2574	0.0021	-0.0011
307	-0.0008	0.0000	0.0000	1.8610	-1.0124	4.7430	-2.5802	0.2233	-0.1215
312	0.0000	0.0000	0.0000	0.2887	-0.1571	0.5174	-0.2815	0.0138	-0.0075
318	-0.0060	0.0000	0.0000	1.5380	-0.8300	5.5900	-3.0168	0.0628	-0.0339
323	-0.0081	0.0000	0.0000	0.6379	-0.3443	2.6660	-1.4388	0.0179	-0.0097
328	-0.0024	0.0002	-0.0001	1.2670	-0.6838	3.1390	-1.6940	0.0293	-0.0158
303	-0.0028	0.0000	0.0000	0.8634	-0.4622	8.0550	-4.3123	0.0458	-0.0245
308	0.0000	0.0000	0.0000	0.8633	-0.4622	8.6530	-4.6324	0.2390	-0.1279
313	-0.0071	0.0000	0.0000	3.0060	-1.6093	8.3970	-4.4954	0.1502	-0.0804
319	-0.0074	0.0000	0.0000	0.1631	-0.0618	0.8389	-0.3179	0.0139	-0.0053
324	-0.0036	0.0000	0.0000	0.2660	-0.1008	0.9025	-0.3420	0.0090	-0.0034
329	-0.0045	0.0005	-0.0002	0.2578	-0.0977	0.9199	-0.3486	0.0159	-0.0060
304	-0.0046	0.0000	0.0000	0.2855	-0.1081	0.3075	-0.1164	0.0064	-0.0024

#	Cu3247	Fe2599	Fe2599	K_7698	K_7698	Mg2852	Mg2852	Mn2605	Mn2605
	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha
309	-0.0115	0.0000	0.0000	0.1522	-0.0576	1.2970	-0.4909	0.0487	-0.0184
314	-0.0052	0.0000	0.0000	0.0574	-0.0217	0.2929	-0.1109	0.0014	-0.0005
320	-0.0021	0.0000	0.0000	0.0123	-0.0036	0.0735	-0.0218	0.0014	-0.0004
325	-0.0013	0.0000	0.0000	0.0579	-0.0172	0.1311	-0.0389	0.0028	-0.0008
330	-0.0028	0.0000	0.0000	0.1117	-0.0331	0.1536	-0.0456	0.0043	-0.0013
305	-0.0036	0.0000	0.0000	0.0397	-0.0117	0.0765	-0.0226	0.0016	-0.0005
310	-0.0023	0.0000	0.0000	0.0676	-0.0200	0.1849	-0.0547	0.0033	-0.0010
315	-0.0004	0.0000	0.0000	0.0712	-0.0211	0.1957	-0.0579	0.0052	-0.0015
346	0.0000	0.0000	0.0000	0.5085	-0.1566	0.1704	-0.0525	0.0026	-0.0008
351	0.0000	0.0000	0.0000	1.1219	-0.3455	0.2965	-0.0913	0.0039	-0.0012
356	0.0000	0.0000	0.0000	1.1120	-0.3425	0.0724	-0.0223	0.0017	-0.0005
331	0.0000	0.0027	-0.0008	0.1274	-0.0394	1.3770	-0.4255	0.0036	-0.0011
336	0.0000	0.0000	0.0000	1.0429	-0.3223	0.7993	-0.2470	0.0164	-0.0051
341	0.0000	0.0000	0.0000	0.5031	-0.1555	0.6160	-0.1904	0.0017	-0.0005
347	0.0000	0.0000	0.0000	0.3698	-0.1062	0.7068	-0.2030	0.0027	-0.0008
352	0.0000	0.0000	0.0000	0.6851	-0.1968	0.1632	-0.0469	0.0009	-0.0003
357	0.0000	0.0000	0.0000	0.6924	-0.1989	0.7753	-0.2227	0.0113	-0.0032
332	0.0000	0.0000	0.0000	0.3147	-0.0888	0.2901	-0.0818	0.0016	-0.0005
337	0.0000	0.0000	0.0000	2.0980	-0.5919	3.0320	-0.8553	0.1474	-0.0416
342	0.0000	0.0023	-0.0006	0.6295	-0.1776	0.4384	-0.1237	0.0116	-0.0033
348	0.0000	0.0075	-0.0019	1.6930	-0.4320	5.5570	-1.4181	0.0626	-0.0160
353	0.0000	0.0000	0.0000	0.5827	-0.1487	1.6050	-0.4096	0.0111	-0.0028
358	0.0000	0.0086	-0.0022	1.2680	-0.3236	3.3270	-0.8490	0.0308	-0.0079
333	0.0000	0.0000	0.0000	0.8449	-0.2114	7.6360	-1.9104	0.0439	-0.0110
338	0.0000	0.0019	-0.0005	0.9269	-0.2319	9.9630	-2.4926	0.2521	-0.0631
343	0.0000	0.0000	0.0000	3.3119	-0.8286	7.3630	-1.8421	0.1387	-0.0347
349	0.0000	0.1386	-0.0346	0.2447	-0.0611	0.9063	-0.2261	0.0301	-0.0075
354	0.0000	0.0023	-0.0006	0.3621	-0.0903	0.9813	-0.2448	0.0109	-0.0027
359	0.0000	0.0000	0.0000	0.2630	-0.0656	0.8685	-0.2167	0.0163	-0.0041
334	0.0000	0.0000	0.0000	0.2446	-0.0592	0.2516	-0.0609	0.0064	-0.0015
339	0.0000	0.0000	0.0000	0.1667	-0.0404	1.2790	-0.3096	0.0524	-0.0127
344	0.0000	0.0000	0.0000	0.0965	-0.0234	0.2467	-0.0597	0.0017	-0.0004
350	0.0000	0.0044	-0.0015	0.0724	-0.0242	0.0217	-0.0072	0.0028	-0.0009
355	0.0000	0.0000	0.0000	0.1013	-0.0338	0.0921	-0.0307	0.0027	-0.0009
360	0.0000	0.0000	0.0000	0.1574	-0.0525	0.1243	-0.0415	0.0041	-0.0014
335	0.0000	0.0000	0.0000	0.0119	-0.0039	0.0111	-0.0036	0.0013	-0.0004
340	0.0000	0.0000	0.0000	0.1137	-0.0370	0.1198	-0.0390	0.0032	-0.0010
345	0.0000	0.0000	0.0000	0.1100	-0.0358	0.1511	-0.0492	0.0051	-0.0017
376	-0.0028	0.0000	0.0000	0.5674	-0.5134	0.1797	-0.1626	0.0023	-0.0021
381	-0.0069	0.0000	0.0000	0.9308	-0.8422	0.3326	-0.3009	0.0041	-0.0037
361	0.0000	0.0037	-0.0033	0.2772	-0.2469	2.9700	-2.6451	0.0077	-0.0069
366	-0.0110	0.0008	-0.0007	1.9540	-1.7403	1.5930	-1.4188	0.0334	-0.0297
377	-0.0042	0.0000	0.0000	0.5585	-0.4657	0.6507	-0.5426	0.0029	-0.0024
382	-0.0049	0.0000	0.0000	0.6899	-0.5753	0.2177	-0.1815	0.0012	-0.0010

#	Cu3247	Fe2599	Fe2599	K_7698	K_7698	Mg2852	Mg2852	Mn2605	Mn2605
	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha
362	-0.0069	0.0000	0.0000	0.2540	-0.2110	0.2229	-0.1852	0.0011	-0.0009
367	0.0000	0.0023	-0.0019	2.1010	-1.7455	1.5150	-1.2587	0.0911	-0.0757
378	-0.0037	0.0011	-0.0008	1.8390	-1.3222	4.9430	-3.5540	0.0566	-0.0407
383	-0.0065	0.0000	0.0000	0.5241	-0.3768	1.1580	-0.8326	0.0087	-0.0063
363	0.0000	0.0000	0.0000	0.6351	-0.4549	5.2430	-3.7550	0.0287	-0.0206
368	-0.0019	0.0014	-0.0010	0.8898	-0.6373	9.8450	-7.0509	0.2367	-0.1695
379	0.0000	0.0020	-0.0011	0.1907	-0.1037	0.8155	-0.4434	0.0170	-0.0092
384	-0.0024	0.0000	0.0000	0.3161	-0.1719	0.7609	-0.4137	0.0100	-0.0054
364	-0.0049	0.0000	0.0000	0.2256	-0.1232	0.2929	-0.1600	0.0067	-0.0037
369	-0.0132	0.0000	0.0000	0.0753	-0.0411	1.1490	-0.6275	0.0493	-0.0269
380	-0.0060	0.0000	0.0000	0.0104	-0.0042	0.0293	-0.0117	0.0008	-0.0003
385	-0.0025	0.0000	0.0000	0.0000	0.0000	0.1086	-0.0434	0.0028	-0.0011
365	0.0000	0.1125	-0.0451	0.0239	-0.0096	0.0260	-0.0104	0.0025	-0.0010
370	-0.0023	0.0000	0.0000	0.0161	-0.0065	0.1218	-0.0489	0.0031	-0.0012
406	0.0000	0.0000	0.0000	0.9131	-0.0480	0.1598	-0.0084	0.0040	-0.0002
411	-0.0001	0.0000	0.0000	1.0380	-0.0545	0.2131	-0.0112	0.0026	-0.0001
416	-0.0002	0.0000	0.0000	1.3460	-0.0707	0.0753	-0.0040	0.0015	-0.0001
391	-0.0001	0.0000	0.0000	0.4869	-0.0242	2.6050	-0.1293	0.0064	-0.0003
396	0.0000	0.0000	0.0000	3.2990	-0.1638	1.6590	-0.0824	0.0341	-0.0017
401	-0.0006	0.0000	0.0000	0.8465	-0.0420	0.6686	-0.0332	0.0010	0.0000
407	-0.0027	0.0000	0.0000	0.6845	-0.0773	0.5777	-0.0653	0.0018	-0.0002
412	-0.0013	0.0000	0.0000	1.0030	-0.1133	0.2111	-0.0238	0.0010	-0.0001
417	-0.0016	0.0000	0.0000	0.5003	-0.0565	0.2588	-0.0292	0.0050	-0.0006
392	-0.0001	0.0000	0.0000	0.5495	-0.0423	0.2181	-0.0168	0.0007	-0.0001
397	-0.0001	0.0000	0.0000	2.3900	-0.1839	0.8955	-0.0689	0.0451	-0.0035
402	-0.0003	0.0000	0.0000	1.1880	-0.0914	0.3718	-0.0286	0.0106	-0.0008
408	-0.0045	0.0000	0.0000	2.9900	-0.7101	5.6920	-1.3519	0.0696	-0.0165
413	-0.0026	0.0000	0.0000	0.5084	-0.1207	0.6596	-0.1567	0.0042	-0.0010
418	-0.0001	0.0000	0.0000	1.3070	-0.3104	2.4300	-0.5771	0.0219	-0.0052
393	-0.0002	0.0000	0.0000	0.9050	-0.1843	3.9510	-0.8047	0.0229	-0.0047
398	-0.0006	0.0000	0.0000	1.0060	-0.2049	9.4610	-1.9269	0.2198	-0.0448
403	-0.0020	0.0000	0.0000	3.4690	-0.7065	5.1510	-1.0491	0.1065	-0.0217
409	-0.0053	0.0000	0.0000	0.3645	-0.1556	0.8272	-0.3530	0.0155	-0.0066
414	-0.0027	0.0000	0.0000	0.4108	-0.1753	0.7176	-0.3063	0.0081	-0.0035
419	-0.0030	0.0000	0.0000	0.2273	-0.0970	1.3390	-0.5715	0.0272	-0.0116
394	-0.0050	0.0000	0.0000	0.3707	-0.1535	0.2416	-0.1000	0.0050	-0.0021
399	-0.0125	0.0000	0.0000	0.3595	-0.1488	1.1920	-0.4935	0.0517	-0.0214
404	-0.0043	0.0000	0.0000	0.2348	-0.0972	0.2251	-0.0932	0.0026	-0.0011
410	-0.0015	0.0000	0.0000	0.1544	-0.0874	0.0210	-0.0119	0.0003	-0.0002

#	Cu3247	Fe2599	Fe2599	K_7698	K_7698	Mg2852	Mg2852	Mn2605	Mn2605
	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha
415	-0.0065	0.0000	0.0000	0.1831	-0.1037	0.0776	-0.0439	0.0017	-0.0010
420	0.0000	0.0000	0.0000	0.1593	-0.0902	0.1078	-0.0610	0.0034	-0.0019
395	-0.0012	0.0000	0.0000	0.2542	-0.1412	0.0234	-0.0130	0.0009	-0.0005
400	0.0000	0.0000	0.0000	0.2506	-0.1392	0.1077	-0.0598	0.0025	-0.0014
405	-0.0042	0.0000	0.0000	0.2079	-0.1155	0.1382	-0.0767	0.0045	-0.0025
436	-0.0007	0.0000	0.0000	0.8710	-0.0438	0.1997	-0.0100	0.0037	-0.0002
441	0.0000	0.0000	0.0000	0.7219	-0.0363	0.2150	-0.0108	0.0032	-0.0002
446	0.0000	0.0000	0.0000	1.6980	-0.0854	0.0960	-0.0048	0.0024	-0.0001
421	0.0000	0.0210	-0.0011	1.1980	-0.0603	3.5420	-0.1783	0.0196	-0.0010
426	-0.0009	0.0031	-0.0002	3.5080	-0.1766	2.4110	-0.1214	0.0461	-0.0023
431	-0.0010	0.0000	0.0000	0.6436	-0.0324	0.6020	-0.0303	0.0014	-0.0001
437	-0.0006	0.0000	0.0000	0.2822	-0.0167	0.3740	-0.0222	0.0013	-0.0001
442	-0.0005	0.0000	0.0000	0.8982	-0.0532	0.2469	-0.0146	0.0018	-0.0001
447	-0.0009	0.0000	0.0000	0.9212	-0.0546	0.7063	-0.0418	0.0092	-0.0005
422	0.0000	0.0078	-0.0005	0.2325	-0.0136	0.2183	-0.0127	0.0027	-0.0002
427	-0.0003	0.0008	0.0000	2.1920	-0.1278	0.8253	-0.0481	0.0391	-0.0023
432	-0.0005	0.0000	0.0000	0.9492	-0.0553	0.5346	-0.0312	0.0150	-0.0009
438	0.0000	0.0006	0.0000	3.2120	-0.2314	5.9030	-0.4252	0.0719	-0.0052
443	-0.0007	0.0000	0.0000	0.2888	-0.0208	0.9217	-0.0664	0.0066	-0.0005
448	0.0000	0.0000	0.0000	1.3290	-0.0957	2.2080	-0.1591	0.0204	-0.0015
423	0.0000	0.0000	0.0000	0.7148	-0.0512	3.7900	-0.2714	0.0228	-0.0016
428	0.0000	0.0000	0.0000	0.7466	-0.0535	9.0900	-0.6508	0.2042	-0.0146
433	-0.0006	0.0006	0.0000	3.1970	-0.2289	4.1020	-0.2937	0.0872	-0.0062
439	-0.0019	0.0000	0.0000	0.1126	-0.0123	0.8733	-0.0957	0.0165	-0.0018
444	-0.0002	0.2477	-0.0272	0.1740	-0.0191	0.8080	-0.0886	0.0106	-0.0012
449	-0.0002	0.0000	0.0000	0.4275	-0.0469	1.9090	-0.2093	0.0394	-0.0043
424	0.0000	0.0000	0.0000	0.1732	-0.0186	0.2410	-0.0259	0.0056	-0.0006
429	-0.0019	0.0000	0.0000	0.0534	-0.0057	1.1910	-0.1278	0.0501	-0.0054
434	-0.0013	0.0000	0.0000	0.0000	0.0000	0.2239	-0.0240	0.0010	-0.0001
440	-0.0014	0.0000	0.0000	0.0000	0.0000	0.0210	-0.0042	0.0009	-0.0002
445	-0.0007	0.0000	0.0000	0.3191	-0.0637	0.1209	-0.0241	0.0035	-0.0007
450	0.0000	0.0000	0.0000	0.3592	-0.0717	0.1245	-0.0249	0.0037	-0.0007
425	0.0000	0.0000	0.0000	0.0000	0.0000	0.0217	-0.0042	0.0012	-0.0002
430	-0.0012	0.0000	0.0000	0.0174	-0.0034	0.1282	-0.0250	0.0033	-0.0006
435	-0.0007	0.0000	0.0000	0.0032	-0.0006	0.1505	-0.0294	0.0048	-0.0009
466	-0.0003	0.0007	-0.0001	1.4150	-0.1432	0.3601	-0.0364	0.0076	-0.0008
471	0.0000	0.0000	0.0000	0.7800	-0.0789	0.2466	-0.0250	0.0034	-0.0003
476	-0.0004	0.0000	0.0000	1.6100	-0.1629	0.1273	-0.0129	0.0030	-0.0003
451	-0.0008	0.0100	-0.0011	1.0860	-0.1145	3.4790	-0.3667	0.0216	-0.0023
456	0.0000	0.0005	-0.0001	4.2470	-0.4476	2.8740	-0.3029	0.0512	-0.0054
461	0.0000	0.0021	-0.0002	0.8386	-0.0884	0.8596	-0.0906	0.0024	-0.0003
467	-0.0009	0.0005	0.0000	0.4403	-0.0381	0.4575	-0.0395	0.0016	-0.0001
472	-0.0001	0.0006	-0.0001	1.0980	-0.0949	0.3574	-0.0309	0.0025	-0.0002
477	-0.0011	0.0000	0.0000	0.5937	-0.0513	0.6335	-0.0548	0.0069	-0.0006
452	-0.0008	0.0023	-0.0002	0.3070	-0.0262	0.2281	-0.0194	0.0019	-0.0002
457	0.0000	0.0010	-0.0001	2.2580	-0.1925	0.7929	-0.0676	0.0360	-0.0031

#	Cu3247	Fe2599	Fe2599	K_7698	K_7698	Mg2852	Mg2852	Mn2605	Mn2605
	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha
462	0.0000	0.0001	0.0000	1.5110	-0.1288	0.8370	-0.0713	0.0284	-0.0024
468	-0.0001	0.0000	0.0000	3.4150	-0.2403	5.6020	-0.3942	0.0708	-0.0050
473	-0.0012	0.0008	-0.0001	0.3919	-0.0276	1.0020	-0.0705	0.0076	-0.0005
478	-0.0001	0.0004	0.0000	1.0540	-0.0742	1.9560	-0.1376	0.0184	-0.0013
453	0.0000	0.0026	-0.0002	2.3430	-0.1644	3.9620	-0.2780	0.0273	-0.0019
458	0.0000	0.0031	-0.0002	0.7898	-0.0554	9.4530	-0.6632	0.2142	-0.0150
463	0.0000	0.0024	-0.0002	3.4330	-0.2409	3.7100	-0.2603	0.0845	-0.0059
469	-0.0003	0.0013	-0.0001	0.1513	-0.0109	0.8583	-0.0621	0.0171	-0.0012
474	0.0000	0.0007	-0.0001	0.2576	-0.0186	0.8749	-0.0633	0.0099	-0.0007
479	0.0000	0.0020	-0.0001	0.1347	-0.0097	1.9250	-0.1392	0.0418	-0.0030
454	0.0000	0.0011	-0.0001	0.2174	-0.0154	0.2354	-0.0166	0.0058	-0.0004
459	-0.0013	0.0017	-0.0001	0.1066	-0.0075	1.2300	-0.0869	0.0542	-0.0038
464	0.0000	0.0000	0.0000	0.0495	-0.0035	0.2264	-0.0160	0.0020	-0.0001
470	-0.0010	0.0000	0.0000	0.0000	0.0000	0.0282	-0.0032	0.0010	-0.0001
475	0.0000	0.0000	0.0000	0.0307	-0.0035	0.0888	-0.0100	0.0022	-0.0002
480	-0.0013	0.0003	0.0000	0.0992	-0.0112	0.1244	-0.0140	0.0035	-0.0004
455	0.0000	0.0000	0.0000	0.0053	-0.0006	0.0303	-0.0033	0.0011	-0.0001
460	0.0000	0.0000	0.0000	0.0394	-0.0043	0.1272	-0.0140	0.0038	-0.0004
465	0.0000	0.0008	-0.0001	0.0292	-0.0032	0.1615	-0.0178	0.0051	-0.0006
496	0.0000	0.0000	0.0000	21.8300	1.0242	3.6610	0.1718	0.0414	0.0019
501	0.0000	0.0000	0.0000	1.0570	0.0496	0.4367	0.0205	0.0051	0.0002
506	0.0000	0.2243	0.0105	55.7500	2.6157	9.2840	0.4356	0.0683	0.0032
481	0.0000	0.0007	0.0000	1.0750	0.0499	3.2120	0.1490	0.0177	0.0008
486	0.0002	0.0011	0.0001	4.9080	0.2277	3.5140	0.1630	0.0562	0.0026
491	0.0000	0.0000	0.0000	1.0400	0.0482	2.2620	0.1049	0.0036	0.0002
497	0.0000	0.0000	0.0000	0.5205	0.0003	0.4308	0.0003	0.0013	0.0000
502	0.0000	0.0000	0.0000	1.6120	0.0010	0.5405	0.0003	0.0039	0.0000
507	0.0000	0.0520	0.0000	1.8866	0.0012	0.8159	0.0005	0.0144	0.0000
482	0.0000	0.0000	0.0000	0.5449	0.0001	0.3272	0.0001	0.0017	0.0000
487	0.0000	0.0000	0.0000	2.8200	0.0006	0.9221	0.0002	0.0389	0.0000
492	0.0000	0.0000	0.0000	1.9130	0.0004	1.0870	0.0002	0.0354	0.0000
498	-0.0001	0.0016	-0.0001	3.6850	-0.1600	5.6840	-0.2467	0.0693	-0.0030
503	-0.0003	0.0000	0.0000	0.5007	-0.0217	0.9029	-0.0392	0.0064	-0.0003
508	0.0000	0.0000	0.0000	1.1500	-0.0499	2.2280	-0.0967	0.0192	-0.0008
483	0.0000	0.0000	0.0000	1.6910	-0.0735	3.9320	-0.1709	0.0281	-0.0012
488	-0.0003	0.0153	-0.0007	0.9938	-0.0432	9.6920	-0.4213	0.2133	-0.0093
493	0.0000	0.0000	0.0000	4.1180	-0.1790	3.8510	-0.1674	0.0893	-0.0039
499	-0.0020	0.0000	0.0000	0.2709	-0.0224	0.9453	-0.0781	0.0186	-0.0015
504	-0.0008	0.0000	0.0000	0.3893	-0.0322	0.8508	-0.0703	0.0092	-0.0008
509	-0.0005	0.0000	0.0000	0.2857	-0.0236	2.1540	-0.1779	0.0479	-0.0040
484	-0.0001	0.0000	0.0000	0.2883	-0.0238	0.2381	-0.0196	0.0060	-0.0005
489	-0.0002	0.0003	0.0000	0.1883	-0.0155	1.3010	-0.1073	0.0552	-0.0046
494	0.0000	0.0000	0.0000	0.1673	-0.0138	0.2068	-0.0170	0.0011	-0.0001
500	0.0000	0.0000	0.0000	0.1278	-0.0136	0.0151	-0.0016	0.0007	-0.0001
505	0.0000	0.0000	0.0000	0.1570	-0.0167	0.0730	-0.0078	0.0028	-0.0003
510	0.0000	0.0000	0.0000	0.2360	-0.0251	0.0961	-0.0102	0.0033	-0.0004

#	Cu3247	Fe2599	Fe2599	K_7698	K_7698	Mg2852	Mg2852	Mn2605	Mn2605
	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha
485	0.0000	0.0000	0.0000	0.0990	-0.0105	0.0106	-0.0011	0.0011	-0.0001
490	0.0000	0.0000	0.0000	0.1391	-0.0148	0.1236	-0.0131	0.0038	-0.0004
495	0.0000	0.0000	0.0000	0.1767	-0.0188	0.1372	-0.0146	0.0044	-0.0005
526	-0.0075	0.0025	-0.0014	28.7400	-15.5331	5.0300	-2.7186	0.0529	-0.0286
531	-0.0079	0.0003	-0.0002	2.1230	-1.1474	1.0090	-0.5453	0.0145	-0.0078
536	-0.0069	0.0066	-0.0036	137.8000	-74.4765	11.1700	-6.0370	0.0956	-0.0517
511	-0.0128	0.0016	-0.0009	4.9990	-2.6914	8.7650	-4.7189	0.0555	-0.0299
516	0.0000	0.0009	-0.0005	18.3000	-9.8524	5.9130	-3.1835	0.0978	-0.0527
521	-0.0034	0.0009	-0.0005	7.5550	-4.0675	10.4900	-5.6476	0.0273	-0.0147
527	-0.0039	0.0000	0.0000	1.2850	-0.6344	1.1630	-0.5741	0.0036	-0.0018
532	-0.0106	0.0003	-0.0001	4.8730	-2.4056	2.8470	-1.4055	0.0181	-0.0089
537	-0.0081	0.0072	-0.0036	12.9300	-6.3831	2.6080	-1.2875	0.0311	-0.0154
512	-0.0026	0.0000	0.0000	1.1640	-0.5761	1.4840	-0.7345	0.0090	-0.0045
517	0.0000	0.0061	-0.0030	4.0290	-1.9940	1.1860	-0.5870	0.0341	-0.0169
522	-0.0058	0.0001	0.0000	3.9280	-1.9440	2.2820	-1.1294	0.0646	-0.0320
528	-0.0030	0.0032	-0.0013	3.5070	-1.4637	5.0350	-2.1015	0.0628	-0.0262
533	-0.0072	0.0000	0.0000	2.8510	-1.1899	1.6980	-0.7087	0.0109	-0.0045
538	-0.0007	0.0013	-0.0005	1.0510	-0.4387	2.1870	-0.9128	0.0185	-0.0077
513	-0.0017	0.0000	0.0000	2.0800	-0.8713	3.0490	-1.2772	0.0219	-0.0092
518	-0.0001	0.0013	-0.0005	0.8758	-0.3669	7.8040	-3.2689	0.2127	-0.0891
523	-0.0096	0.0017	-0.0007	3.6970	-1.5486	2.8400	-1.1896	0.0685	-0.0287
529	-0.0040	0.0000	0.0000	0.5141	-0.1504	1.2080	-0.3535	0.0207	-0.0061
534	-0.0020	0.0000	0.0000	1.7840	-0.5220	1.1480	-0.3359	0.0172	-0.0050
539	-0.0066	0.0167	-0.0049	0.2661	-0.0779	1.2920	-0.3780	0.0282	-0.0083
514	-0.0022	0.0000	0.0000	0.1055	-0.0308	0.1842	-0.0538	0.0034	-0.0010
519	-0.0078	0.0010	-0.0003	0.0874	-0.0255	1.2500	-0.3651	0.0538	-0.0157
524	-0.0002	0.0000	0.0000	0.0209	-0.0061	0.2195	-0.0641	0.0008	-0.0002
530	-0.0004	0.0000	0.0000	0.0000	0.0000	0.0210	-0.0033	0.0009	-0.0001
535	-0.0022	0.0393	-0.0061	0.2252	-0.0349	0.1459	-0.0226	0.0046	-0.0007
540	-0.0011	0.0000	0.0000	0.1518	-0.0235	0.1179	-0.0183	0.0038	-0.0006
515	0.0000	0.0000	0.0000	0.0000	0.0000	0.0422	-0.0065	0.0017	-0.0003
520	-0.0012	0.0000	0.0000	0.0349	-0.0053	0.1385	-0.0212	0.0036	-0.0006
525	-0.0030	0.0000	0.0000	0.0358	-0.0055	0.1455	-0.0223	0.0043	-0.0007
556	0.0000	0.0000	0.0000	0.1265	-0.0454	0.0408	-0.0147	0.0025	-0.0009
561	-0.0045	0.0000	0.0000	2.7630	-0.9923	1.3400	-0.4813	0.0214	-0.0077
566	-0.0021	0.0102	-0.0037	12.1100	-4.3493	3.0550	-1.0972	0.0285	-0.0102
541	0.0000	0.0153	-0.0055	5.8480	-2.0948	7.0520	-2.5261	0.0439	-0.0157
546	0.0000	0.0086	-0.0031	25.8400	-9.2562	6.6500	-2.3821	0.1148	-0.0411
551	-0.0022	0.0521	-0.0187	26.0600	-9.3350	15.2000	-5.4448	0.0642	-0.0230
557	-0.0004	0.0000	0.0000	2.9290	-0.9218	0.9193	-0.2893	0.0089	-0.0028
562	-0.0010	0.0041	-0.0013	15.2000	-4.7836	6.5020	-2.0462	0.0557	-0.0175
567	0.0000	0.0037	-0.0012	1.6750	-0.5271	1.5070	-0.4743	0.0051	-0.0016
542	-0.0002	0.0018	-0.0006	1.0150	-0.3168	1.2140	-0.3790	0.0068	-0.0021
547	0.0000	0.0049	-0.0015	5.2740	-1.6463	1.5650	-0.4885	0.0356	-0.0111
552	0.0000	0.0089	-0.0028	3.5450	-1.1066	2.6570	-0.8294	0.0649	-0.0203
558	0.0000	0.0000	0.0000	1.0540	-0.2639	2.1430	-0.5365	0.0183	-0.0046

#	Cu3247	Fe2599	Fe2599	K_7698	K_7698	Mg2852	Mg2852	Mn2605	Mn2605
	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha
563	0.0000	0.0040	-0.0010	1.2830	-0.3212	0.9104	-0.2279	0.0075	-0.0019
568	0.0000	0.0140	-0.0035	3.8490	-0.9636	5.1700	-1.2943	0.0649	-0.0162
543	-0.0001	0.0056	-0.0014	1.8940	-0.4719	2.8470	-0.7094	0.0227	-0.0057
548	-0.0007	0.0042	-0.0010	1.1660	-0.2905	7.9370	-1.9776	0.2335	-0.0582
553	0.0000	0.0258	-0.0064	3.9210	-0.9770	2.7520	-0.6857	0.0683	-0.0170
559	0.0000	0.0000	0.0000	0.2080	-0.0366	0.8464	-0.1489	0.0160	-0.0028
564	0.0000	0.0088	-0.0015	1.9070	-0.3355	1.4480	-0.2547	0.0213	-0.0037
569	-0.0016	0.0451	-0.0079	1.4870	-0.2616	2.4450	-0.4301	0.0412	-0.0072
544	-0.0013	0.0135	-0.0023	0.3551	-0.0613	0.3951	-0.0682	0.0079	-0.0014
549	-0.0001	0.0140	-0.0024	0.1739	-0.0300	1.3740	-0.2371	0.0586	-0.0101
554	-0.0002	0.0243	-0.0042	0.3091	-0.0533	0.3113	-0.0537	0.0038	-0.0007
560	-0.0006	0.0000	0.0000	0.2800	-0.0469	0.2399	-0.0402	0.0070	-0.0012
565	0.0000	0.0000	0.0000	0.6042	-0.1013	0.4525	-0.0759	0.0093	-0.0016
570	0.0000	0.0463	-0.0078	0.3103	-0.0520	0.1084	-0.0182	0.0050	-0.0008
545	-0.0015	0.0065	-0.0011	0.0635	-0.0104	0.0390	-0.0064	0.0022	-0.0004
550	0.0000	0.0026	-0.0004	0.0895	-0.0146	0.1544	-0.0253	0.0045	-0.0007
555	0.0000	0.0192	-0.0031	0.2555	-0.0418	0.2752	-0.0450	0.0092	-0.0015
586	-0.0011	0.0003	-0.0005	9.1050	-16.0780	2.7810	-4.9108	0.0195	-0.0344
591	-0.0136	0.0000	0.0000	2.7150	-4.7942	0.9682	-1.7097	0.0161	-0.0284
596	0.0000	0.0013	-0.0023	36.5100	-64.4707	2.0400	-3.6023	0.0224	-0.0396
571	0.0000	0.0066	-0.0117	8.6690	-15.3108	5.4070	-9.5496	0.0372	-0.0657
576	0.0000	0.0017	-0.0030	19.2300	-33.9633	4.6450	-8.2038	0.0920	-0.1625
581	-0.0058	0.0003	-0.0005	11.0600	-19.5337	3.9540	-6.9834	0.0229	-0.0404
587	0.0000	0.0000	0.0000	0.6623	-1.1769	0.7338	-1.3040	0.0024	-0.0043
592	0.0000	0.0008	-0.0014	16.6400	-29.5694	5.7460	-10.2107	0.0509	-0.0904
597	-0.0128	0.0008	-0.0014	2.6810	-4.7641	1.0290	-1.8285	0.0087	-0.0155
572	0.0000	0.0008	-0.0014	4.5070	-7.9901	4.9500	-8.7755	0.0418	-0.0741
577	-0.0179	0.0009	-0.0016	6.4960	-11.5163	1.7090	-3.0298	0.0325	-0.0576
582	-0.0018	0.0013	-0.0023	3.8280	-6.7864	2.8670	-5.0827	0.0696	-0.1234
588	0.0000	0.0003	-0.0005	2.4820	-4.3999	3.1070	-5.5078	0.0345	-0.0612
593	-0.0113	0.0002	-0.0004	1.0510	-1.8631	0.9850	-1.7461	0.0077	-0.0136
598	-0.0099	0.0018	-0.0032	1.0590	-1.8773	1.4160	-2.5102	0.0133	-0.0236
573	0.0000	0.0012	-0.0021	1.3880	-2.4559	1.8610	-3.2928	0.0141	-0.0249
578	-0.0050	0.0020	-0.0035	0.9594	-1.6976	5.5800	-9.8732	0.1648	-0.2916
583	-0.0069	0.0007	-0.0012	3.3830	-5.9859	2.0640	-3.6520	0.0478	-0.0846
589	-0.0062	0.0001	-0.0002	0.9235	-1.5918	0.9411	-1.6222	0.0167	-0.0288
594	-0.0102	0.0000	0.0000	1.3490	-2.3252	0.4299	-0.7410	0.0076	-0.0131
599	-0.0098	0.0007	-0.0012	0.1575	-0.2715	0.6825	-1.1764	0.0130	-0.0224
574	-0.0108	0.0004	-0.0007	0.5598	-0.9618	1.1520	-1.9793	0.0103	-0.0177
579	-0.0270	0.0001	-0.0002	0.0948	-0.1629	1.1340	-1.9484	0.0492	-0.0845
584	-0.0014	0.0003	-0.0005	0.5256	-0.9031	0.8316	-1.4288	0.0244	-0.0419
590	-0.0247	0.0000	0.0000	0.0048	-0.0076	0.0353	-0.0556	0.0009	-0.0014
595	-0.0247	0.0005	-0.0008	0.1482	-0.2334	0.1080	-0.1701	0.0022	-0.0035
600	-0.0096	0.0013	-0.0020	0.1415	-0.2228	0.1307	-0.2058	0.0046	-0.0072
575	-0.0034	0.0000	0.0000	0.0299	-0.0467	0.0416	-0.0650	0.0020	-0.0031
580	-0.0114	0.0037	-0.0058	0.0577	-0.0901	0.1376	-0.2148	0.0042	-0.0066

#	Cu3247	Fe2599	Fe2599	K_7698	K_7698	Mg2852	Mg2852	Mn2605	Mn2605
	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha
585	0.0000	0.0000	0.0000	0.0427	-0.0667	0.1538	-0.2401	0.0044	-0.0069
616	0.0000	0.0122	-0.0011	1.7780	-0.1569	2.7760	-0.2450	0.0079	-0.0007
621	0.0000	0.0080	-0.0007	3.0560	-0.2697	0.7151	-0.0631	0.0124	-0.0011
626	-0.0007	0.0166	-0.0015	21.0000	-1.8531	0.9103	-0.0803	0.0106	-0.0009
601	0.0000	0.0123	-0.0011	4.6180	-0.4166	3.0140	-0.2719	0.0182	-0.0016
606	-0.0004	0.0242	-0.0022	12.7700	-1.1519	1.6890	-0.1524	0.0380	-0.0034
611	-0.0003	0.0000	0.0000	5.7580	-0.5194	1.8700	-0.1687	0.0151	-0.0014
617	-0.0012	0.0095	-0.0011	1.6690	-0.1978	1.9400	-0.2300	0.0064	-0.0008
622	-0.0001	0.0090	-0.0011	14.8300	-1.7580	3.9560	-0.4690	0.0374	-0.0044
627	0.0000	0.0107	-0.0013	1.9140	-0.2269	0.6773	-0.0803	0.0062	-0.0007
602	0.0000	0.0085	-0.0010	1.5330	-0.1837	1.8540	-0.2222	0.0114	-0.0014
607	0.0000	0.0178	-0.0021	7.2350	-0.8671	1.8550	-0.2223	0.0343	-0.0041
612	0.0000	0.0007	-0.0001	2.6130	-0.3132	2.1950	-0.2631	0.0471	-0.0056
618	-0.0004	0.0026	-0.0005	3.3760	-0.6130	3.0410	-0.5522	0.0391	-0.0071
623	-0.0001	0.0099	-0.0018	1.4090	-0.2558	1.2090	-0.2195	0.0104	-0.0019
628	-0.0007	0.0036	-0.0007	1.2790	-0.2322	1.1860	-0.2154	0.0128	-0.0023
603	-0.0047	0.0146	-0.0027	1.9710	-0.3587	2.2310	-0.4060	0.0184	-0.0033
608	-0.0030	0.0195	-0.0035	1.0570	-0.1924	4.9490	-0.9007	0.1500	-0.0273
613	-0.0019	0.0000	0.0000	3.1480	-0.5729	1.7220	-0.3134	0.0404	-0.0074
619	0.0000	0.0045	-0.0013	1.1850	-0.3530	1.6110	-0.4799	0.0254	-0.0076
624	-0.0012	0.0167	-0.0050	0.8209	-0.2445	0.9610	-0.2863	0.0132	-0.0039
629	-0.0029	0.0072	-0.0021	0.3858	-0.1149	1.3840	-0.4123	0.0301	-0.0090
604	0.0000	0.0099	-0.0030	0.4964	-0.1482	0.6553	-0.1956	0.0091	-0.0027
609	-0.0026	0.0127	-0.0038	0.2130	-0.0636	1.4310	-0.4271	0.0629	-0.0188
614	-0.0004	0.0010	-0.0003	0.1191	-0.0355	0.2012	-0.0601	0.0016	-0.0005
620	0.0000	0.0061	-0.0027	0.0791	-0.0353	0.0379	-0.0169	0.0013	-0.0006
625	0.0000	0.0133	-0.0059	0.1664	-0.0743	0.1292	-0.0577	0.0033	-0.0015
630	0.0000	0.0163	-0.0073	0.2803	-0.1252	0.1377	-0.0615	0.0050	-0.0022
605	-0.0070	0.0109	-0.0049	0.1035	-0.0463	0.0527	-0.0236	0.0025	-0.0011
610	0.0000	0.0000	0.0000	0.0814	-0.0364	0.1327	-0.0594	0.0037	-0.0017
615	-0.0016	0.0000	0.0000	0.0679	-0.0304	0.1394	-0.0624	0.0044	-0.0020
646	-0.0069	0.0000	0.0000	3.7240	-2.8946	2.8620	-2.2246	0.0104	-0.0081
651	0.0000	0.0035	-0.0027	3.3810	-2.6280	0.6395	-0.4971	0.0114	-0.0089
656	-0.0039	0.0000	0.0000	14.1800	-11.0218	0.6112	-0.4751	0.0054	-0.0042
631	0.0000	0.0000	0.0000	8.5860	-6.5923	2.9940	-2.2988	0.0272	-0.0209
636	0.0000	0.0000	0.0000	14.0900	-10.8182	2.6070	-2.0016	0.0559	-0.0429
641	-0.0035	0.0000	0.0000	6.1540	-4.7250	1.6530	-1.2692	0.0142	-0.0109
647	0.0000	0.0000	0.0000	1.9380	-1.3157	2.4710	-1.6775	0.0075	-0.0051
652	-0.0073	0.0077	-0.0052	14.0600	-9.5452	3.3610	-2.2817	0.0339	-0.0230
657	-0.0045	0.0000	0.0000	3.3910	-2.3021	1.0720	-0.7278	0.0093	-0.0063
632	-0.0083	0.0000	0.0000	2.8950	-1.9615	2.5190	-1.7067	0.0180	-0.0122
637	0.0000	0.0000	0.0000	7.6710	-5.1974	1.7900	-1.2128	0.0331	-0.0224
642	0.0000	0.0017	-0.0012	4.3410	-2.9412	4.0610	-2.7515	0.0949	-0.0643
648	0.0000	0.0000	0.0000	3.0670	-1.5445	3.3110	-1.6674	0.0400	-0.0201
653	-0.0002	0.0019	-0.0010	1.6700	-0.8410	1.1930	-0.6008	0.0102	-0.0051
658	-0.0082	0.0022	-0.0011	1.3160	-0.6627	1.1290	-0.5686	0.0129	-0.0065

#	Cu3247	Fe2599	Fe2599	K_7698	K_7698	Mg2852	Mg2852	Mn2605	Mn2605
	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha
633	-0.0012	0.0000	0.0000	1.9040	-0.9716	2.0720	-1.0573	0.0174	-0.0089
638	0.0000	0.0000	0.0000	0.9340	-0.4766	4.3740	-2.2320	0.1341	-0.0684
643	0.0000	0.0033	-0.0017	3.5600	-1.8166	1.6570	-0.8455	0.0388	-0.0198
649	-0.0022	0.0000	0.0000	1.0830	-0.2659	1.5230	-0.3740	0.0260	-0.0064
654	-0.0006	0.0000	0.0000	0.7662	-0.1881	1.0120	-0.2485	0.0146	-0.0036
659	-0.0055	0.0000	0.0000	0.4557	-0.1119	1.5900	-0.3904	0.0387	-0.0095
634	0.0000	0.0000	0.0000	0.4776	-0.1183	0.7475	-0.1852	0.0090	-0.0022
639	-0.0056	0.0007	-0.0002	0.2119	-0.0525	1.3900	-0.3444	0.0622	-0.0154
644	0.0000	0.0000	0.0000	0.4704	-0.1165	0.6390	-0.1583	0.0190	-0.0047
650	0.0000	0.0000	0.0000	0.0961	-0.0182	0.0381	-0.0072	0.0009	-0.0002
655	-0.0027	0.0000	0.0000	0.1373	-0.0260	0.1112	-0.0211	0.0028	-0.0005
660	-0.0025	0.0000	0.0000	0.2178	-0.0413	0.1182	-0.0224	0.0043	-0.0008
635	-0.0024	0.0000	0.0000	0.0857	-0.0163	0.0401	-0.0076	0.0020	-0.0004
640	0.0000	0.0000	0.0000	0.1444	-0.0274	0.1441	-0.0273	0.0039	-0.0007
645	-0.0004	0.0000	0.0000	0.1248	-0.0237	0.1395	-0.0265	0.0044	-0.0008
676	-0.0064	0.0000	0.0000	2.9250	-0.7324	3.4540	-0.8649	0.0124	-0.0031
681	-0.0021	0.0006	-0.0002	2.6810	-0.6713	0.4101	-0.1027	0.0086	-0.0022
686	-0.0017	0.0000	0.0000	10.1900	-2.5515	0.4439	-0.1111	0.0037	-0.0009
661	0.0000	0.0001	0.0000	2.9640	-0.8319	1.4270	-0.4005	0.0104	-0.0029
666	-0.0014	0.0000	0.0000	9.3960	-2.6373	3.8680	-1.0857	0.0914	-0.0257
671	0.0000	0.0000	0.0000	4.1720	-1.1710	1.4840	-0.4165	0.0148	-0.0042
677	0.0000	0.0025	-0.0006	2.1370	-0.5363	3.2410	-0.8133	0.0104	-0.0026
682	-0.0021	0.0007	-0.0002	5.5020	-1.3807	2.7580	-0.6921	0.0151	-0.0038
687	-0.0014	0.0014	-0.0004	5.6270	-1.4120	1.4760	-0.3704	0.0143	-0.0036
662	-0.0022	0.0000	0.0000	2.0210	-0.4269	2.4510	-0.5178	0.0149	-0.0031
667	0.0000	0.0011	-0.0002	8.2240	-1.7374	1.9380	-0.4094	0.0341	-0.0072
672	-0.0007	0.0002	0.0000	3.7120	-0.7842	3.5960	-0.7597	0.0888	-0.0188
678	-0.0029	0.0003	-0.0001	3.5300	-1.0485	3.3510	-0.9954	0.0461	-0.0137
683	0.0000	0.0011	-0.0003	1.3230	-0.3930	1.1160	-0.3315	0.0105	-0.0031
688	0.0000	0.0042	-0.0012	1.3320	-0.3957	1.1530	-0.3425	0.0129	-0.0038
663	0.0000	0.0000	0.0000	2.0880	-0.5135	2.1070	-0.5182	0.0189	-0.0046
668	0.0000	0.0000	0.0000	0.9886	-0.2431	4.0160	-0.9877	0.1337	-0.0329
673	-0.0010	0.0023	-0.0006	3.6010	-0.8857	1.5570	-0.3829	0.0370	-0.0091
679	-0.0108	0.0000	0.0000	1.3380	-0.6758	2.0350	-1.0278	0.0319	-0.0161
684									
689	0.0000	0.0000	0.0000	0.3700	-0.1869	1.4740	-0.7445	0.0372	-0.0188
664	-0.0012	0.0000	0.0000	0.4925	-0.2194	0.7133	-0.3178	0.0105	-0.0047
669	-0.0098	0.0000	0.0000	0.1639	-0.0730	1.3300	-0.5925	0.0639	-0.0285
674	0.0000	0.0006	-0.0003	0.1427	-0.0636	0.2015	-0.0898	0.0019	-0.0008
680	-0.0050	0.0000	0.0000	0.0801	-0.0428	0.0407	-0.0218	0.0013	-0.0007
685	-0.0118	0.0000	0.0000	0.1337	-0.0715	0.1201	-0.0642	0.0028	-0.0015
690	0.0000	0.0000	0.0000	0.2332	-0.1247	0.1246	-0.0666	0.0043	-0.0023
665	-0.0005	0.0000	0.0000	0.0997	-0.0529	0.0332	-0.0176	0.0024	-0.0013
670	-0.0050	0.0003	-0.0002	0.1421	-0.0753	0.1398	-0.0741	0.0065	-0.0034
675	-0.0016	0.0000	0.0000	0.1427	-0.0757	0.1531	-0.0812	0.0048	-0.0025
706	0.0000	0.0008	-0.0002	4.9730	-1.2061	1.2360	-0.2998	0.0138	-0.0033

#	Cu3247	Fe2599	Fe2599	K_7698	K_7698	Mg2852	Mg2852	Mn2605	Mn2605
	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha
711	-0.0023	0.0000	0.0000	3.2310	-0.7836	0.5889	-0.1428	0.0133	-0.0032
716	-0.0001	0.0048	-0.0012	8.5670	-2.0778	0.3547	-0.0860	0.0029	-0.0007
691	0.0000	0.0000	0.0000	3.0430	-0.7357	3.7060	-0.8960	0.0119	-0.0029
696	0.0000	0.0008	-0.0002	10.3100	-2.4925	1.2560	-0.3036	0.0310	-0.0075
701	0.0000	0.0000	0.0000	3.9720	-0.9603	1.2420	-0.3003	0.0123	-0.0030
707	-0.0016	0.0000	0.0000	1.8690	-0.4172	2.4240	-0.5411	0.0145	-0.0032
712	-0.0054	0.0000	0.0000	17.2934	-3.8604	3.1312	-0.6990	0.0373	-0.0083
717	-0.0039	0.0002	0.0000	3.5560	-0.7938	1.0870	-0.2427	0.0094	-0.0021
692	0.0000	0.0000	0.0000	2.3890	-0.4546	3.6080	-0.6866	0.0116	-0.0022
697	0.0000	0.0037	-0.0007	8.6880	-1.6532	2.1780	-0.4144	0.0358	-0.0068
702	-0.0041	0.0019	-0.0004	3.0540	-0.5811	2.7960	-0.5320	0.0762	-0.0145
708	0.0000	0.0004	-0.0001	1.8320	-0.3894	1.9860	-0.4221	0.0181	-0.0038
713	-0.0015	0.0000	0.0000	1.7110	-0.3637	1.2110	-0.2574	0.0102	-0.0022
718	-0.0027	0.0000	0.0000	1.2930	-0.2748	1.0330	-0.2196	0.0116	-0.0025
693	0.0000	0.0000	0.0000	3.1780	-0.6452	3.2040	-0.6504	0.0396	-0.0080
698	-0.0003	0.0009	-0.0002	0.8976	-0.1822	3.8910	-0.7899	0.1194	-0.0242
703	-0.0013	0.0002	0.0000	3.5880	-0.7284	1.4370	-0.2917	0.0335	-0.0068
709	-0.0034	0.0000	0.0000	0.3995	-0.0880	0.5384	-0.1185	0.0092	-0.0020
714	-0.0013	0.0000	0.0000	0.5749	-0.1266	0.5049	-0.1112	0.0070	-0.0015
719	0.0000	0.0000	0.0000	0.3397	-0.0748	1.5850	-0.3490	0.0420	-0.0092
694	-0.0011	0.0000	0.0000	1.3900	-0.3009	2.2920	-0.4962	0.0348	-0.0075
699	-0.0035	0.0054	-0.0012	0.1799	-0.0389	1.3850	-0.2998	0.0663	-0.0144
704	-0.0041	0.0000	0.0000	0.1661	-0.0360	0.2457	-0.0532	0.0046	-0.0010
710	-0.0020	0.0000	0.0000	0.0988	-0.0258	0.0306	-0.0080	0.0021	-0.0005
715	-0.0051	0.0000	0.0000	0.1695	-0.0443	0.1133	-0.0296	0.0028	-0.0007
720	-0.0019	0.0000	0.0000	0.2356	-0.0615	0.1304	-0.0341	0.0043	-0.0011
695	0.0000	0.0000	0.0000	0.0658	-0.0168	0.0351	-0.0090	0.0012	-0.0003
700	-0.0042	0.0000	0.0000	0.1097	-0.0281	0.1427	-0.0365	0.0046	-0.0012
705	-0.0032	0.0000	0.0000	0.1104	-0.0282	0.1470	-0.0376	0.0046	-0.0012
736	-0.0049	0.0000	0.0000	2.4180	-0.8945	4.3260	-1.6003	0.0115	-0.0043
741	0.0000	0.0007	-0.0003	4.1580	-1.5381	0.7516	-0.2780	0.0183	-0.0068
746	0.0000	0.0009	-0.0003	8.1690	-3.0219	0.4380	-0.1620	0.0038	-0.0014
721	-0.0008	0.0000	0.0000	3.0460	-1.1456	1.0070	-0.3787	0.0093	-0.0035
726	0.0000	0.0075	-0.0028	9.6940	-3.6459	1.0360	-0.3896	0.0263	-0.0099
731	-0.0053	0.0000	0.0000	3.8150	-1.4348	0.8209	-0.3087	0.0081	-0.0030
737	0.0000	0.0000	0.0000	2.5690	-1.0526	3.7880	-1.5520	0.0125	-0.0051
742	-0.0050	0.0000	0.0000	4.6860	-1.9199	2.3640	-0.9686	0.0118	-0.0048
747	-0.0006	0.0002	-0.0001	2.9880	-1.2242	0.8386	-0.3436	0.0101	-0.0041
722	-0.0029	0.0000	0.0000	1.9680	-0.8000	2.3420	-0.9520	0.0141	-0.0057
727	-0.0047	0.0015	-0.0006	8.4300	-3.4266	1.9330	-0.7857	0.0343	-0.0139
732	0.0000	0.0000	0.0000	2.8660	-1.1650	2.1060	-0.8560	0.0541	-0.0220
738	-0.0005	0.0000	0.0000	3.3210	-1.3635	2.9400	-1.2071	0.0370	-0.0152
743	-0.0078	0.0000	0.0000	1.8530	-0.7608	1.1760	-0.4828	0.0100	-0.0041
748	0.0000	0.0000	0.0000	1.4150	-0.5810	0.9674	-0.3972	0.0112	-0.0046
723	0.0000	0.0000	0.0000	1.9240	-0.7862	1.9320	-0.7895	0.0178	-0.0073
728	0.0000	0.0052	-0.0021	1.0370	-0.4237	3.6890	-1.5074	0.1116	-0.0456

#	Cu3247	Fe2599	Fe2599	K_7698	K_7698	Mg2852	Mg2852	Mn2605	Mn2605
	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha
733	-0.0057	0.0003	-0.0001	3.7210	-1.5205	1.2670	-0.5177	0.0308	-0.0126
739	0.0000	0.0000	0.0000	1.3320	-0.3671	2.3140	-0.6377	0.0348	-0.0096
744	-0.0033	0.0042	-0.0012	0.7537	-0.2077	1.0770	-0.2968	0.0144	-0.0040
749	-0.0029	0.0000	0.0000	0.3911	-0.1078	1.4980	-0.4129	0.0428	-0.0118
724	0.0000	0.0000	0.0000	0.4415	-0.1214	0.5227	-0.1438	0.0098	-0.0027
729	-0.0027	0.0024	-0.0007	0.2216	-0.0609	1.2930	-0.3556	0.0629	-0.0173
734	-0.0067	0.0000	0.0000	0.1884	-0.0518	0.1892	-0.0520	0.0019	-0.0005
740	-0.0039	0.0000	0.0000	0.1503	-0.0327	0.0167	-0.0036	0.0009	-0.0002
745	0.0000	0.0121	-0.0026	0.2359	-0.0514	0.1137	-0.0248	0.0028	-0.0006
750	0.0000	0.0000	0.0000	0.2733	-0.0595	0.1231	-0.0268	0.0042	-0.0009
725	-0.0009	0.0000	0.0000	0.1200	-0.0261	0.0197	-0.0043	0.0020	-0.0004
730	-0.0001	0.0000	0.0000	0.1780	-0.0387	0.1386	-0.0301	0.0042	-0.0009
735	-0.0025	0.0000	0.0000	0.1962	-0.0426	0.1435	-0.0312	0.0043	-0.0009
766	-0.0013	0.0128	-0.0015	1.8200	-0.2203	5.0580	-0.6121	0.0136	-0.0016
771	-0.0028	0.0000	0.0000	3.0400	-0.3679	0.4853	-0.0587	0.0100	-0.0012
776	-0.0038	0.0000	0.0000	7.5960	-0.9193	0.5588	-0.0676	0.0049	-0.0006
751	0.0000	0.0426	-0.0051	3.8550	-0.4635	1.2160	-0.1462	0.0142	-0.0017
756	-0.0008	0.0000	0.0000	11.8800	-1.4285	0.5656	-0.0680	0.0159	-0.0019
761	-0.0032	0.0000	0.0000	3.0990	-0.3726	0.7478	-0.0899	0.0087	-0.0010
767	-0.0031	0.0000	0.0000	2.1830	-0.2853	3.6650	-0.4790	0.0117	-0.0015
772	-0.0032	0.0000	0.0000	2.2320	-0.2917	1.2450	-0.1627	0.0064	-0.0008
777	-0.0010	0.0000	0.0000	3.3500	-0.4379	0.8803	-0.1151	0.0113	-0.0015
752	-0.0015	0.0063	-0.0008	2.5780	-0.3368	1.7560	-0.2294	0.0113	-0.0015
757	-0.0012	0.0000	0.0000	11.0600	-1.4449	1.7060	-0.2229	0.0373	-0.0049
762	-0.0037	0.0121	-0.0016	2.6340	-0.3441	2.0390	-0.2664	0.0521	-0.0068
768	-0.0049	0.0000	0.0000	3.1020	-0.4821	2.8600	-0.4445	0.0361	-0.0056
773	-0.0046	0.0000	0.0000	1.7120	-0.2661	1.2310	-0.1913	0.0106	-0.0016
778	-0.0062	0.0007	-0.0001	1.1880	-0.1846	0.8270	-0.1285	0.0095	-0.0015
753	0.0000	0.0000	0.0000	2.4330	-0.3768	1.5560	-0.2410	0.0161	-0.0025
758	-0.0021	0.0000	0.0000	1.5950	-0.2470	3.2380	-0.5015	0.1077	-0.0167
763	-0.0062	0.0078	-0.0012	3.7900	-0.5870	1.3270	-0.2055	0.0328	-0.0051
769	-0.0052	0.0000	0.0000	1.0640	-0.2460	2.4270	-0.5611	0.0356	-0.0082
774	0.0000	0.0000	0.0000	0.6419	-0.1484	1.2340	-0.2853	0.0165	-0.0038
779	0.0000	0.0000	0.0000	0.2502	-0.0578	1.4980	-0.3463	0.0433	-0.0100
754	0.0000	0.0000	0.0000	0.8469	-0.1951	0.4286	-0.0987	0.0086	-0.0020
759	-0.0042	0.0000	0.0000	0.5706	-0.1314	1.1660	-0.2686	0.0638	-0.0147
764	-0.0045	0.0009	-0.0002	0.0255	-0.0059	0.1997	-0.0460	0.0012	-0.0003
770	0.0000	0.0000	0.0000	0.0203	-0.0067	0.0361	-0.0119	0.0008	-0.0003
775	-0.0115	0.0000	0.0000	0.0785	-0.0260	0.1100	-0.0364	0.0023	-0.0008
780	0.0000	0.0032	-0.0011	0.1822	-0.0602	0.1295	-0.0428	0.0038	-0.0013
755	-0.0059	0.0000	0.0000	0.4577	-0.1510	0.0239	-0.0079	0.0010	-0.0003
760	-0.0001	0.0000	0.0000	0.5238	-0.1728	0.1175	-0.0388	0.0032	-0.0011
765	0.0000	0.0000	0.0000	0.0906	-0.0299	0.1523	-0.0502	0.0046	-0.0015
802	0.0011	0.0000	0.0000	2.5280	0.0809	3.0302	0.0969	0.0114	0.0004

#	Cu3247	Fe2599	Fe2599	K_7698	K_7698	Mg2852	Mg2852	Mn2605	Mn2605
	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha
782	0.0008	0.0000	0.0000	2.1230	0.0675	2.3648	0.0752	0.0122	0.0004
798	0.0000	0.0013	0.0000	2.8260	0.0003	2.8350	0.0003	0.0326	0.0000
803	0.0000	0.0000	0.0000	1.8120	0.0002	1.2640	0.0002	0.0116	0.0000
808	0.0000	0.0031	0.0000	1.2400	0.0001	0.9150	0.0001	0.0110	0.0000
783	0.0000	0.0000	0.0000	1.5360	0.0013	1.8090	0.0015	0.0201	0.0000
788	0.0000	0.0250	0.0000	2.0027	0.0016	3.0162	0.0025	0.1453	0.0001
793	0.0000	0.0000	0.0000	6.5388	0.0054	2.1041	0.0017	0.0525	0.0000
799	-0.0015	0.0000	0.0000	1.2000	-0.0494	2.6240	-0.1081	0.0375	-0.0015
804	-0.0010	0.0000	0.0000	0.5979	-0.0246	1.0640	-0.0438	0.0146	-0.0006
809	-0.0010	0.0000	0.0000	0.2443	-0.0101	1.6310	-0.0672	0.0462	-0.0019
784	-0.0006	0.0000	0.0000	0.3073	-0.0122	0.4036	-0.0160	0.0078	-0.0003
789	-0.0015	0.0002	0.0000	0.1215	-0.0048	1.4040	-0.0557	0.0677	-0.0027
794	-0.0004	0.0000	0.0000	0.1055	-0.0042	0.2003	-0.0079	0.0014	-0.0001
800	-0.0047	0.0000	0.0000	0.0722	-0.0111	0.0245	-0.0038	0.0009	-0.0001
805	-0.0025	0.0000	0.0000	0.0965	-0.0148	0.0952	-0.0146	0.0021	-0.0003
810	-0.0040	0.0000	0.0000	0.1505	-0.0230	0.1166	-0.0179	0.0033	-0.0005
785	-0.0033	0.0000	0.0000	0.0378	-0.0057	0.0403	-0.0060	0.0013	-0.0002
790	-0.0014	0.0000	0.0000	0.1296	-0.0194	0.1544	-0.0232	0.0043	-0.0006
795	-0.0010	0.0000	0.0000	0.1362	-0.0204	0.1639	-0.0246	0.0047	-0.0007
829	0.0002	0.0010	0.0000	1.1130	0.0086	2.6660	0.0207	0.0371	0.0003
834	0.0002	0.0000	0.0000	0.7298	0.0057	1.0955	0.0085	0.0162	0.0001
839	0.0001	0.0000	0.0000	0.5433	0.0042	2.5101	0.0195	0.0738	0.0006
814	0.0001	0.0000	0.0000	0.3927	0.0031	0.5882	0.0046	0.0131	0.0001
819	0.0003	0.0000	0.0000	0.2409	0.0019	1.6055	0.0126	0.0845	0.0007
824	0.0001	0.0000	0.0000	0.0201	0.0002	0.2726	0.0021	0.0019	0.0000
830	-0.0003	0.0000	0.0000	0.1034	-0.0080	0.0249	-0.0019	0.0008	-0.0001
835	-0.0012	0.0000	0.0000	0.5685	-0.0441	0.2115	-0.0164	0.0056	-0.0004
840	-0.0005	0.0000	0.0000	0.1825	-0.0142	0.1067	-0.0083	0.0032	-0.0002
815	-0.0022	0.0000	0.0000	0.0861	-0.0065	0.0336	-0.0025	0.0011	-0.0001
820	-0.0001	0.0000	0.0000	0.1609	-0.0122	0.1483	-0.0113	0.0047	-0.0004
825	-0.0003	0.0000	0.0000	0.1376	-0.0104	0.1740	-0.0132	0.0037	-0.0003
859	0.0005	0.0001	0.0000	1.2680	0.0252	2.8390	0.0564	0.0384	0.0008
860	0.0000	0.0008	0.0000	0.1015	-0.0052	0.0260	-0.0013	0.0012	-0.0001
870	-0.0006	0.0000	0.0000	0.1495	-0.0076	0.2083	-0.0106	0.0054	-0.0003
845	-0.0010	0.0000	0.0000	0.0708	-0.0035	0.0284	-0.0014	0.0013	-0.0001
850	-0.0006	0.0000	0.0000	0.2455	-0.0122	0.2333	-0.0116	0.0068	-0.0003
855	-0.0012	0.0000	0.0000	0.2230	-0.0111	0.1028	-0.0051	0.0033	-0.0002
889	0.0000	0.0000	0.0000	1.0495	0.0000	2.3351	0.0000	0.0426	0.0000
899	0.0000	0.0000	0.0000	0.6043	0.0000	3.3115	0.0000	0.0919	0.0000
890	0.0000	0.0000	0.0000	0.1537	0.0000	0.1156	0.0000	0.0024	0.0000
900	0.0000	0.0000	0.0000	0.1943	0.0000	0.1060	0.0000	0.0032	0.0000
875	0.0000	0.0000	0.0000	0.0596	0.0000	0.0320	0.0000	0.0013	0.0000
880	0.0000	0.0001	0.0000	0.1195	0.0000	0.1700	0.0000	0.0051	0.0000

#	Mo2020	Mo2020	Na5889	Na5889	P_1774	P_1774	S_1820	S_1820	Sr4215
	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
16	0.0000	0.0000	0.0000	0.0000	0.0090	-0.0095	0.8355	-0.8820	0.0105
21	0.0000	0.0000	0.2925	-0.3088	0.0256	-0.0270	0.6789	-0.7167	0.0585
26	0.0000	0.0000	0.0029	-0.0031	0.0202	-0.0213	0.2668	-0.2816	0.0113
1	0.0000	0.0000	1.2130	-1.2809	0.0136	-0.0144	16.7800	-17.7195	0.0943
6	0.0000	0.0000	2.0910	-2.2081	0.0092	-0.0097	0.4139	-0.4371	0.1233
11	0.0000	0.0000	0.1286	-0.1358	0.0103	-0.0109	0.5425	-0.5729	0.0171
17	0.0000	0.0000	0.9149	-0.8876	0.0080	-0.0078	0.0396	-0.0384	0.0271
22	0.0000	0.0000	0.8386	-0.8136	0.0084	-0.0081	0.3113	-0.3020	0.0716
27	0.0000	0.0000	0.8865	-0.8600	0.0121	-0.0117	0.0619	-0.0601	0.0335
2	0.0000	0.0000	0.5557	-0.5363	0.0052	-0.0050	0.0422	-0.0407	0.0177
7	0.0000	0.0000	1.2140	-1.1716	0.0078	-0.0075	0.3272	-0.3158	0.0602
12	0.0000	0.0000	2.3320	-2.2505	0.0084	-0.0081	0.1416	-0.1366	0.0732
18	0.0000	0.0000	6.7610	-5.7148	0.0099	-0.0084	0.5442	-0.4600	0.0104
23	0.0000	0.0000	0.0244	-0.0206	0.0086	-0.0073	0.0503	-0.0425	0.0278
28	0.0000	0.0000	0.4059	-0.3431	0.0094	-0.0079	0.0527	-0.0445	0.0167
3	0.0000	0.0000	0.0068	-0.0057	0.0079	-0.0066	0.0129	-0.0107	0.0069
8	0.0000	0.0000	0.5403	-0.4492	0.0083	-0.0069	0.0774	-0.0643	0.0441
13	0.0000	0.0000	0.7663	-0.6371	0.0084	-0.0070	0.0772	-0.0642	0.0261
19	0.0000	0.0000	0.4736	-0.3114	0.0098	-0.0064	0.0347	-0.0228	0.0080
24	0.0000	0.0000	0.3246	-0.2135	0.0096	-0.0063	0.0612	-0.0402	0.0106
29	0.0000	0.0000	0.3169	-0.2084	0.0092	-0.0061	0.0971	-0.0639	0.0224
4	0.0000	0.0000	0.6676	-0.4261	0.0073	-0.0047	0.0492	-0.0314	0.0094
9	0.0000	0.0000	1.4440	-0.9217	0.0095	-0.0061	0.0747	-0.0477	0.0273
14	0.0000	0.0000	0.3264	-0.2083	0.0102	-0.0065	0.0519	-0.0331	0.0070
20	0.0000	0.0000	0.1644	-0.0834	0.0094	-0.0048	0.0354	-0.0180	0.0023
25	0.0000	0.0000	0.1218	-0.0618	0.0118	-0.0060	0.0876	-0.0444	0.0056
30	0.0000	0.0000	0.2366	-0.1200	0.0076	-0.0039	0.0618	-0.0313	0.0044
5	0.0000	0.0000	0.4124	-0.1962	0.0089	-0.0042	0.0567	-0.0270	0.0036
10	0.0000	0.0000	0.7964	-0.3788	0.0095	-0.0045	0.1470	-0.0699	0.0112
15	0.0000	0.0000	0.1359	-0.0646	0.0073	-0.0035	0.0350	-0.0166	0.0040
46	0.0000	0.0000	0.0000	0.0000	0.0127	-0.0020	1.0150	-0.1610	0.0095
51	0.0000	0.0000	0.0617	-0.0098	0.0187	-0.0030	0.7037	-0.1116	0.0334
56	0.0000	0.0000	0.0614	-0.0097	0.0249	-0.0039	0.2807	-0.0445	0.0140
31	0.0000	0.0000	0.1633	-0.0263	0.0167	-0.0027	14.0800	-2.2660	0.0471
36	0.0000	0.0000	1.6130	-0.2596	0.0137	-0.0022	0.4467	-0.0719	0.1063
41	0.0000	0.0000	0.1614	-0.0260	0.0232	-0.0037	0.5387	-0.0867	0.0178
47	0.0000	0.0000	0.2080	-0.0293	0.0120	-0.0017	0.0660	-0.0093	0.0206
52	0.0000	0.0000	0.8835	-0.1242	0.0114	-0.0016	0.2848	-0.0401	0.0859
57	0.0000	0.0000	0.6347	-0.0893	0.0394	-0.0055	0.3653	-0.0514	0.0266
32	0.0000	0.0000	0.3357	-0.0457	0.0104	-0.0014	0.0497	-0.0068	0.0161
37	0.0000	0.0000	0.6264	-0.0853	0.0101	-0.0014	0.3804	-0.0518	0.0508
42	0.0000	0.0000	2.2130	-0.3015	0.0438	-0.0060	0.4269	-0.0582	0.0855
48	0.0000	0.0000	3.9830	-0.5344	0.0106	-0.0014	0.2933	-0.0394	0.0144
53	0.0000	0.0000	0.1317	-0.0177	0.0097	-0.0013	0.0559	-0.0075	0.0293
58									
33	0.0000	0.0000	0.7374	-0.0937	0.0119	-0.0015	0.0568	-0.0072	0.0251

#	Mo2020	Mo2020	Na5889	Na5889	P_1774	P_1774	S_1820	S_1820	Sr4215
	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
38	0.0000	0.0000	0.5913	-0.0752	0.0119	-0.0015	0.0836	-0.0106	0.0479
43	0.0000	0.0000	0.8710	-0.1107	0.0318	-0.0040	0.2972	-0.0378	0.0383
49	0.0000	0.0000	0.4380	-0.0805	0.0110	-0.0020	0.0693	-0.0127	0.0115
54	0.0000	0.0000	0.3210	-0.0590	0.0118	-0.0022	0.0982	-0.0181	0.0137
59									
34	0.0000	0.0000	0.5455	-0.0942	0.0107	-0.0018	0.0812	-0.0140	0.0061
39	0.0000	0.0000	0.9939	-0.1717	0.0145	-0.0025	0.1582	-0.0273	0.0256
44	0.0000	0.0000	0.5313	-0.0918	0.0442	-0.0076	0.3076	-0.0531	0.0199
50	0.0000	0.0000	0.1143	-0.0229	0.0101	-0.0020	0.0545	-0.0109	0.0025
55	0.0000	0.0000	0.1873	-0.0375	0.0179	-0.0036	0.1467	-0.0293	0.0112
60									
35	0.0000	0.0000	0.2729	-0.0517	0.0116	-0.0022	0.1095	-0.0207	0.0054
40	0.0000	0.0000	0.7697	-0.1457	0.0235	-0.0044	0.2047	-0.0388	0.0127
45	0.0000	0.0000	0.2046	-0.0387	0.0251	-0.0048	0.2510	-0.0475	0.0135
76	0.0000	0.0000	0.1902	-0.0554	0.0097	-0.0028	0.4642	-0.1352	0.0203
81	0.0000	0.0000	0.1464	-0.0426	0.0154	-0.0045	0.7000	-0.2039	0.0348
86	0.0000	0.0000	0.0369	-0.0107	0.0132	-0.0038	0.2864	-0.0834	0.0122
61	0.0000	0.0000	0.1853	-0.0548	0.0130	-0.0038	13.1000	-3.8746	0.0557
66	0.0000	0.0000	1.3460	-0.3981	0.0233	-0.0069	0.4767	-0.1410	0.1201
71	0.0000	0.0000	0.1076	-0.0318	0.0111	-0.0033	0.2367	-0.0700	0.0297
77	0.0000	0.0000	0.5029	-0.1653	0.0116	-0.0038	0.0387	-0.0127	0.0263
82	0.0000	0.0000	0.7163	-0.2355	0.0135	-0.0044	0.2612	-0.0859	0.0861
87	0.0000	0.0000	0.6934	-0.2280	0.0123	-0.0040	0.0699	-0.0230	0.0421
62	0.0000	0.0000	0.2927	-0.0909	0.0116	-0.0036	0.0403	-0.0125	0.0203
67	0.0000	0.0000	0.8623	-0.2677	0.0119	-0.0037	0.3703	-0.1150	0.0638
72	0.0000	0.0000	3.3560	-1.0420	0.0090	-0.0028	0.1015	-0.0315	0.1324
78	0.0000	0.0000	2.3560	-0.8372	0.0090	-0.0032	0.2138	-0.0760	0.0138
83	0.0000	0.0000	0.3584	-0.1274	0.0088	-0.0031	0.0446	-0.0158	0.0278
88	0.0000	0.0000	0.5337	-0.1896	0.0095	-0.0034	0.0522	-0.0185	0.0151
63	0.0000	0.0000	0.8585	-0.3004	0.0124	-0.0043	0.0464	-0.0162	0.0241
68	0.0000	0.0000	0.6502	-0.2275	0.0124	-0.0043	0.0740	-0.0259	0.0454
73	0.0000	0.0000	1.0320	-0.3611	0.0108	-0.0038	0.0805	-0.0282	0.0305
79	0.0000	0.0000	0.4690	-0.1604	0.0101	-0.0035	0.0375	-0.0128	0.0083
84	0.0001	0.0000	0.3962	-0.1355	0.0090	-0.0031	0.0607	-0.0208	0.0107
89	0.0000	0.0000	0.5915	-0.2023	0.0091	-0.0031	0.0668	-0.0228	0.0104
64	0.0000	0.0000	0.5994	-0.2019	0.0108	-0.0036	0.0418	-0.0141	0.0042
69	0.0000	0.0000	1.7290	-0.5823	0.0122	-0.0041	0.0760	-0.0256	0.0278
74	0.0001	0.0000	0.4718	-0.1589	0.0073	-0.0025	0.0331	-0.0111	0.0060
80	0.0000	0.0000	0.1959	-0.0649	0.0092	-0.0030	0.0391	-0.0130	0.0017
85	0.0000	0.0000	0.1879	-0.0623	0.0095	-0.0031	0.0672	-0.0223	0.0036
90	0.0000	0.0000	0.3292	-0.1091	0.0111	-0.0037	0.0476	-0.0158	0.0030
65	0.0000	0.0000	0.2443	-0.0790	0.0147	-0.0048	0.0747	-0.0242	0.0033
70	0.0000	0.0000	0.5628	-0.1820	0.0117	-0.0038	0.0947	-0.0306	0.0080
75	0.0000	0.0000	0.1260	-0.0407	0.0090	-0.0029	0.0398	-0.0129	0.0043
106	0.0000	0.0000	0.2926	-0.1977	0.0005	-0.0003	0.2449	-0.1655	0.0278
111	0.0000	0.0000	0.2229	-0.1506	0.0026	-0.0018	1.0040	-0.6784	0.0209

#	Mo2020	Mo2020	Na5889	Na5889	P_1774	P_1774	S_1820	S_1820	Sr4215
	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
116	0.0000	0.0000	0.2552	-0.1724	0.0027	-0.0018	0.2054	-0.1388	0.0166
91	0.0000	0.0000	0.2097	-0.1427	0.0028	-0.0019	10.9200	-7.4311	0.0430
96	0.0000	0.0000	1.2340	-0.8397	0.0024	-0.0016	0.5545	-0.3773	0.0887
101	0.0000	0.0000	0.2193	-0.1492	0.0005	-0.0003	0.1399	-0.0952	0.0225
107	0.0000	0.0000	0.3435	-0.2123	0.0003	-0.0002	0.0470	-0.0290	0.0211
112	0.0000	0.0000	0.4646	-0.2871	0.0000	0.0000	0.2612	-0.1614	0.0607
117	0.0000	0.0000	0.5683	-0.3512	0.0009	-0.0006	0.0741	-0.0458	0.0398
92	0.0000	0.0000	0.4796	-0.2983	0.0022	-0.0014	0.0392	-0.0244	0.0314
97	0.0000	0.0000	1.0890	-0.6772	0.0000	0.0000	0.3448	-0.2144	0.0791
102	0.0000	0.0000	2.4990	-1.5541	0.0010	-0.0006	0.1055	-0.0656	0.1161
108	0.0000	0.0000	1.8070	-0.9872	0.0023	-0.0013	0.1968	-0.1075	0.0160
113	0.0000	0.0000	0.4504	-0.2461	0.0014	-0.0008	0.0423	-0.0231	0.0288
118	0.0000	0.0000	0.6709	-0.3665	0.0053	-0.0029	0.0743	-0.0406	0.0157
93	0.0000	0.0000	1.5320	-0.8425	0.0000	0.0000	0.0374	-0.0206	0.0215
98	0.0000	0.0000	0.7841	-0.4312	0.0012	-0.0007	0.0746	-0.0410	0.0474
103	0.0000	0.0000	1.1820	-0.6500	0.0000	0.0000	0.0627	-0.0345	0.0339
109	0.0000	0.0000	0.5593	-0.2471	0.0004	-0.0002	0.0333	-0.0147	0.0087
114	0.0000	0.0000	0.5120	-0.2262	0.0016	-0.0007	0.0614	-0.0271	0.0115
119	0.0000	0.0000	0.7781	-0.3438	0.0053	-0.0023	0.1400	-0.0619	0.0212
94	0.0000	0.0000	0.7935	-0.3479	0.0039	-0.0017	0.0475	-0.0208	0.0069
99	0.0000	0.0000	2.2430	-0.9834	0.0057	-0.0025	0.0629	-0.0276	0.0248
104	0.0000	0.0000	0.6368	-0.2792	0.0000	0.0000	0.0325	-0.0142	0.0065
110	0.0000	0.0000	0.3668	-0.1383	0.0011	-0.0004	0.0451	-0.0170	0.0024
115	0.0000	0.0000	0.3247	-0.1224	0.0019	-0.0007	0.0748	-0.0282	0.0048
120	0.0000	0.0000	0.3971	-0.1497	0.0062	-0.0023	0.0463	-0.0175	0.0041
100	0.0000	0.0000	0.9090	-0.3377	0.0000	0.0000	0.0895	-0.0332	0.0077
105	0.0000	0.0000	0.2874	-0.1068	0.0032	-0.0012	0.0401	-0.0149	0.0043
136	0.0000	0.0000	0.2851	-0.0279	0.0033	-0.0003	0.2261	-0.0222	0.0393
141	0.0009	-0.0001	0.0545	-0.0053	0.0050	-0.0005	1.8920	-0.1854	0.0080
146	0.0000	0.0000	0.2646	-0.0259	0.0033	-0.0003	0.1890	-0.0185	0.0177
121	0.0003	0.0000	0.1596	-0.0175	0.0022	-0.0002	9.4710	-1.0392	0.0222
126	0.0000	0.0000	0.4030	-0.0442	0.0022	-0.0002	0.9522	-0.1045	0.0316
131	0.0000	0.0000	0.1094	-0.0120	0.0013	-0.0001	0.1178	-0.0129	0.0242
137	0.0000	0.0000	0.3494	-0.0535	0.0028	-0.0004	0.0300	-0.0046	0.0221
142	0.0000	0.0000	0.1609	-0.0246	0.0033	-0.0005	0.2472	-0.0378	0.0276
147	0.0000	0.0000	0.3754	-0.0575	0.0045	-0.0007	0.0491	-0.0075	0.0431
122	0.0002	0.0000	0.5194	-0.0781	0.0012	-0.0002	0.0186	-0.0028	0.0463
127	0.0002	0.0000	1.0050	-0.1511	0.0009	-0.0001	0.3252	-0.0489	0.0956
132	0.0000	0.0000	1.1860	-0.1783	0.0064	-0.0010	0.0962	-0.0145	0.0901
138	0.0000	0.0000	1.6320	-0.3864	0.0036	-0.0009	0.2041	-0.0483	0.0161
143	0.0002	0.0000	0.3077	-0.0728	0.0020	-0.0005	0.0310	-0.0073	0.0270
148	0.0000	0.0000	0.6553	-0.1551	0.0048	-0.0011	0.0412	-0.0098	0.0157
123	0.0003	-0.0001	2.1500	-0.4916	0.0000	0.0000	0.0253	-0.0058	0.0222
128	0.0004	-0.0001	0.7350	-0.1680	0.0000	0.0000	0.0393	-0.0090	0.0488
133	0.0003	-0.0001	0.9629	-0.2201	0.0032	-0.0007	0.0533	-0.0122	0.0383

#	Mo2020	Mo2020	Na5889	Na5889	P_1774	P_1774	S_1820	S_1820	Sr4215
	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
139	0.0000	0.0000	0.5641	-0.2048	0.0011	-0.0004	0.0236	-0.0086	0.0087
144	0.0000	0.0000	0.4715	-0.1712	0.0066	-0.0024	0.0329	-0.0119	0.0122
149	0.0000	0.0000	0.7591	-0.2756	0.0060	-0.0022	0.0855	-0.0310	0.0194
124	0.0000	0.0000	0.8234	-0.2873	0.0029	-0.0010	0.0220	-0.0077	0.0049
129	0.0006	-0.0002	2.3180	-0.8089	0.0015	-0.0005	0.0367	-0.0128	0.0240
134	0.0000	0.0000	0.6239	-0.2177	0.0024	-0.0008	0.0257	-0.0090	0.0066
140	0.0000	0.0000	0.3603	-0.1756	0.0021	-0.0010	0.0233	-0.0114	0.0032
145	0.0000	0.0000	0.3025	-0.1474	0.0045	-0.0022	0.0436	-0.0212	0.0045
150	0.0000	0.0000	0.4529	-0.2207	0.0011	-0.0005	0.0282	-0.0137	0.0041
130	0.0002	-0.0001	0.7595	-0.3615	0.0062	-0.0030	0.0683	-0.0325	0.0079
135	0.0000	0.0000	0.2510	-0.1195	0.0017	-0.0008	0.0299	-0.0142	0.0047
166	0.0000	0.0000	0.3488	-0.1808	0.0038	-0.0020	3.9690	-2.0578	0.0125
171	0.0000	0.0000	0.3161	-0.1639	0.0026	-0.0013	2.4990	-1.2956	0.0061
176	0.0000	0.0000	0.5741	-0.2976	0.0072	-0.0037	0.3181	-0.1649	0.0162
151	0.0000	0.0000	0.6722	-0.3682	0.0019	-0.0010	0.2989	-0.1637	0.0676
156	0.0000	0.0000	0.4817	-0.2638	0.0076	-0.0042	1.6100	-0.8818	0.0253
161	0.0000	0.0000	0.3928	-0.2151	0.0017	-0.0009	0.1847	-0.1012	0.0380
167	0.0000	0.0000	0.5786	-0.2957	0.0016	-0.0008	0.0430	-0.0220	0.0492
172	0.0000	0.0000	0.3280	-0.1676	0.0030	-0.0015	0.5881	-0.3005	0.0098
177	0.0000	0.0000	0.5374	-0.2746	0.0056	-0.0029	0.0812	-0.0415	0.0367
152	0.0000	0.0000	0.5131	-0.2778	0.0005	-0.0003	0.0425	-0.0230	0.0215
157	0.0000	0.0000	1.1920	-0.6453	0.0063	-0.0034	0.3335	-0.1806	0.1072
162	0.0000	0.0000	1.2210	-0.6610	0.0035	-0.0019	0.1101	-0.0596	0.1130
168	0.0000	0.0000	2.0880	-1.0303	0.0012	-0.0006	0.0568	-0.0280	0.0252
173	0.0000	0.0000	0.4327	-0.2135	0.0025	-0.0012	0.0610	-0.0301	0.0220
178	0.0000	0.0000	0.7917	-0.3907	0.0032	-0.0016	0.0663	-0.0327	0.0159
153	0.0000	0.0000	1.5410	-0.8034	0.0000	0.0000	0.1674	-0.0873	0.0206
158	0.0000	0.0000	0.8568	-0.4467	0.0000	0.0000	0.0925	-0.0482	0.0527
163	0.0001	-0.0001	1.1050	-0.5761	0.0012	-0.0006	0.0749	-0.0390	0.0463
169	0.0000	0.0000	0.9166	-0.4220	0.0015	-0.0007	0.0408	-0.0188	0.0071
174	0.0000	0.0000	0.6553	-0.3017	0.0022	-0.0010	0.0380	-0.0175	0.0130
179	0.0000	0.0000	0.8526	-0.3925	0.0054	-0.0025	0.0682	-0.0314	0.0217
154	0.0000	0.0000	0.7393	-0.3464	0.0004	-0.0002	0.0385	-0.0180	0.0093
159	0.0000	0.0000	2.4620	-1.1536	0.0036	-0.0017	0.0543	-0.0254	0.0243
164	0.0000	0.0000	0.8463	-0.3966	0.0041	-0.0019	0.0399	-0.0187	0.0068
175	0.0000	0.0000	0.5003	-0.2204	0.0042	-0.0018	0.0598	-0.0263	0.0040
180	0.0000	0.0000	0.6663	-0.2935	0.0022	-0.0010	0.0466	-0.0205	0.0040
155	0.0000	0.0000	0.6296	-0.2818	0.0001	0.0000	0.0321	-0.0144	0.0036
160	0.0000	0.0000	0.9422	-0.4217	0.0041	-0.0018	0.0845	-0.0378	0.0080
165	0.0000	0.0000	0.4947	-0.2214	0.0026	-0.0012	0.0479	-0.0214	0.0047
196	0.0001	-0.0001	0.2801	-0.1997	0.0080	-0.0057	0.2434	-0.1735	0.0374
201	0.0000	0.0000	0.0000	0.0000	0.0127	-0.0091	2.4090	-1.7174	0.0044
206	0.0003	-0.0002	0.0273	-0.0195	0.0073	-0.0052	0.4586	-0.3269	0.0064
181	0.0000	0.0000	0.1440	-0.1068	0.0085	-0.0063	4.7060	-3.4897	0.0196

#	Mo2020	Mo2020	Na5889	Na5889	P_1774	P_1774	S_1820	S_1820	Sr4215
	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
186	0.0000	0.0000	0.1937	-0.1436	0.0047	-0.0035	2.0500	-1.5202	0.0140
191	0.0000	0.0000	0.1472	-0.1092	0.0111	-0.0082	0.3272	-0.2426	0.0079
197	0.0000	0.0000	0.0970	-0.0668	0.0097	-0.0067	0.0367	-0.0253	0.0130
202	0.0000	0.0000	0.0141	-0.0097	0.0076	-0.0052	0.5482	-0.3777	0.0040
207									
182	0.0000	0.0000	0.2261	-0.1618	0.0048	-0.0034	0.0571	-0.0409	0.0319
187	0.0000	0.0000	1.0890	-0.7791	0.0080	-0.0057	0.3669	-0.2625	0.1077
192	0.0000	0.0000	0.9213	-0.6592	0.0111	-0.0079	0.1108	-0.0793	0.1080
198	0.0007	-0.0005	0.7482	-0.4877	0.0108	-0.0070	0.0897	-0.0585	0.0187
203	0.0000	0.0000	0.0993	-0.0647	0.0106	-0.0069	0.0448	-0.0292	0.0190
208	0.0002	-0.0001	0.3886	-0.2533	0.0102	-0.0066	0.0423	-0.0276	0.0152
183	0.0000	0.0000	1.0600	-0.7096	0.0053	-0.0035	0.0389	-0.0260	0.0258
188	0.0000	0.0000	0.7367	-0.4932	0.0092	-0.0062	0.0883	-0.0591	0.0538
193	0.0000	0.0000	0.7262	-0.4861	0.0054	-0.0036	0.0596	-0.0399	0.0555
199	0.0000	0.0000	0.3036	-0.1867	0.0067	-0.0041	0.0379	-0.0233	0.0098
204	0.0003	-0.0002	0.4338	-0.2668	0.0085	-0.0052	0.0289	-0.0178	0.0084
209	0.0001	-0.0001	0.6673	-0.4104	0.0128	-0.0079	0.0486	-0.0299	0.0180
184	0.0000	0.0000	0.4634	-0.2893	0.0082	-0.0051	0.0318	-0.0199	0.0064
189	0.0000	0.0000	2.3380	-1.4598	0.0084	-0.0052	0.0507	-0.0317	0.0235
194	0.0001	-0.0001	0.6519	-0.4070	0.0106	-0.0066	0.0252	-0.0157	0.0068
200	0.0003	-0.0002	0.2918	-0.1795	0.0109	-0.0067	0.0284	-0.0175	0.0019
205	0.0003	-0.0002	0.2097	-0.1290	0.0171	-0.0105	0.0399	-0.0245	0.0089
210	0.0000	0.0000	0.3524	-0.2168	0.0099	-0.0061	0.0298	-0.0183	0.0030
190	0.0000	0.0000	0.8119	-0.5048	0.0078	-0.0048	0.0710	-0.0441	0.0062
195	0.0000	0.0000	0.2181	-0.1356	0.0085	-0.0053	0.0223	-0.0139	0.0038
226	0.0000	0.0000	0.0723	-0.0870	0.0382	-0.0460	0.3247	-0.3909	0.0143
231	0.0000	0.0000	0.0000	0.0000	0.0096	-0.0116	2.2080	-2.6584	0.0045
236	0.0003	-0.0004	0.1095	-0.1318	0.0142	-0.0171	0.3853	-0.4639	0.0099
211	0.0000	0.0000	0.1128	-0.1395	0.0106	-0.0131	7.6480	-9.4560	0.0278
216	0.0000	0.0000	0.0190	-0.0235	0.0123	-0.0152	2.3380	-2.8907	0.0072
221	0.0001	-0.0001	0.0000	0.0000	0.0086	-0.0106	0.4662	-0.5764	0.0043
227	0.0000	0.0000	0.0336	-0.0377	0.0078	-0.0087	0.0763	-0.0856	0.0117
232	0.0004	-0.0004	0.0000	0.0000	0.0080	-0.0090	0.5060	-0.5675	0.0031
237	0.0001	-0.0001	0.2339	-0.2623	0.0080	-0.0090	0.0477	-0.0535	0.0261
212	0.0000	0.0000	0.0520	-0.0599	0.0100	-0.0115	0.1744	-0.2010	0.0229
217	0.0001	-0.0001	0.8951	-1.0314	0.0096	-0.0111	0.6612	-0.7619	0.0965
222	0.0001	-0.0001	0.1882	-0.2169	0.0088	-0.0101	0.1848	-0.2129	0.0319
228	0.0003	-0.0003	0.6031	-0.5887	0.0105	-0.0102	0.0830	-0.0810	0.0219
233	0.0002	-0.0002	0.0362	-0.0353	0.0109	-0.0106	0.0463	-0.0452	0.0137
238	0.0003	-0.0003	0.3569	-0.3484	0.0135	-0.0132	0.0485	-0.0473	0.0154
213	0.0000	0.0000	0.4657	-0.4654	0.0097	-0.0097	0.0623	-0.0623	0.0231
218	0.0000	0.0000	0.5797	-0.5793	0.0143	-0.0143	0.0622	-0.0622	0.0517
223	0.0003	-0.0003	0.4447	-0.4444	0.0347	-0.0347	0.0563	-0.0563	0.0597
229	0.0000	0.0000	0.2551	-0.1952	0.0124	-0.0095	0.0218	-0.0167	0.0075
234	0.0001	-0.0001	0.2265	-0.1734	0.0089	-0.0068	0.0213	-0.0163	0.0115

#	Mo2020	Mo2020	Na5889	Na5889	P_1774	P_1774	S_1820	S_1820	Sr4215
	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
239	0.0002	-0.0002	0.4781	-0.3659	0.0268	-0.0205	0.0401	-0.0307	0.0204
214	0.0002	-0.0002	0.2793	-0.2161	0.0105	-0.0081	0.0208	-0.0161	0.0060
219	0.0003	-0.0002	1.9860	-1.5365	0.0132	-0.0102	0.0572	-0.0443	0.0237
224	0.0000	0.0000	0.4820	-0.3729	0.0104	-0.0080	0.0251	-0.0194	0.0061
230	0.0000	0.0000	0.2793	-0.1712	0.0106	-0.0065	0.0219	-0.0134	0.0020
235	0.0000	0.0000	0.1908	-0.1170	0.0117	-0.0072	0.0400	-0.0245	0.0037
240	0.0000	0.0000	0.3158	-0.1936	0.0117	-0.0072	0.0269	-0.0165	0.0017
220	0.0001	-0.0001	0.5819	-0.3773	0.0107	-0.0069	0.0517	-0.0335	0.0049
225	0.0000	0.0000	0.1455	-0.0943	0.0104	-0.0067	0.0244	-0.0158	0.0038
256	0.0000	0.0000	0.3116	-0.1958	0.0047	-0.0030	0.1174	-0.0738	0.0169
261	0.0000	0.0000	0.1738	-0.1092	0.0000	0.0000	2.4000	-1.5085	0.0080
266	0.0001	-0.0001	0.2232	-0.1403	0.0022	-0.0014	0.4775	-0.3001	0.0061
241	0.0000	0.0000	0.0663	-0.0415	0.0075	-0.0047	4.0590	-2.5426	0.0146
246	0.0000	0.0000	0.0000	0.0000	0.0100	-0.0063	2.1350	-1.3374	0.0046
251	0.0001	-0.0001	0.0962	-0.0603	0.0026	-0.0016	0.5674	-0.3554	0.0110
257	0.0002	-0.0001	0.2354	-0.1382	0.0056	-0.0033	0.0436	-0.0256	0.0155
262	0.0000	0.0000	0.7491	-0.4399	0.0003	-0.0002	0.9582	-0.5627	0.0815
267	0.0000	0.0000	0.2164	-0.1271	0.0035	-0.0021	0.0363	-0.0213	0.0215
242	0.0000	0.0000	0.0000	0.0000	0.0081	-0.0047	0.0444	-0.0257	0.0161
247	0.0000	0.0000	0.0000	0.0000	0.0058	-0.0034	0.6037	-0.3500	0.0029
252	0.0002	-0.0001	0.2076	-0.1204	0.0053	-0.0031	0.0547	-0.0317	0.0184
258	0.0000	0.0000	0.7371	-0.3986	0.0027	-0.0015	0.0819	-0.0443	0.0421
263	0.0000	0.0000	0.7165	-0.3875	0.0040	-0.0022	0.0583	-0.0315	0.0699
268	0.0005	-0.0003	0.4049	-0.2190	0.0053	-0.0029	0.0299	-0.0162	0.0156
243	0.0000	0.0000	0.5663	-0.3002	0.0062	-0.0033	0.0247	-0.0131	0.0341
248	0.0000	0.0000	0.0000	0.0000	0.0096	-0.0051	0.0454	-0.0241	0.0090
253	0.0000	0.0000	0.4189	-0.2221	0.0000	0.0000	0.0375	-0.0199	0.0681
259	0.0003	-0.0002	0.5003	-0.2773	0.0011	-0.0006	0.0329	-0.0182	0.0103
264	0.0001	-0.0001	1.6520	-0.9156	0.0123	-0.0068	0.0471	-0.0261	0.0223
269	0.0002	-0.0001	0.8984	-0.4979	0.0127	-0.0070	0.0871	-0.0483	0.0145
244	0.0003	-0.0002	0.3976	-0.2175	0.0090	-0.0049	0.0203	-0.0111	0.0048
249	0.0005	-0.0003	0.4485	-0.2453	0.0025	-0.0014	0.0422	-0.0231	0.0113
254	0.0002	-0.0001	0.4368	-0.2389	0.0055	-0.0030	0.0367	-0.0201	0.0161
260	0.0001	-0.0001	0.4511	-0.2823	0.0026	-0.0016	0.0332	-0.0208	0.0029
265	0.0001	-0.0001	0.6496	-0.4066	0.0072	-0.0045	0.0391	-0.0245	0.0045
270	0.0002	-0.0001	0.4217	-0.2639	0.0048	-0.0030	0.0270	-0.0169	0.0029
245	0.0003	-0.0002	0.4145	-0.2570	0.0088	-0.0055	0.0180	-0.0112	0.0018
250	0.0000	0.0000	0.3423	-0.2123	0.0066	-0.0041	0.0687	-0.0426	0.0101
255	0.0001	-0.0001	0.3179	-0.1971	0.0000	0.0000	0.0374	-0.0232	0.0102
286	0.0000	0.0000	0.2440	-0.1050	0.0070	-0.0030	0.1719	-0.0739	0.0230
291	0.0003	-0.0001	0.0830	-0.0357	0.0020	-0.0009	1.7790	-0.7653	0.0056
296	0.0000	0.0000	0.1414	-0.0608	0.0013	-0.0006	0.6841	-0.2943	0.0042
271	0.0003	-0.0001	0.3363	-0.1450	0.0032	-0.0014	4.2450	-1.8297	0.0158
276	0.0000	0.0000	0.1364	-0.0588	0.0038	-0.0016	2.1680	-0.9345	0.0096
281	0.0002	-0.0001	0.0927	-0.0400	0.0043	-0.0019	0.5399	-0.2327	0.0117

#	Mo2020	Mo2020	Na5889	Na5889	P_1774	P_1774	S_1820	S_1820	Sr4215
	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
287	0.0001	0.0000	0.1437	-0.0560	0.0008	-0.0003	0.0314	-0.0122	0.0113
292	0.0001	0.0000	0.0824	-0.0321	0.0012	-0.0005	0.6344	-0.2473	0.0041
297	0.0000	0.0000	0.2435	-0.0949	0.0016	-0.0006	0.0524	-0.0204	0.0183
272	0.0001	0.0000	0.0737	-0.0288	0.0032	-0.0012	0.0502	-0.0196	0.0084
277	0.0002	-0.0001	0.5864	-0.2288	0.0045	-0.0018	1.1290	-0.4405	0.0723
282	0.0004	-0.0002	0.1812	-0.0707	0.0024	-0.0009	0.1548	-0.0604	0.0095
288	0.0000	0.0000	0.5449	-0.1727	0.0000	0.0000	0.0654	-0.0207	0.0324
293	0.0004	-0.0001	0.1109	-0.0351	0.0027	-0.0009	0.0701	-0.0222	0.0085
298	0.0000	0.0000	0.3892	-0.1234	0.0079	-0.0025	0.0518	-0.0164	0.0215
273	0.0000	0.0000	0.5507	-0.1743	0.0032	-0.0010	0.0379	-0.0120	0.0352
278	0.0000	0.0000	0.6739	-0.2133	0.0050	-0.0016	0.0755	-0.0239	0.0661
283	0.0000	0.0000	0.3515	-0.1112	0.0022	-0.0007	0.0479	-0.0152	0.0667
289	0.0000	0.0000	0.4805	-0.1284	0.0019	-0.0005	0.0272	-0.0073	0.0088
294	0.0004	-0.0001	0.4484	-0.1198	0.0121	-0.0032	0.0417	-0.0111	0.0114
299	0.0001	0.0000	0.9811	-0.2621	0.0135	-0.0036	0.0821	-0.0219	0.0170
274	0.0000	0.0000	0.5212	-0.1391	0.0048	-0.0013	0.0355	-0.0095	0.0100
279	0.0002	-0.0001	1.7020	-0.4541	0.0055	-0.0015	0.0516	-0.0138	0.0225
284	0.0006	-0.0002	0.4532	-0.1209	0.0073	-0.0019	0.0510	-0.0136	0.0218
290	0.0000	0.0000	0.4040	-0.1327	0.0000	0.0000	0.0287	-0.0094	0.0034
295	0.0005	-0.0002	0.3359	-0.1103	0.0231	-0.0076	0.1123	-0.0369	0.0308
300	0.0002	-0.0001	0.4981	-0.1636	0.0039	-0.0013	0.0356	-0.0117	0.0048
275	0.0003	-0.0001	0.4633	-0.1520	0.0023	-0.0008	0.0558	-0.0183	0.0037
280	0.0000	0.0000	0.6386	-0.2095	0.0062	-0.0020	0.0575	-0.0189	0.0060
285	0.0000	0.0000	0.3033	-0.0995	0.0037	-0.0012	0.0383	-0.0126	0.0056
316	0.0002	-0.0001	0.2221	-0.1189	0.0004	-0.0002	0.2453	-0.1313	0.0037
321	0.0001	-0.0001	0.0928	-0.0497	0.0032	-0.0017	1.5370	-0.8230	0.0047
326	0.0001	-0.0001	0.0736	-0.0394	0.0036	-0.0019	0.8723	-0.4671	0.0021
301	0.0001	-0.0001	0.6091	-0.3266	0.0070	-0.0038	5.1570	-2.7656	0.0185
306	0.0000	0.0000	0.1806	-0.0969	0.0069	-0.0037	1.7660	-0.9471	0.0098
311	0.0000	0.0000	0.1069	-0.0573	0.0046	-0.0025	0.5052	-0.2709	0.0050
317	0.0000	0.0000	0.1066	-0.0586	0.0043	-0.0024	0.0300	-0.0165	0.0077
322	0.0004	-0.0002	0.0803	-0.0441	0.0057	-0.0031	0.8028	-0.4410	0.0027
327	0.0000	0.0000	0.1831	-0.1006	0.0060	-0.0033	0.0328	-0.0180	0.0128
302	0.0001	-0.0001	0.0302	-0.0164	0.0067	-0.0036	0.0304	-0.0165	0.0051
307	0.0001	-0.0001	0.3750	-0.2040	0.0079	-0.0043	1.2380	-0.6735	0.0516
312	0.0005	-0.0003	0.1380	-0.0751	0.0080	-0.0044	0.0633	-0.0344	0.0078
318	0.0002	-0.0001	0.4975	-0.2685	0.0055	-0.0030	0.0568	-0.0307	0.0320
323	0.0000	0.0000	0.1091	-0.0589	0.0064	-0.0035	0.0430	-0.0232	0.0160
328	0.0003	-0.0002	0.3345	-0.1805	0.0091	-0.0049	0.0386	-0.0208	0.0169
303	0.0000	0.0000	0.4227	-0.2263	0.0023	-0.0012	0.0290	-0.0155	0.0355
308	0.0000	0.0000	0.7021	-0.3759	0.0083	-0.0044	0.0497	-0.0266	0.0633
313	0.0002	-0.0001	0.3039	-0.1627	0.0051	-0.0027	0.0382	-0.0205	0.0633
319	0.0000	0.0000	0.5299	-0.2008	0.0036	-0.0014	0.0213	-0.0081	0.0090
324	0.0003	-0.0001	0.4265	-0.1616	0.0073	-0.0028	0.0305	-0.0116	0.0116
329	0.0004	-0.0002	1.1230	-0.4255	0.0162	-0.0061	0.0776	-0.0294	0.0136
304	0.0001	0.0000	0.4721	-0.1787	0.0071	-0.0027	0.0242	-0.0092	0.0051

#	Mo2020	Mo2020	Na5889	Na5889	P_1774	P_1774	S_1820	S_1820	Sr4215
	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
309	0.0003	-0.0001	1.5900	-0.6018	0.0105	-0.0040	0.0555	-0.0210	0.0226
314	0.0002	-0.0001	0.5214	-0.1973	0.0088	-0.0033	0.0455	-0.0172	0.0067
320	0.0000	0.0000	0.4623	-0.1371	0.0059	-0.0017	0.0185	-0.0055	0.0015
325	0.0001	0.0000	0.2882	-0.0855	0.0081	-0.0024	0.0706	-0.0209	0.0045
330	0.0002	-0.0001	0.4729	-0.1402	0.0052	-0.0015	0.0262	-0.0078	0.0038
305	0.0000	0.0000	0.4157	-0.1229	0.0072	-0.0021	0.0392	-0.0116	0.0017
310	0.0002	-0.0001	0.5905	-0.1746	0.0129	-0.0038	0.0605	-0.0179	0.0056
315	0.0007	-0.0002	0.2798	-0.0828	0.0056	-0.0017	0.0221	-0.0065	0.0034
346	0.0000	0.0000	0.2392	-0.0737	0.0028	-0.0009	0.1435	-0.0442	0.0045
351	0.0000	0.0000	0.1391	-0.0428	0.0000	0.0000	1.2180	-0.3751	0.0065
356	0.0000	0.0000	0.1391	-0.0428	0.0032	-0.0010	0.7299	-0.2248	0.0034
331	0.0003	-0.0001	0.5243	-0.1620	0.0046	-0.0014	2.3100	-0.7138	0.0137
336	0.0000	0.0000	0.4010	-0.1239	0.0032	-0.0010	1.0510	-0.3248	0.0131
341	0.0000	0.0000	0.3312	-0.1023	0.0028	-0.0009	0.4597	-0.1421	0.0088
347	0.0004	-0.0001	0.1645	-0.0473	0.0027	-0.0008	0.0000	0.0000	0.0064
352	0.0000	0.0000	0.1215	-0.0349	0.0013	-0.0004	0.6714	-0.1929	0.0042
357	0.0000	0.0000	0.2224	-0.0639	0.0045	-0.0013	0.0000	0.0000	0.0113
332	0.0002	-0.0001	0.1042	-0.0294	0.0027	-0.0008	0.0000	0.0000	0.0055
337	0.0000	0.0000	0.3429	-0.0967	0.0044	-0.0012	1.2550	-0.3540	0.0418
342	0.0000	0.0000	0.2911	-0.0821	0.0078	-0.0022	0.0158	-0.0045	0.0091
348	0.0000	0.0000	0.4994	-0.1274	0.0051	-0.0013	0.0000	0.0000	0.0331
353	0.0000	0.0000	0.1195	-0.0305	0.0019	-0.0005	0.0000	0.0000	0.0120
358	0.0000	0.0000	0.3128	-0.0798	0.0062	-0.0016	0.0000	0.0000	0.0187
333	0.0000	0.0000	0.3922	-0.0981	0.0031	-0.0008	0.0000	0.0000	0.0386
338	0.0000	0.0000	1.0880	-0.2722	0.0066	-0.0017	0.0000	0.0000	0.0715
343	0.0004	-0.0001	0.2852	-0.0714	0.0050	-0.0013	0.0000	0.0000	0.0611
349	0.0004	-0.0001	0.7103	-0.1772	0.0265	-0.0066	0.2569	-0.0641	0.0104
354	0.0000	0.0000	0.4297	-0.1072	0.0047	-0.0012	0.0000	0.0000	0.0147
359	0.0000	0.0000	1.1780	-0.2939	0.0041	-0.0010	0.0000	0.0000	0.0142
334	0.0000	0.0000	0.5615	-0.1359	0.0025	-0.0006	0.0000	0.0000	0.0061
339	0.0003	-0.0001	1.6870	-0.4084	0.0036	-0.0009	0.0000	0.0000	0.0241
344	0.0000	0.0000	0.6584	-0.1594	0.0065	-0.0016	0.0000	0.0000	0.0084
350	0.0002	-0.0001	0.4607	-0.1537	0.0094	-0.0031	0.0039	-0.0013	0.0030
355	0.0000	0.0000	0.3848	-0.1284	0.0037	-0.0012	0.0000	0.0000	0.0048
360	0.0000	0.0000	0.6126	-0.2044	0.0036	-0.0012	0.0000	0.0000	0.0051
335	0.0000	0.0000	0.4672	-0.1520	0.0031	-0.0010	0.0000	0.0000	0.0032
340	0.0000	0.0000	0.8031	-0.2613	0.0031	-0.0010	0.0000	0.0000	0.0062
345	0.0000	0.0000	0.3383	-0.1101	0.0016	-0.0005	0.0000	0.0000	0.0050
376	0.0000	0.0000	0.2308	-0.2088	0.0037	-0.0033	0.2549	-0.2306	0.0045
381	0.0000	0.0000	0.0603	-0.0546	0.0027	-0.0024	1.1910	-1.0776	0.0050
361	0.0000	0.0000	1.1730	-1.0447	0.0053	-0.0047	3.2830	-2.9239	0.0243
366	0.0000	0.0000	0.3790	-0.3375	0.0019	-0.0017	1.3840	-1.2326	0.0157
377	0.0000	0.0000	0.1635	-0.1363	0.0027	-0.0023	0.0711	-0.0593	0.0051
382	0.0000	0.0000	0.0640	-0.0534	0.0035	-0.0029	0.7242	-0.6039	0.0033

#	Mo2020	Mo2020	Na5889	Na5889	P_1774	P_1774	S_1820	S_1820	Sr4215
	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
362	0.0000	0.0000	0.0594	-0.0493	0.0035	-0.0029	0.0517	-0.0430	0.0032
367	0.0000	0.0000	0.1799	-0.1495	0.0046	-0.0038	1.5840	-1.3160	0.0212
378	0.0000	0.0000	0.3850	-0.2768	0.0047	-0.0034	0.0648	-0.0466	0.0301
383	0.0000	0.0000	0.0755	-0.0543	0.0252	-0.0181	0.0742	-0.0533	0.0088
363	0.0000	0.0000	0.2307	-0.1652	0.0016	-0.0011	0.0400	-0.0286	0.0276
368	0.0000	0.0000	0.9994	-0.7158	0.0055	-0.0039	0.0563	-0.0403	0.0705
379	0.0000	0.0000	0.5090	-0.2768	0.0037	-0.0020	0.0612	-0.0333	0.0088
384	0.0000	0.0000	0.2202	-0.1197	0.0024	-0.0013	0.0371	-0.0202	0.0104
364	0.0000	0.0000	0.3863	-0.2110	0.0041	-0.0022	0.0392	-0.0214	0.0051
369	0.0000	0.0000	1.3230	-0.7225	0.0060	-0.0033	0.0603	-0.0329	0.0194
380	0.0000	0.0000	0.4088	-0.1635	0.0050	-0.0020	0.0511	-0.0204	0.0023
385	0.0000	0.0000	0.3325	-0.1330	0.0048	-0.0019	0.0497	-0.0199	0.0045
365	0.0018	-0.0007	0.4764	-0.1911	0.0062	-0.0025	0.0479	-0.0192	0.0019
370	0.0000	0.0000	0.6039	-0.2423	0.0081	-0.0032	0.0659	-0.0264	0.0042
406	0.0000	0.0000	0.3068	-0.0161	0.0060	-0.0003	0.2958	-0.0155	0.0044
411	0.0000	0.0000	0.1187	-0.0062	0.0007	0.0000	1.2400	-0.0651	0.0050
416	0.0000	0.0000	0.1891	-0.0099	0.0013	-0.0001	0.7244	-0.0381	0.0025
391	0.0000	0.0000	1.1190	-0.0556	0.0000	0.0000	3.0290	-0.1504	0.0204
396	0.0000	0.0000	0.5181	-0.0257	0.0000	0.0000	1.7220	-0.0855	0.0162
401	0.0000	0.0000	0.5069	-0.0252	0.0024	-0.0001	0.4402	-0.0219	0.0078
407	0.0000	0.0000	0.2106	-0.0238	0.0039	-0.0004	0.0588	-0.0066	0.0053
412	0.0000	0.0000	0.1355	-0.0153	0.0068	-0.0008	0.7122	-0.0804	0.0040
417	0.0000	0.0000	0.2265	-0.0256	0.0077	-0.0009	0.0584	-0.0066	0.0055
392	0.0000	0.0000	0.1076	-0.0083	0.0030	-0.0002	0.0329	-0.0025	0.0040
397	0.0000	0.0000	0.1828	-0.0141	0.0008	-0.0001	1.5600	-0.1200	0.0136
402	0.0000	0.0000	0.4646	-0.0357	0.0038	-0.0003	0.0840	-0.0065	0.0087
408	0.0000	0.0000	0.3776	-0.0897	0.0012	-0.0003	0.0396	-0.0094	0.0321
413	0.0000	0.0000	0.1075	-0.0255	0.0025	-0.0006	0.0553	-0.0131	0.0058
418	0.0000	0.0000	0.2832	-0.0673	0.0425	-0.0101	0.0502	-0.0119	0.0129
393	0.0000	0.0000	0.2477	-0.0504	0.0000	0.0000	0.0204	-0.0042	0.0237
398	0.0000	0.0000	0.8781	-0.1788	0.0008	-0.0002	0.0397	-0.0081	0.0591
403	0.0000	0.0000	0.3117	-0.0635	0.0037	-0.0008	0.0382	-0.0078	0.0449
409	0.0000	0.0000	0.6479	-0.2765	0.0013	-0.0006	0.0192	-0.0082	0.0086
414	0.0003	-0.0001	0.2601	-0.1110	0.0023	-0.0010	0.0304	-0.0130	0.0097
419	0.0000	0.0000	0.8517	-0.3635	0.0070	-0.0030	0.0482	-0.0206	0.0167
394	0.0000	0.0000	0.5557	-0.2301	0.0020	-0.0008	0.0215	-0.0089	0.0054
399	0.0000	0.0000	1.4050	-0.5817	0.0064	-0.0026	0.0839	-0.0347	0.0200
404	0.0000	0.0000	0.7685	-0.3182	0.0037	-0.0015	0.0300	-0.0124	0.0067
410	0.0000	0.0000	0.4448	-0.2518	0.0024	-0.0014	0.0246	-0.0139	0.0021

#	Mo2020	Mo2020	Na5889	Na5889	P_1774	P_1774	S_1820	S_1820	Sr4215
	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
415	0.0000	0.0000	0.3428	-0.1941	0.0026	-0.0015	0.0427	-0.0242	0.0040
420	0.0000	0.0000	0.5010	-0.2836	0.0023	-0.0013	0.0229	-0.0130	0.0040
395	0.0000	0.0000	0.4678	-0.2598	0.0021	-0.0012	0.0181	-0.0101	0.0020
400	0.0000	0.0000	0.7462	-0.4144	0.0020	-0.0011	0.0341	-0.0189	0.0046
405	0.0000	0.0000	0.3387	-0.1881	0.0016	-0.0009	0.0300	-0.0167	0.0048
436	0.0000	0.0000	0.2867	-0.0144	0.0000	0.0000	0.2384	-0.0120	0.0046
441	0.0000	0.0000	0.0800	-0.0040	0.0030	-0.0002	1.2620	-0.0635	0.0044
446	0.0000	0.0000	0.1693	-0.0085	0.0051	-0.0003	0.8322	-0.0418	0.0022
421	0.0000	0.0000	1.4650	-0.0737	0.0046	-0.0002	4.0790	-0.2053	0.0286
426	0.0000	0.0000	0.6809	-0.0343	0.0005	0.0000	0.9721	-0.0489	0.0259
431	0.0000	0.0000	0.3420	-0.0172	0.0000	0.0000	0.4287	-0.0216	0.0081
437	0.0000	0.0000	0.1214	-0.0072	0.0011	-0.0001	0.0785	-0.0046	0.0037
442	0.0000	0.0000	0.0993	-0.0059	0.0000	0.0000	0.7294	-0.0432	0.0040
447	0.0025	-0.0002	0.7438	-0.0441	0.0906	-0.0054	0.2685	-0.0159	0.0239
422	0.0000	0.0000	0.0705	-0.0041	0.0052	-0.0003	0.0773	-0.0045	0.0044
427	0.0000	0.0000	0.1616	-0.0094	0.0000	0.0000	1.5230	-0.0888	0.0136
432	0.0000	0.0000	0.4751	-0.0277	0.0060	-0.0003	0.0835	-0.0049	0.0104
438	0.0000	0.0000	0.2901	-0.0209	0.0046	-0.0003	0.0616	-0.0044	0.0346
443	0.0000	0.0000	0.0565	-0.0041	0.0040	-0.0003	0.0983	-0.0071	0.0079
448	0.0000	0.0000	0.1952	-0.0141	0.0100	-0.0007	0.0492	-0.0035	0.0136
423	0.0000	0.0000	0.1996	-0.0143	0.0014	-0.0001	0.0512	-0.0037	0.0227
428	0.0000	0.0000	0.8179	-0.0586	0.0012	-0.0001	0.0895	-0.0064	0.0637
433	0.0000	0.0000	0.1638	-0.0117	0.0012	-0.0001	0.0572	-0.0041	0.0412
439	0.0000	0.0000	0.5107	-0.0560	0.0027	-0.0003	0.0460	-0.0050	0.0083
444	0.0000	0.0000	0.2256	-0.0247	0.0000	0.0000	0.0556	-0.0061	0.0113
449	0.0000	0.0000	0.6653	-0.0729	0.0035	-0.0004	0.0645	-0.0071	0.0233
424	0.0000	0.0000	0.5836	-0.0626	0.0011	-0.0001	0.0523	-0.0056	0.0057
429	0.0000	0.0000	1.2020	-0.1290	0.0011	-0.0001	0.0819	-0.0088	0.0213
434	0.0000	0.0000	0.5988	-0.0642	0.0017	-0.0002	0.0642	-0.0069	0.0074
440	0.0000	0.0000	0.3908	-0.0781	0.0008	-0.0002	0.0443	-0.0088	0.0027
445	0.0000	0.0000	0.3827	-0.0764	0.0028	-0.0006	0.0573	-0.0114	0.0050
450	0.0000	0.0000	0.5040	-0.1007	0.0013	-0.0003	0.0522	-0.0104	0.0037
425	0.0000	0.0000	0.4265	-0.0833	0.0118	-0.0023	0.0553	-0.0108	0.0025
430	0.0000	0.0000	0.6843	-0.1336	0.0027	-0.0005	0.0671	-0.0131	0.0056
435	0.0000	0.0000	0.3093	-0.0604	0.0000	0.0000	0.0463	-0.0090	0.0048
466	0.0000	0.0000	0.3775	-0.0382	0.0016	-0.0002	0.2070	-0.0209	0.0069
471	0.0000	0.0000	0.0735	-0.0074	0.0015	-0.0002	1.1480	-0.1162	0.0048
476	0.0000	0.0000	0.1479	-0.0150	0.0029	-0.0003	0.6312	-0.0639	0.0030
451	0.0000	0.0000	1.0780	-0.1136	0.0000	0.0000	2.6170	-0.2758	0.0278
456	0.0000	0.0000	0.7367	-0.0776	0.0002	0.0000	0.7557	-0.0796	0.0299
461	0.0000	0.0000	0.3617	-0.0381	0.0037	-0.0004	0.3013	-0.0318	0.0100
467	0.0000	0.0000	0.1473	-0.0127	0.0023	-0.0002	0.0704	-0.0061	0.0048
472	0.0000	0.0000	0.1218	-0.0105	0.0032	-0.0003	0.6540	-0.0565	0.0055
477	0.0012	-0.0001	0.7358	-0.0636	0.0399	-0.0034	0.2260	-0.0195	0.0234
452	0.0000	0.0000	0.0849	-0.0072	0.0021	-0.0002	0.0528	-0.0045	0.0051
457	0.0000	0.0000	0.1580	-0.0135	0.0002	0.0000	1.5370	-0.1310	0.0132

#	Mo2020	Mo2020	Na5889	Na5889	P_1774	P_1774	S_1820	S_1820	Sr4215
	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
462	0.0000	0.0000	0.6537	-0.0557	0.0047	-0.0004	0.1245	-0.0106	0.0130
468	0.0000	0.0000	0.2928	-0.0206	0.0022	-0.0002	0.0560	-0.0039	0.0323
473	0.0000	0.0000	0.0570	-0.0040	0.0020	-0.0001	0.0765	-0.0054	0.0090
478	0.0000	0.0000	0.1355	-0.0095	0.0052	-0.0004	0.0540	-0.0038	0.0122
453	0.0000	0.0000	0.3130	-0.0220	0.0001	0.0000	0.0447	-0.0031	0.0252
458	0.0000	0.0000	0.8918	-0.0626	0.0057	-0.0004	0.0765	-0.0054	0.0642
463	0.0000	0.0000	0.1719	-0.0121	0.0030	-0.0002	0.0554	-0.0039	0.0389
469	0.0000	0.0000	0.4868	-0.0352	0.0009	-0.0001	0.0370	-0.0027	0.0077
474	0.0000	0.0000	0.2244	-0.0162	0.0022	-0.0002	0.0488	-0.0035	0.0118
479	0.0000	0.0000	0.4457	-0.0322	0.0085	-0.0006	0.1040	-0.0075	0.0255
454	0.0000	0.0000	0.6244	-0.0441	0.0012	-0.0001	0.0477	-0.0034	0.0061
459	0.0000	0.0000	1.1570	-0.0818	0.0058	-0.0004	0.0780	-0.0055	0.0217
464	0.0000	0.0000	0.6981	-0.0493	0.0029	-0.0002	0.0520	-0.0037	0.0071
470	0.0000	0.0000	0.3862	-0.0436	0.0032	-0.0004	0.0402	-0.0045	0.0061
475	0.0000	0.0000	0.3428	-0.0387	0.0054	-0.0006	0.0650	-0.0073	0.0043
480	0.0000	0.0000	0.4819	-0.0544	0.0041	-0.0005	0.0763	-0.0086	0.0053
455	0.0000	0.0000	0.4119	-0.0455	0.0000	0.0000	0.0428	-0.0047	0.0026
460	0.0000	0.0000	0.8036	-0.0887	0.0053	-0.0006	0.0784	-0.0087	0.0061
465	0.0000	0.0000	0.3251	-0.0359	0.0004	0.0000	0.0510	-0.0056	0.0050
496	0.0000	0.0000	2.8300	0.1328	0.0055	0.0003	0.0783	0.0037	0.0238
501	0.0000	0.0000	0.1686	0.0079	0.0057	0.0003	0.8970	0.0421	0.0053
506	0.0000	0.0000	9.6400	0.4523	0.0158	0.0007	0.4562	0.0214	0.0097
481	0.0000	0.0000	0.7827	0.0363	0.0030	0.0001	1.6140	0.0749	0.0240
486	0.0000	0.0000	0.7417	0.0344	0.0039	0.0002	0.7338	0.0340	0.0307
491	0.0000	0.0000	0.6750	0.0313	0.0060	0.0003	0.0889	0.0041	0.0200
497	0.0000	0.0000	0.1863	0.0001	0.0053	0.0000	0.0000	0.0000	0.0032
502	0.0000	0.0000	0.1995	0.0001	0.0041	0.0000	0.4606	0.0003	0.0046
507	0.0045	0.0000	1.4440	0.0009	0.0438	0.0000	0.1568	0.0001	0.0126
482	0.0000	0.0000	0.1273	0.0000	0.0025	0.0000	0.0000	0.0000	0.0032
487	0.0000	0.0000	0.2035	0.0000	0.0015	0.0000	1.2540	0.0003	0.0118
492	0.0000	0.0000	0.6793	0.0001	0.0082	0.0000	0.0401	0.0000	0.0137
498	0.0000	0.0000	0.3013	-0.0131	0.0033	-0.0001	0.0000	0.0000	0.0297
503	0.0000	0.0000	0.1040	-0.0045	0.0008	0.0000	0.0000	0.0000	0.0069
508	0.0000	0.0000	0.1860	-0.0081	0.0033	-0.0001	0.0000	0.0000	0.0113
483	0.0000	0.0000	0.2637	-0.0115	0.0009	0.0000	0.0000	0.0000	0.0214
488	0.0000	0.0000	0.8670	-0.0377	0.0072	-0.0003	0.0000	0.0000	0.0604
493	0.0000	0.0000	0.1926	-0.0084	0.0033	-0.0001	0.0000	0.0000	0.0373
499	0.0000	0.0000	0.5603	-0.0463	0.0005	0.0000	0.0000	0.0000	0.0065
504	0.0000	0.0000	0.2801	-0.0231	0.0065	-0.0005	0.0000	0.0000	0.0098
509	0.0000	0.0000	0.4314	-0.0356	0.0047	-0.0004	0.0000	0.0000	0.0233
484	0.0000	0.0000	0.6506	-0.0536	0.0067	-0.0006	0.0000	0.0000	0.0040
489	0.0000	0.0000	1.1680	-0.0963	0.0045	-0.0004	0.0000	0.0000	0.0179
494	0.0000	0.0000	0.7058	-0.0582	0.0043	-0.0004	0.0000	0.0000	0.0047
500	0.0000	0.0000	0.4584	-0.0488	0.0038	-0.0004	0.0000	0.0000	0.0004
505	0.0000	0.0000	0.3766	-0.0401	0.0102	-0.0011	0.0000	0.0000	0.0020
510	0.0000	0.0000	0.6140	-0.0654	0.0013	-0.0001	0.0000	0.0000	0.0015

#	Mo2020	Mo2020	Na5889	Na5889	P_1774	P_1774	S_1820	S_1820	Sr4215
	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
485	0.0000	0.0000	0.4735	-0.0504	0.0030	-0.0003	0.0000	0.0000	0.0007
490	0.0000	0.0000	0.7653	-0.0814	0.0044	-0.0005	0.0000	0.0000	0.0022
495	0.0000	0.0000	0.3842	-0.0409	0.0016	-0.0002	0.0000	0.0000	0.0023
526	0.0000	0.0000	2.9210	-1.5787	0.0021	-0.0011	0.1423	-0.0769	0.0340
531	0.0002	-0.0001	0.1777	-0.0960	0.0005	-0.0003	0.3381	-0.1827	0.0094
536	0.0001	-0.0001	11.4900	-6.2100	0.0009	-0.0005	1.5870	-0.8577	0.0092
511	0.0000	0.0000	1.7820	-0.9594	0.0000	0.0000	2.2530	-1.2130	0.0664
516	0.0000	0.0000	1.8700	-1.0068	0.0000	0.0000	0.6963	-0.3749	0.0547
521	0.0000	0.0000	2.6550	-1.4294	0.0000	0.0000	0.1300	-0.0700	0.0973
527	0.0000	0.0000	0.2891	-0.1427	0.0028	-0.0014	0.0365	-0.0180	0.0060
532	0.0000	0.0000	0.8440	-0.4167	0.0039	-0.0019	0.2420	-0.1195	0.0229
537	0.0000	0.0000	1.9780	-0.9765	0.0355	-0.0175	0.0380	-0.0188	0.0127
512	0.0000	0.0000	0.3208	-0.1588	0.0000	0.0000	0.0077	-0.0038	0.0108
517	0.0000	0.0000	0.3316	-0.1641	0.0000	0.0000	0.8520	-0.4217	0.0127
522	0.0000	0.0000	0.8664	-0.4288	0.0000	0.0000	0.1297	-0.0642	0.0223
528	0.0001	0.0000	0.2733	-0.1141	0.0019	-0.0008	0.0191	-0.0080	0.0263
533	0.0000	0.0000	0.4076	-0.1701	0.0011	-0.0005	0.0110	-0.0046	0.0117
538	0.0000	0.0000	0.2117	-0.0884	0.0007	-0.0003	0.0104	-0.0043	0.0102
513	0.0000	0.0000	0.5148	-0.2156	0.0003	-0.0001	0.0064	-0.0027	0.0193
518	0.0000	0.0000	0.6493	-0.2720	0.0009	-0.0004	0.0157	-0.0066	0.0557
523	0.0002	-0.0001	0.2987	-0.1251	0.0009	-0.0004	0.0049	-0.0021	0.0301
529	0.0000	0.0000	0.4462	-0.1306	0.0009	-0.0003	0.0157	-0.0046	0.0073
534	0.0002	-0.0001	0.3837	-0.1123	0.0010	-0.0003	0.0005	-0.0001	0.0114
539	0.0001	0.0000	0.8564	-0.2506	0.0069	-0.0020	0.0341	-0.0100	0.0142
514	0.0001	0.0000	0.2294	-0.0670	0.0030	-0.0009	0.0062	-0.0018	0.0021
519	0.0000	0.0000	1.1060	-0.3230	0.0002	-0.0001	0.0039	-0.0011	0.0177
524	0.0003	-0.0001	0.6865	-0.2005	0.0021	-0.0006	0.0031	-0.0009	0.0039
530	0.0002	0.0000	0.4220	-0.0654	0.0027	-0.0004	0.0000	0.0000	0.0000
535	0.0003	0.0000	0.6965	-0.1079	0.0171	-0.0026	0.0541	-0.0084	0.0022
540	0.0000	0.0000	0.5682	-0.0880	0.0006	-0.0001	0.0098	-0.0015	0.0017
515	0.0001	0.0000	0.4617	-0.0706	0.0022	-0.0003	0.0000	0.0000	0.0010
520	0.0000	0.0000	0.8119	-0.1242	0.0004	-0.0001	0.0086	-0.0013	0.0026
525	0.0000	0.0000	0.4049	-0.0620	0.0028	-0.0004	0.0057	-0.0009	0.0028
556	0.0000	0.0000	1.5770	-0.5664	0.0463	-0.0166	0.0644	-0.0231	0.0005
561	0.0000	0.0000	0.2156	-0.0774	0.0062	-0.0022	0.1848	-0.0664	0.0126
566	0.0000	0.0000	1.2010	-0.4313	0.0101	-0.0036	0.1139	-0.0409	0.0206
541	0.0000	0.0000	1.0770	-0.3858	0.0053	-0.0019	0.9806	-0.3513	0.0531
546	0.0000	0.0000	1.9670	-0.7046	0.0000	0.0000	0.5004	-0.1792	0.0599
551	0.0000	0.0000	3.6490	-1.3071	0.0164	-0.0059	0.2073	-0.0743	0.1478
557	0.0000	0.0000	1.6610	-0.5227	0.0000	0.0000	0.0320	-0.0101	0.0222
562	0.0000	0.0000	2.3310	-0.7336	0.0020	-0.0006	0.1304	-0.0410	0.0562
567	0.0000	0.0000	0.5857	-0.1843	0.0058	-0.0018	0.0549	-0.0173	0.0074
542	0.0000	0.0000	0.3121	-0.0974	0.0001	0.0000	0.0238	-0.0074	0.0095
547	0.0000	0.0000	0.5320	-0.1661	0.0016	-0.0005	0.6913	-0.2158	0.0140
552	0.0000	0.0000	1.0530	-0.3287	0.0131	-0.0041	0.1084	-0.0338	0.0259
558	0.0000	0.0000	0.3360	-0.0841	0.0050	-0.0013	0.0185	-0.0046	0.0150

#	Mo2020	Mo2020	Na5889	Na5889	P_1774	P_1774	S_1820	S_1820	Sr4215
	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
563	0.0000	0.0000	0.3044	-0.0762	0.0055	-0.0014	0.0287	-0.0072	0.0074
568	0.0000	0.0000	0.5624	-0.1408	0.0058	-0.0015	0.0424	-0.0106	0.0275
543	0.0000	0.0000	0.5810	-0.1448	0.0037	-0.0009	0.0159	-0.0040	0.0185
548	0.0000	0.0000	0.7384	-0.1840	0.0087	-0.0022	0.0344	-0.0086	0.0589
553	0.0000	0.0000	0.7556	-0.1883	0.0188	-0.0047	0.0526	-0.0131	0.0300
559	0.0000	0.0000	1.0840	-0.1907	0.0008	-0.0001	0.0299	-0.0053	0.0116
564	0.0001	0.0000	0.3652	-0.0642	0.0039	-0.0007	0.0159	-0.0028	0.0136
569	0.0000	0.0000	1.2930	-0.2275	0.0186	-0.0033	0.0915	-0.0161	0.0154
544	0.0000	0.0000	1.0460	-0.1805	0.0115	-0.0020	0.0235	-0.0041	0.0047
549	0.0000	0.0000	1.1140	-0.1922	0.0064	-0.0011	0.0227	-0.0039	0.0169
554	0.0000	0.0000	1.2640	-0.2181	0.0252	-0.0043	0.0662	-0.0114	0.0050
560	0.0000	0.0000	1.0590	-0.1775	0.0022	-0.0004	0.0224	-0.0038	0.0033
565	0.0000	0.0000	0.5532	-0.0927	0.0024	-0.0004	0.0128	-0.0021	0.0050
570	0.0000	0.0000	1.2670	-0.2124	0.0171	-0.0029	0.0647	-0.0108	0.0007
545	0.0000	0.0000	0.5600	-0.0916	0.0064	-0.0010	0.0129	-0.0021	0.0003
550	0.0000	0.0000	0.8090	-0.1324	0.0107	-0.0018	0.0218	-0.0036	0.0033
555	0.0000	0.0000	0.8468	-0.1386	0.0288	-0.0047	0.0761	-0.0125	0.0047
586	0.0000	0.0000	0.7546	-1.3325	0.0000	0.0000	0.1290	-0.2278	0.0192
591	0.0000	0.0000	0.1629	-0.2877	0.0025	-0.0044	0.2197	-0.3880	0.0088
596	0.0000	0.0000	1.3510	-2.3856	0.0337	-0.0595	6.4910	-11.4621	0.0033
571	0.0000	0.0000	0.8194	-1.4472	0.0000	0.0000	2.5330	-4.4737	0.0442
576	0.0000	0.0000	1.0980	-1.9392	0.0000	0.0000	0.8107	-1.4318	0.0436
581	0.0000	0.0000	0.6800	-1.2010	0.0000	0.0000	0.0796	-0.1406	0.0433
587	0.0000	0.0000	0.2718	-0.4830	0.0031	-0.0055	0.0388	-0.0689	0.0046
592	0.0000	0.0000	1.7060	-3.0316	0.0000	0.0000	0.1059	-0.1882	0.0527
597	0.0000	0.0000	0.9525	-1.6926	0.0071	-0.0126	0.0313	-0.0556	0.0069
572	0.0000	0.0000	0.7945	-1.4085	0.0000	0.0000	0.2169	-0.3845	0.0311
577	0.0000	0.0000	0.4171	-0.7394	0.0098	-0.0174	0.5192	-0.9205	0.0173
582	0.0001	-0.0002	0.7686	-1.3626	0.0000	0.0000	0.1393	-0.2470	0.0271
588	0.0000	0.0000	0.3192	-0.5658	0.0015	-0.0027	0.0083	-0.0147	0.0182
593	0.0000	0.0000	0.3339	-0.5919	0.0001	-0.0002	0.0367	-0.0651	0.0081
598	0.0000	0.0000	0.2417	-0.4285	0.0067	-0.0119	0.0174	-0.0308	0.0082
573	0.0000	0.0000	0.3708	-0.6561	0.0000	0.0000	0.0108	-0.0191	0.0142
578	0.0000	0.0000	0.9992	-1.7680	0.0000	0.0000	0.0280	-0.0495	0.0459
583	0.0001	-0.0002	0.4353	-0.7702	0.0121	-0.0214	0.0145	-0.0257	0.0237
589	0.0000	0.0000	0.2055	-0.3542	0.0008	-0.0014	0.0000	0.0000	0.0056
594	0.0000	0.0000	0.1705	-0.2939	0.0000	0.0000	0.0000	0.0000	0.0049
599	0.0000	0.0000	1.1700	-2.0167	0.0085	-0.0147	0.0341	-0.0588	0.0093
574	0.0000	0.0000	0.3542	-0.6086	0.0000	0.0000	0.0000	0.0000	0.0095
579	0.0000	0.0000	1.1060	-1.9003	0.0014	-0.0024	0.0137	-0.0235	0.0140
584	0.0000	0.0000	0.3124	-0.5367	0.0014	-0.0024	0.0000	0.0000	0.0089
590	0.0000	0.0000	0.4726	-0.7442	0.0053	-0.0083	0.0038	-0.0060	0.0003
595	0.0000	0.0000	0.5585	-0.8795	0.0837	-0.1318	0.1328	-0.2091	0.0015
600	0.0000	0.0000	0.5829	-0.9179	0.0076	-0.0120	0.0295	-0.0465	0.0018
575	0.0000	0.0000	0.5086	-0.7941	0.0000	0.0000	0.0000	0.0000	0.0004

#	Mo2020	Mo2020	Na5889	Na5889	P_1774	P_1774	S_1820	S_1820	Sr4215
	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
580	0.0000	0.0000	0.8046	-1.2563	0.0000	0.0000	0.0211	-0.0329	0.0037
585	0.0000	0.0000	0.4089	-0.6384	0.0000	0.0000	0.0096	-0.0150	0.0025
616	0.0000	0.0000	0.4495	-0.0397	0.0043	-0.0004	0.1112	-0.0098	0.0153
621	0.0000	0.0000	0.1794	-0.0158	0.0034	-0.0003	0.4594	-0.0405	0.0073
626	0.0000	0.0000	0.7287	-0.0643	0.0088	-0.0008	5.4340	-0.4795	0.0023
601	0.0000	0.0000	0.3636	-0.0328	0.0107	-0.0010	1.5290	-0.1379	0.0250
606	0.0000	0.0000	0.6019	-0.0543	0.0148	-0.0013	0.9020	-0.0814	0.0159
611	0.0000	0.0000	0.2447	-0.0221	0.0035	-0.0003	0.0938	-0.0085	0.0192
617	0.0000	0.0000	0.7525	-0.0892	0.0065	-0.0008	0.0366	-0.0043	0.0092
622	0.0000	0.0000	0.8918	-0.1057	0.0103	-0.0012	0.1259	-0.0149	0.0352
627	0.0000	0.0000	0.9780	-0.1159	0.0079	-0.0009	0.0620	-0.0073	0.0056
602	0.0000	0.0000	0.5243	-0.0628	0.0111	-0.0013	0.0499	-0.0060	0.0148
607	0.0000	0.0000	0.4549	-0.0545	0.0119	-0.0014	0.5115	-0.0613	0.0169
612	0.0000	0.0000	0.5194	-0.0623	0.0019	-0.0002	0.1283	-0.0154	0.0199
618	0.0000	0.0000	0.3183	-0.0578	0.0025	-0.0005	0.0109	-0.0020	0.0180
623	0.0000	0.0000	0.3141	-0.0570	0.0084	-0.0015	0.0357	-0.0065	0.0089
628	0.0000	0.0000	0.2811	-0.0510	0.0130	-0.0024	0.0239	-0.0043	0.0073
603	0.0000	0.0000	0.7492	-0.1363	0.0203	-0.0037	0.0384	-0.0070	0.0181
608	0.0000	0.0000	1.0590	-0.1927	0.0139	-0.0025	0.0449	-0.0082	0.0403
613	0.0001	0.0000	0.4320	-0.0786	0.0023	-0.0004	0.0078	-0.0014	0.0206
619	0.0000	0.0000	0.4053	-0.1207	0.0038	-0.0011	0.0176	-0.0052	0.0110
624	0.0000	0.0000	0.3430	-0.1022	0.0075	-0.0022	0.0413	-0.0123	0.0097
629	0.0000	0.0000	0.8739	-0.2603	0.0073	-0.0022	0.0233	-0.0069	0.0149
604	0.0000	0.0000	0.9209	-0.2749	0.0103	-0.0031	0.0175	-0.0052	0.0056
609	0.0000	0.0000	1.0910	-0.3256	0.0189	-0.0056	0.0400	-0.0119	0.0177
614	0.0000	0.0000	0.8825	-0.2634	0.0071	-0.0021	0.0070	-0.0021	0.0041
620	0.0000	0.0000	0.5374	-0.2400	0.0050	-0.0022	0.0167	-0.0075	0.0005
625	0.0000	0.0000	0.5150	-0.2300	0.0111	-0.0050	0.0301	-0.0134	0.0015
630	0.0000	0.0000	0.7208	-0.3219	0.0138	-0.0062	0.0374	-0.0167	0.0014
605	0.0000	0.0000	0.6202	-0.2776	0.0159	-0.0071	0.0178	-0.0080	0.0230
610	0.0000	0.0000	0.7403	-0.3314	0.0000	0.0000	0.0070	-0.0031	0.0020
615	0.0000	0.0000	0.3947	-0.1767	0.0021	-0.0009	0.0023	-0.0010	0.0016
646	0.0000	0.0000	0.3921	-0.3048	0.0000	0.0000	0.1120	-0.0871	0.0171
651	0.0000	0.0000	0.1896	-0.1474	0.0000	0.0000	0.4165	-0.3237	0.0059
656	0.0000	0.0000	0.4215	-0.3276	0.0000	0.0000	4.9950	-3.8825	0.0013
631	0.0000	0.0000	0.4483	-0.3442	0.0000	0.0000	3.3670	-2.5852	0.0242
636	0.0000	0.0000	0.4734	-0.3635	0.0000	0.0000	0.9227	-0.7084	0.0208
641	0.0000	0.0000	0.3047	-0.2339	0.0000	0.0000	0.0877	-0.0673	0.0174
647	0.0000	0.0000	0.7255	-0.4925	0.0000	0.0000	0.0203	-0.0138	0.0124
652	0.0000	0.0000	0.7286	-0.4946	0.0000	0.0000	0.1566	-0.1063	0.0313
657	0.0000	0.0000	1.1010	-0.7475	0.0000	0.0000	0.0293	-0.0199	0.0066
632	0.0000	0.0000	0.4232	-0.2867	0.0000	0.0000	0.2745	-0.1860	0.0182
637	0.0000	0.0000	0.3444	-0.2333	0.0000	0.0000	0.4755	-0.3222	0.0164
642	0.0000	0.0000	1.0020	-0.6789	0.0000	0.0000	0.0984	-0.0667	0.0345
648	0.0000	0.0000	0.3758	-0.1893	0.0000	0.0000	0.0128	-0.0064	0.0190
653	0.0002	-0.0001	0.3290	-0.1657	0.0000	0.0000	0.0408	-0.0205	0.0094

#	Mo2020	Mo2020	Na5889	Na5889	P_1774	P_1774	S_1820	S_1820	Sr4215
	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
658	0.0000	0.0000	0.2991	-0.1506	0.0000	0.0000	0.0216	-0.0109	0.0061
633	0.0000	0.0000	0.6767	-0.3453	0.0000	0.0000	0.0089	-0.0045	0.0163
638	0.0000	0.0000	1.1410	-0.5822	0.0000	0.0000	0.0142	-0.0072	0.0369
643	0.0000	0.0000	0.5273	-0.2691	0.0000	0.0000	0.0165	-0.0084	0.0182
649	0.0000	0.0000	0.4570	-0.1122	0.0000	0.0000	0.0092	-0.0023	0.0099
654	0.0000	0.0000	0.2917	-0.0716	0.0000	0.0000	0.0174	-0.0043	0.0118
659	0.0000	0.0000	0.6379	-0.1566	0.0002	0.0000	0.0208	-0.0051	0.0179
634	0.0000	0.0000	0.5880	-0.1457	0.0000	0.0000	0.0006	-0.0001	0.0060
639	0.0000	0.0000	1.0100	-0.2502	0.0144	-0.0036	0.0241	-0.0060	0.0161
644	0.0000	0.0000	0.6129	-0.1518	0.0000	0.0000	0.0000	0.0000	0.0065
650	0.0000	0.0000	0.5814	-0.1102	0.0008	-0.0002	0.0058	-0.0011	0.0006
655	0.0000	0.0000	0.4851	-0.0920	0.0000	0.0000	0.0196	-0.0037	0.0018
660	0.0001	0.0000	0.6339	-0.1202	0.0000	0.0000	0.0189	-0.0036	0.0026
635	0.0000	0.0000	0.6027	-0.1144	0.0030	-0.0006	0.0053	-0.0010	0.0012
640	0.0002	0.0000	0.9291	-0.1763	0.0000	0.0000	0.0098	-0.0019	0.0022
645	0.0000	0.0000	0.5487	-0.1041	0.0000	0.0000	0.0085	-0.0016	0.0021
676	0.0000	0.0000	0.3908	-0.0979	0.0712	-0.0178	0.1280	-0.0321	0.0218
681	0.0000	0.0000	0.1714	-0.0429	0.0000	0.0000	0.6287	-0.1574	0.0053
686	0.0000	0.0000	0.3473	-0.0870	0.0000	0.0000	4.4200	-1.1067	0.0000
661	0.0000	0.0000	0.2266	-0.0636	0.0000	0.0000	1.9870	-0.5577	0.0127
666	0.0000	0.0000	0.4397	-0.1234	0.0000	0.0000	1.0600	-0.2975	0.0265
671	0.0000	0.0000	0.2209	-0.0620	0.0000	0.0000	0.1389	-0.0390	0.0153
677	0.0000	0.0000	0.6556	-0.1645	0.0026	-0.0007	0.0442	-0.0111	0.0180
682	0.0000	0.0000	0.4050	-0.1016	0.0000	0.0000	0.2555	-0.0641	0.0206
687	0.0000	0.0000	1.2000	-0.3011	0.0056	-0.0014	0.0742	-0.0186	0.0108
662	0.0000	0.0000	0.4240	-0.0896	0.0043	-0.0009	0.0624	-0.0132	0.0205
667	0.0000	0.0000	0.3570	-0.0754	0.0000	0.0000	0.5248	-0.1109	0.0182
672	0.0000	0.0000	0.6020	-0.1272	0.0000	0.0000	0.1064	-0.0225	0.0295
678	0.0000	0.0000	0.4320	-0.1283	0.0003	-0.0001	0.0339	-0.0101	0.0230
683	0.0000	0.0000	0.2542	-0.0755	0.0000	0.0000	0.0825	-0.0245	0.0100
688	0.0000	0.0000	0.2831	-0.0841	0.0000	0.0000	0.0380	-0.0113	0.0073
663	0.0003	-0.0001	0.6472	-0.1592	0.0000	0.0000	0.0283	-0.0070	0.0170
668	0.0000	0.0000	1.1630	-0.2860	0.0000	0.0000	0.0280	-0.0069	0.0376
673	0.0000	0.0000	0.5470	-0.1345	0.0000	0.0000	0.0328	-0.0081	0.0176
679	0.0000	0.0000	0.5012	-0.2531	0.0000	0.0000	0.0323	-0.0163	0.0129
684									
689	0.0000	0.0000	0.8315	-0.4200	0.0004	-0.0002	0.0341	-0.0172	0.0169
664	0.0000	0.0000	0.9633	-0.4291	0.0000	0.0000	0.0343	-0.0153	0.0069
669	0.0000	0.0000	1.0280	-0.4580	0.0000	0.0000	0.0250	-0.0111	0.0162
674	0.0000	0.0000	1.0000	-0.4455	0.0000	0.0000	0.0221	-0.0098	0.0036
680	0.0000	0.0000	0.6549	-0.3502	0.0000	0.0000	0.0249	-0.0133	0.0032
685	0.0000	0.0000	0.5344	-0.2858	0.0000	0.0000	0.0337	-0.0180	0.0011
690	0.0002	-0.0001	0.6224	-0.3329	0.0000	0.0000	0.0314	-0.0168	0.0019
665	0.0001	-0.0001	0.6382	-0.3383	0.0000	0.0000	0.0194	-0.0103	0.0006
670	0.0000	0.0000	1.3010	-0.6897	0.0000	0.0000	0.0675	-0.0358	0.0027
675	0.0000	0.0000	0.5578	-0.2957	0.0000	0.0000	0.0189	-0.0100	0.0029

#	Mo2020	Mo2020	Na5889	Na5889	P_1774	P_1774	S_1820	S_1820	Sr4215
	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
706	0.0000	0.0000	0.3401	-0.0825	0.0289	-0.0070	4.2770	-1.0373	0.0119
711	0.0001	0.0000	0.1831	-0.0444	0.0000	0.0000	0.4177	-0.1013	0.0065
716	0.0003	-0.0001	0.3056	-0.0741	0.0000	0.0000	3.6960	-0.8964	0.0017
691	0.0000	0.0000	0.3616	-0.0874	0.0000	0.0000	0.1290	-0.0312	0.0207
696	0.0001	0.0000	0.3923	-0.0948	0.0569	-0.0138	2.0350	-0.4920	0.0110
701	0.0000	0.0000	0.1450	-0.0351	0.0014	-0.0003	0.1495	-0.0361	0.0139
707	0.0000	0.0000	0.3083	-0.0688	0.0019	-0.0004	0.0255	-0.0057	0.0196
712	0.0047	-0.0010	1.1451	-0.2556	0.0553	-0.0123	0.2308	-0.0515	0.0339
717	0.0000	0.0000	0.8250	-0.1842	0.0120	-0.0027	0.0088	-0.0020	0.0063
692	0.0000	0.0000	0.5968	-0.1136	0.0000	0.0000	0.0459	-0.0087	0.0181
697	0.0000	0.0000	0.3516	-0.0669	0.0000	0.0000	0.5018	-0.0955	0.0211
702	0.0003	-0.0001	0.3566	-0.0679	0.0000	0.0000	0.0838	-0.0159	0.0236
708	0.0000	0.0000	0.5466	-0.1162	0.0041	-0.0009	0.0041	-0.0009	0.0163
713	0.0001	0.0000	0.2844	-0.0604	0.0000	0.0000	0.0374	-0.0079	0.0110
718	0.0000	0.0000	0.2779	-0.0591	0.0000	0.0000	0.0000	0.0000	0.0070
693	0.0000	0.0000	0.3984	-0.0809	0.0000	0.0000	0.0404	-0.0082	0.0192
698	0.0000	0.0000	1.3000	-0.2639	0.0000	0.0000	0.0470	-0.0095	0.0347
703	0.0003	-0.0001	0.4340	-0.0881	0.0000	0.0000	0.0000	0.0000	0.0164
709	0.0003	-0.0001	0.8834	-0.1945	0.0002	0.0000	0.0000	0.0000	0.0065
714	0.0001	0.0000	0.3945	-0.0869	0.0000	0.0000	0.0051	-0.0011	0.0081
719	0.0003	-0.0001	0.7172	-0.1579	0.0000	0.0000	0.0000	0.0000	0.0186
694	0.0000	0.0000	0.4686	-0.1014	0.0000	0.0000	0.0327	-0.0071	0.0128
699	0.0000	0.0000	0.9214	-0.1995	0.0018	-0.0004	0.0050	-0.0011	0.0174
704	0.0000	0.0000	0.8589	-0.1859	0.0000	0.0000	0.0000	0.0000	0.0052
710	0.0004	-0.0001	0.6142	-0.1604	0.0039	-0.0010	0.0092	-0.0024	0.0017
715	0.0001	0.0000	0.5123	-0.1338	0.0000	0.0000	0.0077	-0.0020	0.0026
720	0.0000	0.0000	0.6178	-0.1614	0.0042	-0.0011	0.0000	0.0000	0.0024
695	0.0000	0.0000	0.6014	-0.1538	0.0000	0.0000	0.0312	-0.0080	0.0009
700	0.0001	0.0000	0.8577	-0.2194	0.0000	0.0000	0.0070	-0.0018	0.0033
705	0.0003	-0.0001	0.4795	-0.1227	0.0000	0.0000	0.0009	-0.0002	0.0031
736	0.0005	-0.0002	0.3579	-0.1324	0.0000	0.0000	0.0707	-0.0262	0.0239
741	0.0002	-0.0001	0.2748	-0.1017	0.0000	0.0000	0.1946	-0.0720	0.0085
746	0.0002	-0.0001	0.3593	-0.1329	0.0000	0.0000	2.6180	-0.9685	0.0024
721	0.0001	0.0000	0.3378	-0.1270	0.0000	0.0000	3.5350	-1.3295	0.0105
726	0.0005	-0.0002	0.3578	-0.1346	0.0038	-0.0014	2.3520	-0.8846	0.0099
731	0.0004	-0.0002	0.2578	-0.0970	0.0000	0.0000	0.3433	-0.1291	0.0085
737	0.0004	-0.0002	0.5647	-0.2314	0.0001	0.0000	0.0000	0.0000	0.0190
742	0.0000	0.0000	0.3890	-0.1594	0.0012	-0.0005	0.2098	-0.0860	0.0171
747	0.0016	-0.0007	0.7921	-0.3245	0.0000	0.0000	0.0000	0.0000	0.0066
722	0.0001	0.0000	0.3254	-0.1323	0.0005	-0.0002	0.0149	-0.0061	0.0187
727	0.0001	0.0000	0.3658	-0.1487	0.0000	0.0000	0.4763	-0.1936	0.0199
732	0.0001	0.0000	0.4288	-0.1743	0.0000	0.0000	0.0673	-0.0274	0.0188
738	0.0003	-0.0001	0.4392	-0.1803	0.0000	0.0000	0.0000	0.0000	0.0189
743	0.0000	0.0000	0.3107	-0.1276	0.0000	0.0000	0.0059	-0.0024	0.0107
748	0.0005	-0.0002	0.4057	-0.1666	0.0000	0.0000	0.0000	0.0000	0.0068
723	0.0004	-0.0002	0.6025	-0.2462	0.0016	-0.0007	0.0000	0.0000	0.0173

#	Mo2020	Mo2020	Na5889	Na5889	P_1774	P_1774	S_1820	S_1820	Sr4215
	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
728	0.0005	-0.0002	1.4140	-0.5778	0.0285	-0.0116	0.0347	-0.0142	0.0333
733	0.0002	-0.0001	0.4949	-0.2022	0.0007	-0.0003	0.0000	0.0000	0.0152
739	0.0000	0.0000	0.5105	-0.1407	0.0000	0.0000	0.0000	0.0000	0.0134
744	0.0002	-0.0001	0.4102	-0.1131	0.0002	-0.0001	0.0000	0.0000	0.0131
749	0.0005	-0.0001	0.8796	-0.2424	0.0007	-0.0002	0.0000	0.0000	0.0191
724	0.0002	-0.0001	0.9582	-0.2635	0.0018	-0.0005	0.0000	0.0000	0.0061
729	0.0005	-0.0001	0.9413	-0.2589	0.0000	0.0000	0.0000	0.0000	0.0167
734	0.0000	0.0000	1.0320	-0.2838	0.0000	0.0000	0.0000	0.0000	0.0045
740	0.0001	0.0000	0.6485	-0.1412	0.0000	0.0000	0.0000	0.0000	0.0017
745	0.0009	-0.0002	0.5715	-0.1245	0.0218	-0.0047	0.0428	-0.0093	0.0021
750	0.0004	-0.0001	0.7202	-0.1568	0.0018	-0.0004	0.0000	0.0000	0.0027
725	0.0001	0.0000	0.6698	-0.1455	0.0044	-0.0010	0.0000	0.0000	0.0020
730	0.0005	-0.0001	0.9148	-0.1987	0.0000	0.0000	0.0000	0.0000	0.0037
735	0.0005	-0.0001	0.5879	-0.1277	0.0000	0.0000	0.0000	0.0000	0.0031
766	0.0000	0.0000	0.2620	-0.0317	0.0024	-0.0003	0.0901	-0.0109	0.0270
771	0.0000	0.0000	0.0906	-0.0110	0.0000	0.0000	0.4431	-0.0536	0.0060
776	0.0000	0.0000	0.2660	-0.0322	0.0000	0.0000	2.2150	-0.2681	0.0033
751	0.0000	0.0000	1.2300	-0.1479	0.0000	0.0000	2.4420	-0.2936	0.0127
756	0.0000	0.0000	1.0970	-0.1319	0.0000	0.0000	2.5760	-0.3098	0.0068
761	0.0000	0.0000	0.8697	-0.1046	0.0009	-0.0001	0.4306	-0.0518	0.0098
767	0.0000	0.0000	0.3070	-0.0401	0.0000	0.0000	0.0190	-0.0025	0.0172
772	0.0000	0.0000	0.0104	-0.0014	0.0000	0.0000	0.2665	-0.0348	0.0094
777	0.0000	0.0000	0.5424	-0.0709	0.0000	0.0000	0.0293	-0.0038	0.0066
752	0.0000	0.0000	1.0120	-0.1322	0.0000	0.0000	0.0370	-0.0048	0.0168
757	0.0000	0.0000	1.0380	-0.1356	0.0000	0.0000	0.4167	-0.0544	0.0178
762	0.0014	-0.0002	0.4111	-0.0537	0.0000	0.0000	0.0800	-0.0105	0.0290
768	0.0000	0.0000	0.2632	-0.0409	0.0000	0.0000	0.0221	-0.0034	0.0182
773	0.0000	0.0000	0.1350	-0.0210	0.0092	-0.0014	0.0333	-0.0052	0.0115
778	0.0000	0.0000	0.2231	-0.0347	0.0000	0.0000	0.0197	-0.0031	0.0044
753	0.0000	0.0000	1.2960	-0.2007	0.0000	0.0000	0.0259	-0.0040	0.0159
758	0.0000	0.0000	2.4470	-0.3790	0.0000	0.0000	0.0285	-0.0044	0.0328
763	0.0007	-0.0001	0.3925	-0.0608	0.0000	0.0000	0.0202	-0.0031	0.0285
769	0.0000	0.0000	0.3487	-0.0806	0.0000	0.0000	0.0140	-0.0032	0.0130
774	0.0000	0.0000	0.2645	-0.0611	0.0000	0.0000	0.0162	-0.0037	0.0135
779	0.0000	0.0000	0.7183	-0.1661	0.0006	-0.0001	0.0211	-0.0049	0.0184
754	0.0000	0.0000	1.7420	-0.4013	0.0001	0.0000	0.0207	-0.0048	0.0056
759	0.0000	0.0000	1.7840	-0.4109	0.0018	-0.0004	0.0275	-0.0063	0.0162
764	0.0000	0.0000	0.8512	-0.1961	0.0012	-0.0003	0.0186	-0.0043	0.0062
770	0.0000	0.0000	0.5127	-0.1695	0.0000	0.0000	0.0110	-0.0036	0.0013
775	0.0000	0.0000	0.4282	-0.1416	0.0000	0.0000	0.0200	-0.0066	0.0006
780	0.0000	0.0000	0.5679	-0.1877	0.0015	-0.0005	0.0219	-0.0072	0.0016
755	0.0000	0.0000	1.5480	-0.5106	0.0006	-0.0002	0.0108	-0.0036	0.0005
760	0.0000	0.0000	1.8000	-0.5937	0.0000	0.0000	0.0211	-0.0070	0.0032
765	0.0000	0.0000	0.4847	-0.1599	0.0000	0.0000	0.0077	-0.0025	0.0032

#	Mo2020	Mo2020	Na5889	Na5889	P_1774	P_1774	S_1820	S_1820	Sr4215
	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
802	0.0052	0.0002	1.6795	0.0537	0.0373	0.0012	0.1320	0.0042	0.0182
782	0.0040	0.0001	0.5283	0.0168	0.0415	0.0013	0.0503	0.0016	0.0257
798	0.0000	0.0000	0.4410	0.0001	0.0000	0.0000	0.0425	0.0000	0.0183
803	0.0002	0.0000	0.1966	0.0000	0.0000	0.0000	0.0200	0.0000	0.0116
808	0.0000	0.0000	0.4160	0.0001	0.0029	0.0000	0.0451	0.0000	0.0065
783	0.0000	0.0000	0.5566	0.0005	0.0000	0.0000	0.0432	0.0000	0.0161
788	0.0041	0.0000	1.8645	0.0015	0.1323	0.0001	0.1394	0.0001	0.0398
793	0.0002	0.0000	0.8913	0.0007	0.0246	0.0000	0.0702	0.0001	0.0255
799	0.0000	0.0000	0.4748	-0.0196	0.0000	0.0000	0.0262	-0.0011	0.0141
804	0.0002	0.0000	0.2795	-0.0115	0.0000	0.0000	0.0103	-0.0004	0.0125
809	0.0001	0.0000	0.6697	-0.0276	0.0000	0.0000	0.0236	-0.0010	0.0214
784	0.0000	0.0000	0.5055	-0.0201	0.0000	0.0000	0.0187	-0.0007	0.0048
789	0.0000	0.0000	0.9263	-0.0367	0.0000	0.0000	0.0196	-0.0008	0.0190
794	0.0000	0.0000	0.9508	-0.0377	0.0000	0.0000	0.0181	-0.0007	0.0039
800	0.0001	0.0000	0.5493	-0.0841	0.0029	-0.0004	0.0065	-0.0010	0.0018
805	0.0000	0.0000	0.4061	-0.0622	0.0022	-0.0003	0.0132	-0.0020	0.0026
810	0.0000	0.0000	0.5660	-0.0867	0.0010	-0.0002	0.0142	-0.0022	0.0029
785	0.0000	0.0000	0.5952	-0.0893	0.0000	0.0000	0.0096	-0.0014	0.0007
790	0.0000	0.0000	0.9831	-0.1475	0.0000	0.0000	0.0250	-0.0037	0.0033
795	0.0000	0.0000	0.5545	-0.0832	0.0000	0.0000	0.0207	-0.0031	0.0031
829	0.0000	0.0000	0.4220	0.0033	0.0035	0.0000	0.0267	0.0002	0.0138
834	0.0004	0.0000	0.5078	0.0039	0.0070	0.0001	0.0410	0.0003	0.0136
839	0.0002	0.0000	0.7167	0.0056	0.0460	0.0004	0.0561	0.0004	0.0321
814	0.0040	0.0000	0.7991	0.0063	0.0172	0.0001	0.0349	0.0003	0.0075
819	0.0000	0.0000	1.7231	0.0135	0.0306	0.0002	0.0893	0.0007	0.0247
824	0.0006	0.0000	1.2508	0.0098	0.0226	0.0002	0.0472	0.0004	0.0055
830	0.0001	0.0000	0.5254	-0.0408	0.0058	-0.0005	0.0170	-0.0013	0.0008
835	0.0029	-0.0002	0.6857	-0.0532	0.1218	-0.0094	0.1139	-0.0088	0.0041
840	0.0000	0.0000	0.6021	-0.0467	0.0005	0.0000	0.0216	-0.0017	0.0020
815	0.0000	0.0000	0.6012	-0.0456	0.0016	-0.0001	0.0098	-0.0007	0.0008
820	0.0003	0.0000	0.9775	-0.0742	0.0052	-0.0004	0.0357	-0.0027	0.0035
825	0.0000	0.0000	0.5158	-0.0391	0.0033	-0.0003	0.0353	-0.0027	0.0040
859	0.0000	0.0000	0.5606	0.0111	0.0069	0.0001	0.0519	0.0010	0.0149
860	0.0000	0.0000	0.6339	-0.0322	0.0171	-0.0009	0.0479	-0.0024	0.0011
870	0.0013	-0.0001	0.7873	-0.0400	0.0244	-0.0012	0.0624	-0.0032	0.0036
845	0.0000	0.0000	0.6849	-0.0340	0.0091	-0.0005	0.0276	-0.0014	0.0003
850	0.0045	-0.0002	1.5905	-0.0790	0.0293	-0.0015	0.0664	-0.0033	0.0035
855	0.0000	0.0000	0.7541	-0.0375	0.0122	-0.0006	0.0390	-0.0019	0.0016
889	0.0000	0.0000	0.8097	0.0000	0.0147	0.0000	0.0592	0.0000	0.0148
899	0.0039	0.0000	2.2961	0.0000	0.0547	0.0000	0.3424	0.0000	0.0572
890	0.0001	0.0000	0.6034	0.0000	0.0162	0.0000	0.0334	0.0000	0.0019

#	Mo2020	Mo2020	Na5889	Na5889	P_1774	P_1774	S_1820	S_1820	Sr4215
	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
900	0.0001	0.0000	0.9062	0.0000	0.0121	0.0000	0.1253	0.0000	0.0075
875	0.0003	0.0000	0.6996	0.0000	0.0024	0.0000	0.0341	0.0000	0.0009
880	0.0001	0.0000	1.3660	0.0000	0.0005	0.0000	0.0487	0.0000	0.0029

#	Sr4215	Zn2025	Zn2025	NH4-N	NH4-N	NO3-N	NO3-N	pH
	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	
16	-0.0111	0.0003	-0.0003	0.0000	0.0000	2.9950	-3.1617	4.78
21	-0.0618	0.0086	-0.0091	0.3480	-0.3674	33.5350	-35.4014	3.86
26	-0.0119	0.0143	-0.0151	0.0000	0.0000	7.5240	-7.9428	4.06
1	-0.0996	0.0000	0.0000	0.0000	0.0000	29.3080	-30.9490	4.24
6	-0.1302	0.0005	-0.0005	15.4800	-16.3468	51.7310	-54.6275	3.87
11	-0.0181	0.0000	0.0000	0.0210	-0.0222	5.9400	-6.2726	4.66
17	-0.0263	0.0047	-0.0046	0.0000	0.0000	11.8880	-11.5330	4.22
22	-0.0695	0.0000	0.0000	0.0000	0.0000	27.9060	-27.0726	4.02
27	-0.0325	0.0159	-0.0154	0.0000	0.0000	12.6090	-12.2325	4.02
2	-0.0171	0.0248	-0.0239	0.0000	0.0000	3.1660	-3.0553	4.34
7	-0.0581	0.0039	-0.0038	0.0000	0.0000	24.3850	-23.5324	3.95
12	-0.0706	0.0192	-0.0185	0.0000	0.0000	23.0310	-22.2257	4.03
18	-0.0088	0.0464	-0.0392	0.0000	0.0000	3.8440	-3.2492	6.31
23	-0.0235	0.0052	-0.0044	0.0000	0.0000	11.2970	-9.5489	4.17
28	-0.0141	0.0160	-0.0135	0.0000	0.0000	4.6280	-3.9119	4.12
3	-0.0057	0.0000	0.0000	0.0050	-0.0042	0.4960	-0.4124	4.54
8	-0.0367	0.0167	-0.0139	0.0000	0.0000	14.1450	-11.7600	3.96
13	-0.0217	0.0918	-0.0763	0.1200	-0.0998	9.3360	-7.7618	4.19
19	-0.0053	0.0138	-0.0091	0.0000	0.0000	2.1490	-1.4132	4.48
24	-0.0070	0.0365	-0.0240	0.0000	0.0000	1.2490	-0.8214	4.35
29	-0.0147	0.0254	-0.0167	0.0000	0.0000	4.6070	-3.0296	4.09
4	-0.0060	0.0174	-0.0111	0.0000	0.0000	0.6970	-0.4449	4.45
9	-0.0174	0.1047	-0.0668	0.0000	0.0000	7.1550	-4.5668	4.09
14	-0.0045	0.0106	-0.0068	0.0000	0.0000	0.2830	-0.1806	4.38
20	-0.0012	0.0065	-0.0033	0.0000	0.0000	0.0000	0.0000	3.50
25	-0.0028	0.0238	-0.0121	0.0000	0.0000	0.0000	0.0000	4.43
30	-0.0022	0.0108	-0.0055	0.0000	0.0000	0.0000	0.0000	4.50
5	-0.0017	0.0238	-0.0113	0.0000	0.0000	0.0000	0.0000	5.62
10	-0.0053	0.0313	-0.0149	0.0000	0.0000	0.3530	-0.1679	4.12
15	-0.0019	0.0161	-0.0077	0.0000	0.0000	0.0740	-0.0352	4.49
46	-0.0015	0.0042	-0.0007	0.0000	0.0000	2.3260	-0.3689	4.59
51	-0.0053	0.0137	-0.0022	0.0000	0.0000	19.6660	-3.1191	3.92
56	-0.0022	0.0276	-0.0044	0.0000	0.0000	7.9160	-1.2555	3.93
31	-0.0076	0.0000	0.0000	0.0000	0.0000	8.6680	-1.3950	4.40
36	-0.0171	0.0000	0.0000	13.4200	-2.1598	49.1060	-7.9029	3.84
41	-0.0029	0.0516	-0.0083	0.0930	-0.0150			.
47	-0.0029	0.0069	-0.0010	0.0000	0.0000	7.2620	-1.0213	4.12
52	-0.0121	0.0000	0.0000	0.0000	0.0000	35.3190	-4.9670	3.98
57	-0.0037	0.1529	-0.0215	0.0480	-0.0068			.

#	Sr4215	Zn2025	Zn2025	NH4-N	NH4-N	NO3-N	NO3-N	pH
	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	
32	-0.0022	0.0198	-0.0027	0.0000	0.0000	4.6880	-0.6386	4.32
37	-0.0069	0.0096	-0.0013	0.0000	0.0000	23.3700	-3.1836	3.97
42	-0.0116	0.1002	-0.0137	0.1030	-0.0140			.
48	-0.0019	0.0194	-0.0026	0.0000	0.0000	3.8140	-0.5118	4.33
53	-0.0039	0.0043	-0.0006	0.0000	0.0000	12.2700	-1.6463	4.12
58				0.1330	-0.0178	2.7570	-0.3699	.
33	-0.0032	0.0129	-0.0016	0.0000	0.0000	8.4340	-1.0721	4.25
38	-0.0061	0.0357	-0.0045	0.0000	0.0000	16.9990	-2.1610	3.91
43	-0.0049	0.0964	-0.0123	0.2750	-0.0350			.
49	-0.0021	0.0163	-0.0030	0.0000	0.0000	2.5770	-0.4738	4.21
54	-0.0025	0.0510	-0.0094	0.0000	0.0000	1.5840	-0.2912	4.10
59				0.2140	-0.0393			.
34	-0.0011	0.0165	-0.0029	0.0000	0.0000	0.5750	-0.0993	4.36
39	-0.0044	0.1199	-0.0207	0.0000	0.0000			3.86
44	-0.0034	0.1316	-0.0227	0.1270	-0.0219			.
50	-0.0005	0.0026	-0.0005	0.0000	0.0000	0.0000	0.0000	4.66
55	-0.0022	0.0640	-0.0128	0.0000	0.0000	0.0000	0.0000	4.03
60				0.1740	-0.0348	0.0000	0.0000	.
35	-0.0010	0.0319	-0.0060	0.0000	0.0000	0.0000	0.0000	4.23
40	-0.0024	0.0668	-0.0126	0.0350	-0.0066			.
45	-0.0026	0.1477	-0.0280	0.0650	-0.0123			.
76	-0.0059	0.0000	0.0000	0.2500	-0.0728	6.3960	-1.8633	4.26
81	-0.0101	0.0215	-0.0063	0.0330	-0.0096	20.6230	-6.0078	3.79
86	-0.0036	0.0143	-0.0042	0.0000	0.0000	8.4320	-2.4564	3.90
61	-0.0165	0.0000	0.0000	0.0120	-0.0035	8.8990	-2.6321	4.18
66	-0.0355	0.0027	-0.0008	11.2300	-3.3215	48.2730	-14.2779	3.62
71	-0.0088	0.0000	0.0000	2.6670	-0.7888	5.7980	-1.7149	4.42
77	-0.0086	0.0000	0.0000	0.0010	-0.0003	13.4570	-4.4242	4.04
82	-0.0283	0.0000	0.0000	0.0130	-0.0043	36.4110	-11.9707	3.86
87	-0.0138	0.0033	-0.0011	0.0320	-0.0105	16.9090	-5.5591	3.86
62	-0.0063	0.0173	-0.0054	0.0000	0.0000	7.6240	-2.3673	4.12
67	-0.0198	0.0000	0.0000	0.0000	0.0000	27.5780	-8.5630	3.78
72	-0.0411	0.0000	0.0000	0.3560	-0.1105	40.1180	-12.4567	3.69
78	-0.0049	0.0025	-0.0009	0.0030	-0.0011	3.5140	-1.2487	4.17
83	-0.0099	0.0000	0.0000	0.0000	0.0000	13.3280	-4.7360	4.03
88	-0.0054	0.0190	-0.0068	0.0000	0.0000	5.0060	-1.7788	4.01
63	-0.0084	0.0101	-0.0035	0.0030	-0.0010	8.6060	-3.0109	4.10
68	-0.0159	0.0142	-0.0050	0.0220	-0.0077	17.8640	-6.2500	3.82
73	-0.0107	0.1439	-0.0503	1.5930	-0.5573	13.0440	-4.5636	4.30
79	-0.0028	0.0095	-0.0032	0.0000	0.0000	2.3960	-0.8194	4.28
84	-0.0037	0.0307	-0.0105	0.0370	-0.0127	1.4880	-0.5089	4.19
89	-0.0036	0.0276	-0.0094	0.1700	-0.0581	3.7650	-1.2876	3.86
64	-0.0014	0.0120	-0.0040	0.0300	-0.0101	0.6780	-0.2283	4.37
69	-0.0094	0.1086	-0.0366	0.1220	-0.0411	7.5480	-2.5420	3.98
74	-0.0020	0.0087	-0.0029	0.0350	-0.0118	0.3300	-0.1111	4.24
80	-0.0006	0.0000	0.0000	0.0090	-0.0030	0.0000	0.0000	5.68

#	Sr4215	Zn2025	Zn2025	NH4-N	NH4-N	NO3-N	NO3-N	pH
	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	
85	-0.0012	0.0205	-0.0068	0.0020	-0.0007	0.0000	0.0000	4.20
90	-0.0010	0.0043	-0.0014	0.0000	0.0000	0.0000	0.0000	4.57
65	-0.0011	0.0175	-0.0057	0.0050	-0.0016	0.0000	0.0000	4.42
70	-0.0026	0.0304	-0.0098	0.0070	-0.0023	0.3530	-0.1141	4.00
75	-0.0014	0.0106	-0.0034	0.0020	-0.0006	0.0610	-0.0197	4.41
106	-0.0188	0.0000	0.0000	0.0240	-0.0162	10.5160	-7.1055	4.15
111	-0.0141	0.0177	-0.0120	0.0000	0.0000	11.4890	-7.7630	3.81
116	-0.0112	0.0168	-0.0114	0.0000	0.0000	13.0430	-8.8130	3.83
91	-0.0293	0.0000	0.0000	0.0000	0.0000	2.5690	-1.7482	4.50
96	-0.0604	0.0000	0.0000	3.9060	-2.6581	40.9210	-27.8470	3.68
101	-0.0153	0.0006	-0.0004	0.2410	-0.1640	6.6370	-4.5165	4.46
107	-0.0130	0.0000	0.0000	0.0000	0.0000	11.2180	-6.9330	4.06
112	-0.0375	0.0000	0.0000	0.0000	0.0000	28.0160	-17.3146	3.81
117	-0.0246	0.0079	-0.0049	0.0000	0.0000	16.9130	-10.4527	3.81
92	-0.0195	0.0200	-0.0124	0.0290	-0.0180	13.0280	-8.1019	4.13
97	-0.0492	0.0000	0.0000	0.0000	0.0000	32.0380	-19.9238	3.68
102	-0.0722	0.0359	-0.0223	0.0690	-0.0429	38.0460	-23.6601	3.76
108	-0.0087	0.0000	0.0000	0.0000	0.0000	4.0900	-2.2344	4.15
113	-0.0157	0.0000	0.0000	0.0000	0.0000	13.1820	-7.2014	4.00
118	-0.0086	0.0214	-0.0117	0.0000	0.0000	5.3800	-2.9391	3.96
93	-0.0118	0.0067	-0.0037	0.0000	0.0000	8.6780	-4.7725	4.17
98	-0.0261	0.0224	-0.0123	0.0000	0.0000	18.4600	-10.1522	3.85
103	-0.0186	0.1507	-0.0829	0.8420	-0.4631	16.4470	-9.0451	4.02
109	-0.0038	0.0096	-0.0042	0.0000	0.0000	2.3880	-1.0552	4.28
114	-0.0051	0.0312	-0.0138	0.0410	-0.0181	1.6510	-0.7295	4.14
119	-0.0094	0.0202	-0.0089	0.1560	-0.0689	4.7340	-2.0918	3.95
94	-0.0030	0.0115	-0.0050	0.0110	-0.0048	1.1780	-0.5165	4.44
99	-0.0109	0.0872	-0.0382	0.0000	0.0000	7.6160	-3.3391	4.10
104	-0.0028	0.0085	-0.0037	0.0000	0.0000	0.2990	-0.1311	4.30
110	-0.0009	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5.58
115	-0.0018	0.0245	-0.0092	0.0000	0.0000	0.0000	0.0000	4.29
120	-0.0015	0.0088	-0.0033	0.0000	0.0000	0.0000	0.0000	4.68
100	-0.0029	0.0258	-0.0096	0.0000	0.0000	0.3410	-0.1267	4.15
105	-0.0016	0.0113	-0.0042	0.0000	0.0000	0.0340	-0.0126	4.42
136	-0.0039	0.0000	0.0000	2.7770	-0.2721	10.4470	-1.0235	4.06
141	-0.0008	0.0048	-0.0005	0.1140	-0.0112	3.7820	-0.3705	4.06
146	-0.0017	0.0123	-0.0012	0.9710	-0.0951	16.2570	-1.5927	3.82
121	-0.0024	0.0000	0.0000	0.1100	-0.0121	0.6520	-0.0715	4.59
126	-0.0035	0.0000	0.0000	0.8390	-0.0921	14.7360	-1.6169	3.75
131	-0.0027	0.0056	-0.0006	0.2870	-0.0315	8.2130	-0.9012	4.34
137	-0.0034	0.0000	0.0000	0.0740	-0.0113	14.9250	-2.2844	3.97
142	-0.0042	0.0034	-0.0005	0.0730	-0.0112	12.8180	-1.9619	3.90
147	-0.0066	0.0000	0.0000	0.0820	-0.0126	21.4900	-3.2893	3.88
122	-0.0070	0.0000	0.0000	0.1620	-0.0244	21.4160	-3.2193	3.91
127	-0.0144	0.0000	0.0000	0.2030	-0.0305	38.6600	-5.8115	3.72

#	Sr4215	Zn2025	Zn2025	NH4-N	NH4-N	NO3-N	NO3-N	pH
	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	
132	-0.0135	0.0162	-0.0024	0.1760	-0.0265	32.8280	-4.9348	3.73
138	-0.0038	0.0001	0.0000	0.2670	-0.0632	6.1460	-1.4550	4.21
143	-0.0064	0.0000	0.0000	0.1280	-0.0303	14.2430	-3.3720	3.99
148	-0.0037	0.0287	-0.0068	0.0730	-0.0173	7.7030	-1.8237	4.05
123	-0.0051	0.0017	-0.0004	0.1110	-0.0254	11.4940	-2.6279	4.08
128	-0.0112	0.0088	-0.0020	0.0780	-0.0178	23.8960	-5.4633	3.83
133	-0.0088	0.1297	-0.0297	0.5690	-0.1301	21.0730	-4.8179	4.64
139	-0.0032	0.0300	-0.0109	0.0920	-0.0334	4.0610	-1.4745	4.28
144	-0.0044	0.0486	-0.0176	0.2710	-0.0984	3.8420	-1.3950	4.41
149	-0.0070	0.0467	-0.0170	0.0620	-0.0225	7.5530	-2.7424	4.11
124	-0.0017	0.0233	-0.0081	0.2000	-0.0698	2.8470	-0.9935	4.52
129	-0.0084	0.0908	-0.0317	0.0760	-0.0265			3.89
134	-0.0023	0.0256	-0.0089	0.0980	-0.0342	1.9370	-0.6759	4.42
140	-0.0016	0.0104	-0.0051	0.0800	-0.0390	0.6120	-0.2982	4.88
145	-0.0022	0.0434	-0.0212	0.2050	-0.0999	1.7680	-0.8616	4.58
150	-0.0020	0.0315	-0.0154	0.1020	-0.0497	1.2070	-0.5882	4.62
								.
130	-0.0038	0.0607	-0.0289	0.1260	-0.0600	3.9850	-1.8967	3.66
135	-0.0022	0.0305	-0.0145	0.2090	-0.0995	1.0590	-0.5040	4.47
166	-0.0065	0.0203	-0.0105	0.0540	-0.0280	0.0000	0.0000	4.79
171	-0.0032	0.0079	-0.0041	0.4210	-0.2183	0.1430	-0.0741	4.43
176	-0.0084	0.0126	-0.0065	18.3600	-9.5189	11.3040	-5.8607	3.89
151	-0.0370	0.0000	0.0000	7.2350	-3.9626	9.5220	-5.2151	3.91
156	-0.0139	0.0010	-0.0005	0.0000	0.0000	3.7090	-2.0314	3.95
161	-0.0208	0.0000	0.0000	0.1580	-0.0865	5.4540	-2.9871	4.42
167	-0.0251	0.0058	-0.0030	0.1700	-0.0869	20.5730	-10.5129	4.04
172	-0.0050	0.0072	-0.0037	0.0160	-0.0082	1.9100	-0.9760	4.32
177	-0.0188	0.0141	-0.0072	0.0000	0.0000	17.5870	-8.9871	3.97
152	-0.0116	0.0000	0.0000	0.0000	0.0000	12.8760	-6.9708	4.07
157	-0.0580	0.0000	0.0000	0.0620	-0.0336	41.8470	-22.6551	3.76
162	-0.0612	0.0080	-0.0043	0.0690	-0.0374	38.0390	-20.5935	3.72
168	-0.0124	0.0055	-0.0027	0.0090	-0.0044	11.3010	-5.5764	4.17
173	-0.0109	0.0000	0.0000	0.6270	-0.3094	9.3770	-4.6271	4.18
178	-0.0078	0.0437	-0.0216	0.0000	0.0000	6.7230	-3.3174	4.13
153	-0.0107	0.0217	-0.0113	0.1010	-0.0527	5.3230	-2.7752	4.23
158	-0.0275	0.0223	-0.0116	0.0000	0.0000	23.8060	-12.4114	3.88
163	-0.0241	0.3039	-0.1584	0.4090	-0.2132	23.7590	-12.3869	4.07
169	-0.0033	0.0140	-0.0064	0.0500	-0.0230	1.3200	-0.6077	4.54
174	-0.0060	0.0305	-0.0140	1.2950	-0.5962	2.7310	-1.2572	5.35
179	-0.0100	0.0235	-0.0108	0.0000	0.0000	5.3440	-2.4601	4.18
154	-0.0044	0.0454	-0.0213	0.0010	-0.0005	2.5410	-1.1906	4.36
159	-0.0114	0.0973	-0.0456	0.0020	-0.0009	7.8740	-3.6896	4.08
164	-0.0032	0.0479	-0.0224	0.0010	-0.0005	0.8760	-0.4105	4.46
								.
175	-0.0018	0.0268	-0.0118	0.5810	-0.2559	0.0000	0.0000	5.12

#	Sr4215	Zn2025	Zn2025	NH4-N	NH4-N	NO3-N	NO3-N	pH
	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	
180	-0.0018	0.0101	-0.0044	0.0000	0.0000	0.0000	0.0000	4.78
155	-0.0016	0.0125	-0.0056	0.0030	-0.0013	0.0000	0.0000	4.85
160	-0.0036	0.0611	-0.0273	0.0200	-0.0090	0.6120	-0.2739	4.44
165	-0.0021	0.0310	-0.0139	0.0900	-0.0403	0.3370	-0.1508	4.49
196	-0.0267	0.0210	-0.0150	3.4060	-2.4282	11.9600	-8.5265	3.91
201	-0.0031	0.0055	-0.0039	0.2500	-0.1782	0.0000	0.0000	4.23
206	-0.0046	0.0180	-0.0128	1.1280	-0.8042	2.3310	-1.6618	4.05
181	-0.0145	0.0077	-0.0057	0.0420	-0.0311	0.0000	0.0000	5.02
186	-0.0104	0.0170	-0.0126	0.0040	-0.0030	1.3970	-1.0359	4.06
191	-0.0059	0.0254	-0.0188	0.1370	-0.1016	0.0000	0.0000	5.10
197	-0.0090	0.0000	0.0000	0.0000	0.0000	7.0740	-4.8739	4.17
202	-0.0028	0.0144	-0.0099	0.0430	-0.0296	0.0000	0.0000	4.51
207				0.0850	-0.0586			3.98
182	-0.0228	0.0116	-0.0083	0.0270	-0.0193	13.1740	-9.4256	3.97
187	-0.0771	0.0003	-0.0002	0.0100	-0.0072	42.5320	-30.4302	3.69
192	-0.0773	0.0414	-0.0296	0.1460	-0.1045	35.5030	-25.4012	3.78
198	-0.0122	0.0111	-0.0072	0.0000	0.0000	6.7320	-4.3879	4.16
203	-0.0124	0.0264	-0.0172	0.3910	-0.2549	7.3300	-4.7777	4.09
208	-0.0099	0.0591	-0.0385	0.0000	0.0000	7.0910	-4.6219	4.00
183	-0.0173	0.0000	0.0000	0.0260	-0.0174	11.0210	-7.3778	4.07
188	-0.0360	0.0460	-0.0308	0.0140	-0.0094	23.4220	-15.6793	3.82
193	-0.0372	0.2772	-0.1856	0.3870	-0.2591	29.1610	-19.5212	3.90
199	-0.0060	0.0204	-0.0125	0.0000	0.0000	2.4720	-1.5203	4.32
204	-0.0052	0.0483	-0.0297	0.9330	-0.5738	1.4290	-0.8788	5.04
209	-0.0111	0.0524	-0.0322	0.0000	0.0000	5.0210	-3.0879	4.09
184	-0.0040	0.0200	-0.0125	0.0370	-0.0231	1.1370	-0.7099	4.51
189	-0.0147	0.0969	-0.0605	0.0120	-0.0075	8.1440	-5.0849	4.04
194	-0.0042	0.0192	-0.0120	0.0480	-0.0300	1.2070	-0.7536	4.38
200	-0.0012	0.0150	-0.0092	0.0020	-0.0012	0.0000	0.0000	4.85
205	-0.0055	0.0463	-0.0285	0.3960	-0.2436	0.0000	0.0000	4.84
210	-0.0018	0.0195	-0.0120	0.0000	0.0000	0.0000	0.0000	4.67
190	-0.0039	0.0574	-0.0357	0.0160	-0.0099	0.5510	-0.3426	4.39
195	-0.0024	0.0259	-0.0161	0.0310	-0.0193	0.2350	-0.1461	4.38
226	-0.0172	0.0560	-0.0674	0.0050	-0.0060	1.7210	-2.0720	4.21
231	-0.0054	0.0074	-0.0089	0.0310	-0.0373	0.0000	0.0000	4.40
236	-0.0119	0.0308	-0.0371	1.4610	-1.7590	26.1860	-31.5274	3.74
211	-0.0344	0.0000	0.0000	0.0050	-0.0062	0.0000	0.0000	5.24
216	-0.0089	0.0070	-0.0087	0.0000	0.0000	0.0000	0.0000	4.44
221	-0.0053	0.0030	-0.0037	0.0240	-0.0297	0.0000	0.0000	5.26
227	-0.0131	0.0000	0.0000	0.0000	0.0000	5.5530	-6.2275	4.28
232	-0.0035	0.0086	-0.0096	0.0000	0.0000	0.0000	0.0000	4.84
237	-0.0293	0.0112	-0.0126	0.0000	0.0000	12.4720	-13.9869	3.85
212	-0.0264	0.0284	-0.0327	0.0500	-0.0576	8.0540	-9.2803	4.14
217	-0.1112	0.0000	0.0000	0.0000	0.0000	40.7850	-46.9950	3.78
222	-0.0368	0.0004	-0.0005	0.0000	0.0000	5.9560	-6.8629	4.01

#	Sr4215	Zn2025	Zn2025	NH4-N	NH4-N	NO3-N	NO3-N	pH
	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	
228	-0.0214	0.0056	-0.0055	0.0000	0.0000	8.0210	-7.8291	4.18
233	-0.0134	0.0076	-0.0074	0.1040	-0.1015	4.3940	-4.2889	4.16
238	-0.0150	0.0637	-0.0622	0.0000	0.0000	7.8720	-7.6837	4.00
213	-0.0231	0.0146	-0.0146	0.1810	-0.1809	7.8390	-7.8340	4.20
218	-0.0517	0.0574	-0.0574	0.0000	0.0000	22.7590	-22.7446	3.89
223	-0.0597	0.1850	-0.1849	0.1550	-0.1549	29.3630	-29.3444	3.96
229	-0.0057	0.0483	-0.0370	0.0000	0.0000	2.5970	-1.9876	4.38
234	-0.0088	0.0308	-0.0236	0.2970	-0.2273	2.7700	-2.1200	4.64
239	-0.0156	0.0423	-0.0324	0.0000	0.0000	5.4110	-4.1413	4.12
214	-0.0046	0.0222	-0.0172	0.0710	-0.0549	0.7940	-0.6143	4.61
219	-0.0183	0.1114	-0.0862	0.0000	0.0000	7.9950	-6.1855	4.10
224	-0.0047	0.0274	-0.0212	0.0190	-0.0147	0.8910	-0.6893	4.42
230	-0.0012	0.0207	-0.0127	0.0000	0.0000	0.0000	0.0000	4.90
235	-0.0023	0.0359	-0.0220	0.1930	-0.1183	0.0000	0.0000	4.72
240	-0.0010	0.0258	-0.0158	0.0000	0.0000	0.0000	0.0000	4.69
								.
220	-0.0032	0.0461	-0.0299	0.0000	0.0000	0.6090	-0.3949	4.46
225	-0.0025	0.0382	-0.0248	0.0000	0.0000	0.1970	-0.1277	4.44
256	-0.0106	0.0042	-0.0026	0.0860	-0.0541	0.0000	0.0000	4.06
261	-0.0050	0.0005	-0.0003	0.0920	-0.0578	0.0000	0.0000	4.35
266	-0.0038	0.0187	-0.0118	0.2300	-0.1446	14.0260	-8.8157	3.73
241	-0.0091	0.0105	-0.0066	0.2190	-0.1372	0.8210	-0.5143	3.96
246	-0.0029	0.0036	-0.0023	0.2520	-0.1579	0.0000	0.0000	4.10
251	-0.0069	0.0049	-0.0031	0.1250	-0.0783	0.0000	0.0000	4.99
257	-0.0091	0.0088	-0.0052	0.0860	-0.0505	7.6570	-4.4962	4.07
262	-0.0479	0.0000	0.0000	0.0900	-0.0528	36.3690	-21.3561	3.62
267	-0.0126	0.0126	-0.0074	0.0580	-0.0341	12.1650	-7.1434	3.76
242	-0.0093	0.0107	-0.0062	0.2370	-0.1374	5.1520	-2.9869	3.81
247	-0.0017	0.0147	-0.0085	0.1350	-0.0783	0.0000	0.0000	4.29
252	-0.0107	0.0092	-0.0053	0.1660	-0.0962	0.0000	0.0000	4.06
258	-0.0228	0.0070	-0.0038	0.2180	-0.1179	10.7840	-5.8323	3.91
263	-0.0378	0.0316	-0.0171	0.0790	-0.0427	26.5020	-14.3331	3.72
268	-0.0084	0.0531	-0.0287	0.0830	-0.0449	9.5060	-5.1412	3.92
243	-0.0181	0.0000	0.0000	0.2380	-0.1262	15.9990	-8.4820	3.71
248	-0.0048	0.0126	-0.0067	0.4110	-0.2179	3.0680	-1.6265	3.91
253	-0.0361	0.1676	-0.0889	0.1860	-0.0986	29.8260	-15.8126	3.85
259	-0.0057	0.0389	-0.0216	0.1420	-0.0787	2.5340	-1.4045	4.19
264	-0.0124	0.1051	-0.0583	0.0590	-0.0327	9.4650	-5.2460	3.64
269	-0.0080	0.0752	-0.0417	0.0660	-0.0366	7.8560	-4.3542	3.51
244	-0.0026	0.0393	-0.0215	0.4950	-0.2707	1.1080	-0.6060	4.38
249	-0.0062	0.0464	-0.0254	0.8450	-0.4621	1.5380	-0.8411	4.78
254	-0.0088	0.0516	-0.0282	0.0550	-0.0301	0.5550	-0.3035	4.32
260	-0.0018	0.0236	-0.0148	0.1380	-0.0864	0.0000	0.0000	4.79
265	-0.0028	0.0643	-0.0402	0.0520	-0.0325	1.4830	-0.9282	4.31
270	-0.0018	0.0254	-0.0159	0.2070	-0.1296	1.1170	-0.6991	4.53

#	Sr4215	Zn2025	Zn2025	NH4-N	NH4-N	NO3-N	NO3-N	pH
	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	
245	-0.0011	0.0256	-0.0159	0.0710	-0.0440	0.1630	-0.1011	4.19
250	-0.0063	0.0409	-0.0254	0.4780	-0.2964	0.0000	0.0000	4.91
255	-0.0063	0.0280	-0.0174	0.0690	-0.0428	0.1210	-0.0750	4.39
286	-0.0099	0.0036	-0.0015	0.0100	-0.0043	0.0000	0.0000	4.28
291	-0.0024	0.0298	-0.0128	0.1500	-0.0645	0.0000	0.0000	4.38
296	-0.0018	0.0071	-0.0031	0.0040	-0.0017	1.8970	-0.8160	4.08
271	-0.0068	0.0000	0.0000	0.2230	-0.0961	0.0000	0.0000	5.55
276	-0.0041	0.0000	0.0000	0.0640	-0.0276	0.0000	0.0000	4.48
281	-0.0050	0.0000	0.0000	0.0470	-0.0203	0.0000	0.0000	5.03
287	-0.0044	0.0028	-0.0011	0.0010	-0.0004	4.6810	-1.8245	4.16
292	-0.0016	0.0065	-0.0025	0.0330	-0.0129	0.0000	0.0000	4.65
297	-0.0071	0.0026	-0.0010	0.0080	-0.0031	8.5140	-3.3185	3.95
272	-0.0033	0.0049	-0.0019	0.2050	-0.0800	0.0000	0.0000	4.82
277	-0.0282	0.0000	0.0000	0.0590	-0.0230	34.2930	-13.3804	3.75
282	-0.0037	0.0187	-0.0073	0.0330	-0.0129	0.0000	0.0000	4.48
288	-0.0103	0.0098	-0.0031	0.0440	-0.0139	12.3340	-3.9091	4.08
293	-0.0027	0.0256	-0.0081	0.1340	-0.0425	0.6140	-0.1946	4.37
298	-0.0068	0.0447	-0.0142	0.0030	-0.0010	9.5570	-3.0290	4.01
273	-0.0111	0.0000	0.0000	0.1710	-0.0541	14.9520	-4.7315	4.04
278	-0.0209	0.0316	-0.0100	0.0530	-0.0168	29.2130	-9.2443	3.84
283	-0.0211	0.2084	-0.0659	0.1120	-0.0354	28.6780	-9.0750	3.96
289	-0.0024	0.0168	-0.0045	0.0100	-0.0027	2.3910	-0.6388	4.31
294	-0.0030	0.0410	-0.0110	0.5150	-0.1376	1.4740	-0.3938	4.67
299	-0.0045	0.0935	-0.0250	0.0290	-0.0077	3.5550	-0.9498	
274	-0.0027	0.0107	-0.0029	0.2500	-0.0667	0.7450	-0.1988	4.58
279	-0.0060	0.0912	-0.0243	0.0520	-0.0139	7.4140	-1.9783	4.06
284	-0.0058	0.0591	-0.0158	0.0160	-0.0043	0.4630	-0.1235	4.38
290	-0.0011	0.0076	-0.0025	0.0170	-0.0056	0.0000	0.0000	4.82
295	-0.0101	0.0733	-0.0241	0.3840	-0.1261	0.0000	0.0000	
300	-0.0016	0.0098	-0.0032	0.0240	-0.0079	0.0000	0.0000	4.53
275	-0.0012	0.0288	-0.0094	0.0530	-0.0174	0.0000	0.0000	4.75
280	-0.0020	0.0613	-0.0201	0.0610	-0.0200	0.2710	-0.0889	4.42
285	-0.0018	0.0224	-0.0073	0.0040	-0.0013	0.1150	-0.0377	4.43
316	-0.0020	0.0017	-0.0009	0.0000	0.0000	0.0000	0.0000	4.48
321	-0.0025	0.0056	-0.0030	0.0283	-0.0151	0.0000	0.0000	4.28
326	-0.0011	0.0036	-0.0019	0.0000	0.0000	0.0000	0.0000	4.36
301	-0.0099	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5.69
306	-0.0053	0.0209	-0.0112	0.0000	0.0000	0.0000	0.0000	4.29
311	-0.0027	0.0005	-0.0003	0.0074	-0.0040	0.0000	0.0000	4.87
317	-0.0042	0.0089	-0.0049	0.0000	0.0000	1.6450	-0.9036	4.18
322	-0.0015	0.0100	-0.0055	0.0000	0.0000	0.0000	0.0000	4.58
327	-0.0070	0.0042	-0.0023	0.0000	0.0000	4.4880	-2.4653	3.95
302	-0.0028	0.0102	-0.0055	0.0000	0.0000	0.0000	0.0000	5.03
307	-0.0281	0.0025	-0.0014	0.0000	0.0000	27.4940	-14.9566	3.61
312	-0.0042	0.0212	-0.0115	0.0000	0.0000	0.0000	0.0000	4.37
318	-0.0173	0.0047	-0.0025	0.0085	-0.0046	13.3290	-7.1933	3.95

#	Sr4215	Zn2025	Zn2025	NH4-N	NH4-N	NO3-N	NO3-N	pH
	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	
323	-0.0086	0.0015	-0.0008	0.0096	-0.0052	4.9000	-2.6444	4.19
328	-0.0091	0.0696	-0.0376	0.0000	0.0000	10.0850	-5.4426	3.90
303	-0.0190	0.0000	0.0000	0.0000	0.0000	15.8360	-8.4779	3.88
308	-0.0339	0.0285	-0.0153	0.0000	0.0000	31.6980	-16.9697	3.68
313	-0.0339	0.1906	-0.1020	0.0743	-0.0398	27.1890	-14.5558	3.84
319	-0.0034	0.0114	-0.0043	0.0000	0.0000	2.4820	-0.9405	4.21
324	-0.0044	0.0647	-0.0245	0.0984	-0.0373	1.6900	-0.6404	4.36
329	-0.0052	0.0856	-0.0324	0.0000	0.0000	3.4850	-1.3206	4.05
304	-0.0019	0.0170	-0.0064	0.0316	-0.0119	0.6460	-0.2445	4.67
309	-0.0086	0.1012	-0.0383	0.0000	0.0000	7.4870	-2.8336	3.92
314	-0.0025	0.0479	-0.0181	0.0000	0.0000	0.5000	-0.1892	4.26
320	-0.0004	0.0063	-0.0019	0.0000	0.0000	0.0000	0.0000	4.75
325	-0.0013	0.0602	-0.0179	0.1269	-0.0376	0.0000	0.0000	4.49
330	-0.0011	0.0377	-0.0112	0.0020	-0.0006	0.0000	0.0000	4.45
305	-0.0005	0.0361	-0.0107	0.0000	0.0000	0.0000	0.0000	4.70
310	-0.0017	0.0609	-0.0180	0.0000	0.0000	0.1610	-0.0476	4.29
315	-0.0010	0.0216	-0.0064	0.0000	0.0000	0.0690	-0.0204	4.33
346	-0.0014	0.1265	-0.0390	0.0000	0.0000	0.0000	0.0000	
351	-0.0020	0.0403	-0.0124	0.0368	-0.0113	0.0000	0.0000	
356	-0.0010	0.0351	-0.0108	0.0000	0.0000	0.0000	0.0000	
331	-0.0042	0.1054	-0.0326	0.0100	-0.0031	0.0000	0.0000	
336	-0.0040	0.0110	-0.0034	0.0007	-0.0002	0.0000	0.0000	
341	-0.0027	0.0658	-0.0203	0.0502	-0.0155	0.0000	0.0000	
347	-0.0018	0.0703	-0.0202	0.0000	0.0000	0.7850	-0.2255	
352	-0.0012	0.0524	-0.0151	0.0000	0.0000	0.0000	0.0000	
357	-0.0032	0.0976	-0.0280	0.0254	-0.0073	1.7930	-0.5151	
332	-0.0016	0.0655	-0.0185	0.0000	0.0000	0.0000	0.0000	
337	-0.0118	0.0193	-0.0054	0.0000	0.0000	22.2630	-6.2805	
342	-0.0026	0.1092	-0.0308	0.0000	0.0000	0.0000	0.0000	
348	-0.0084	0.0643	-0.0164	0.0000	0.0000	14.9590	-3.8173	
353	-0.0031	0.0369	-0.0094	0.0000	0.0000	2.8710	-0.7326	
358	-0.0048	0.1455	-0.0371	0.0000	0.0000	11.8480	-3.0235	
333	-0.0097	0.0103	-0.0026			17.0070	-4.2549	
338	-0.0179	0.1023	-0.0256	0.0000	0.0000	38.6900	-9.6797	
343	-0.0153	0.2543	-0.0636	0.0718	-0.0180	29.6930	-7.4288	
349	-0.0026	0.9798	-0.2445	0.0000	0.0000	3.0140	-0.7520	
354	-0.0037	0.1235	-0.0308	0.0440	-0.0110	2.4790	-0.6185	
359	-0.0035	0.1847	-0.0461	0.0079	-0.0020	4.1660	-1.0395	
334	-0.0015	0.0694	-0.0168	0.0110	-0.0027	0.8580	-0.2077	
339	-0.0058	0.1703	-0.0412	0.0000	0.0000	9.2150	-2.2308	
344	-0.0020	0.0932	-0.0226	0.0000	0.0000	0.8720	-0.2111	
350	-0.0010	0.2904	-0.0969	0.0000	0.0000	0.0000	0.0000	
355	-0.0016	0.0807	-0.0269	0.0440	-0.0147	0.0000	0.0000	
360	-0.0017	0.0922	-0.0308	0.0000	0.0000	0.0000	0.0000	
335	-0.0010	0.0628	-0.0204	0.0000	0.0000	0.0000	0.0000	
340	-0.0020	0.1012	-0.0329	0.0000	0.0000	0.4470	-0.1454	

#	Sr4215	Zn2025	Zn2025	NH4-N	NH4-N	NO3-N	NO3-N	pH
	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	
345	-0.0016	0.0871	-0.0283	0.0000	0.0000	0.3170	-0.1031	
376	-0.0041	0.0404	-0.0366	0.0000	0.0000	0.0000	0.0000	
381	-0.0045	0.0211	-0.0191	0.0000	0.0000	0.0000	0.0000	
361	-0.0216	0.0112	-0.0100	0.0121	-0.0107	0.0000	0.0000	
366	-0.0140	0.0122	-0.0109	0.0000	0.0000	0.0000	0.0000	
377	-0.0043	0.0499	-0.0416	0.0000	0.0000	0.3480	-0.2902	
382	-0.0028	0.0442	-0.0369	0.0000	0.0000	0.0000	0.0000	
362	-0.0027	0.0699	-0.0581	0.0000	0.0000	0.0000	0.0000	
367	-0.0176	0.0368	-0.0306	0.0000	0.0000	12.7730	-10.6118	
378	-0.0216	0.0550	-0.0395	0.0090	-0.0064	16.2300	-11.6694	
383	-0.0063	0.0224	-0.0161	0.0009	-0.0006	1.8660	-1.3417	
363	-0.0198	0.0060	-0.0043	0.0000	0.0000	11.5060	-8.2405	
368	-0.0505	0.0305	-0.0218	0.0000	0.0000	39.3460	-28.1792	
379	-0.0048	0.1280	-0.0696	0.0000	0.0000	3.8720	-2.1053	
384	-0.0057	0.0872	-0.0474	0.0074	-0.0041	2.1960	-1.1940	
364	-0.0028	0.0736	-0.0402	0.0000	0.0000	1.0000	-0.5461	
369	-0.0106	0.1483	-0.0810	0.0000	0.0000	8.7430	-4.7747	
380	-0.0009	0.0630	-0.0252	0.0000	0.0000	0.0000	0.0000	
385	-0.0018	0.1032	-0.0413	0.0009	-0.0004	0.0000	0.0000	
365	-0.0008	0.0751	-0.0301	0.0594	-0.0238	0.0000	0.0000	
370	-0.0017	0.1119	-0.0449	0.0000	0.0000	0.4820	-0.1934	
406	-0.0002	0.2117	-0.0111	0.0000	0.0000	0.0000	0.0000	
411	-0.0003	0.0552	-0.0029	0.0000	0.0000	0.0000	0.0000	
416	-0.0001	0.0286	-0.0015	0.0000	0.0000	0.0000	0.0000	
391	-0.0010	0.0000	0.0000	0.0195	-0.0010	0.0000	0.0000	
396	-0.0008	0.0109	-0.0005	0.0000	0.0000	0.0000	0.0000	
401	-0.0004	0.0363	-0.0018	0.0261	-0.0013	0.0000	0.0000	
407	-0.0006	0.0802	-0.0091	0.0000	0.0000	0.0050	-0.0006	
412	-0.0005	0.0495	-0.0056	0.0000	0.0000	0.0000	0.0000	
417	-0.0006	0.0815	-0.0092	0.0392	-0.0044	0.0000	0.0000	
392	-0.0003	0.0643	-0.0049	0.1181	-0.0091	0.0000	0.0000	
397	-0.0010	0.0396	-0.0030	0.0000	0.0000	7.3830	-0.5680	
402	-0.0007	0.1678	-0.0129	0.0173	-0.0013	0.0000	0.0000	
408	-0.0076	0.0266	-0.0063	0.0000	0.0000	18.0960	-4.2978	
413	-0.0014	0.0719	-0.0171	0.0000	0.0000	0.3370	-0.0800	

#	Sr4215	Zn2025	Zn2025	NH4-N	NH4-N	NO3-N	NO3-N	pH
	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	
418	-0.0031	0.0600	-0.0143	0.0000	0.0000	9.6900	-2.3014	
393	-0.0048	0.0062	-0.0013	0.0000	0.0000	8.1840	-1.6668	
398	-0.0120	0.0252	-0.0051	0.0000	0.0000	36.7650	-7.4878	
403	-0.0091	0.0597	-0.0122	0.1060	-0.0216	24.2040	-4.9296	
409	-0.0037	0.0731	-0.0312	0.0000	0.0000	3.7330	-1.5932	
414	-0.0041	0.1195	-0.0510	0.0469	-0.0200	2.2310	-0.9522	
419	-0.0071	0.1009	-0.0431	0.0000	0.0000	6.0130	-2.5663	
394	-0.0022	0.0754	-0.0312	0.0294	-0.0122	1.1820	-0.4894	
399	-0.0083	0.3972	-0.1645	0.0000	0.0000	8.8290	-3.6555	
404	-0.0028	0.1080	-0.0447	0.0000	0.0000	1.0660	-0.4414	
410	-0.0012	0.0671	-0.0380	0.0000	0.0000	0.0000	0.0000	
415	-0.0023	0.1059	-0.0599	0.0173	-0.0098	0.0000	0.0000	
420	-0.0023	0.0743	-0.0421	0.0000	0.0000	0.2050	-0.1160	
395	-0.0011	0.0552	-0.0307	0.1367	-0.0759	0.0000	0.0000	
400	-0.0026	0.0209	-0.0116	0.0000	0.0000	0.6780	-0.3765	
405	-0.0027	0.0639	-0.0355	0.0000	0.0000	0.4750	-0.2638	
436	-0.0002	0.0202	-0.0010	0.0000	0.0000	0.0000	0.0000	
441	-0.0002	0.0546	-0.0027	0.0000	0.0000	0.0000	0.0000	
446	-0.0001	0.0357	-0.0018	0.0000	0.0000	0.0000	0.0000	
421	-0.0014	0.2107	-0.0106	0.0053	-0.0003	0.0000	0.0000	
426	-0.0013	0.0141	-0.0007	0.0000	0.0000	0.1300	-0.0065	
431	-0.0004	0.0652	-0.0033	0.0103	-0.0005	0.0000	0.0000	
437	-0.0002	0.0708	-0.0042	0.0000	0.0000	0.0000	0.0000	
442	-0.0002	0.0469	-0.0028	0.0000	0.0000	0.0000	0.0000	
447	-0.0014	0.5480	-0.0325	0.2223	-0.0132	0.0670	-0.0040	
422	-0.0003	0.1538	-0.0090	0.0217	-0.0013	0.0000	0.0000	
427	-0.0008	0.0327	-0.0019	0.0000	0.0000	6.4400	-0.3754	
432	-0.0006	0.1266	-0.0074	0.0070	-0.0004	0.0000	0.0000	
438	-0.0025	0.0188	-0.0014	0.0000	0.0000	19.5470	-1.4081	
443	-0.0006	0.0791	-0.0057	0.0000	0.0000	1.5700	-0.1131	
448	-0.0010	0.1209	-0.0087	0.0000	0.0000	8.4080	-0.6057	
423	-0.0016	0.0125	-0.0009	0.0000	0.0000	7.6600	-0.5484	
428	-0.0046	0.0739	-0.0053	0.0037	-0.0003	35.5960	-2.5486	
433	-0.0029	0.0696	-0.0050	0.0213	-0.0015	20.7050	-1.4824	
439	-0.0009	0.0808	-0.0089	0.0000	0.0000	4.1260	-0.4523	
444	-0.0012	0.1294	-0.0142	0.0169	-0.0019	2.5090	-0.2750	
449	-0.0026	0.1185	-0.0130	0.0000	0.0000	6.7190	-0.7365	
424	-0.0006	0.1014	-0.0109	0.0173	-0.0019	1.1920	-0.1279	
429	-0.0023	0.1837	-0.0197	0.0000	0.0000	9.0510	-0.9711	
434	-0.0008	0.1636	-0.0176	0.0521	-0.0056	0.9710	-0.1042	
440	-0.0005	0.0844	-0.0169	0.0000	0.0000	0.0000	0.0000	
445	-0.0010	0.1308	-0.0261	0.0000	0.0000	0.0000	0.0000	
450	-0.0007	0.1180	-0.0236	0.0000	0.0000	0.2330	-0.0465	
425	-0.0005	0.0909	-0.0177	0.0337	-0.0066	0.0000	0.0000	
430	-0.0011	0.1221	-0.0238	0.0000	0.0000	0.8260	-0.1612	
435	-0.0009	0.0728	-0.0142	0.0000	0.0000	0.5140	-0.1003	

#	Sr4215	Zn2025	Zn2025	NH4-N	NH4-N	NO3-N	NO3-N	pH
	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	
466	-0.0007	0.0291	-0.0029	0.0103	-0.0010	0.0000	0.0000	
471	-0.0005	0.0526	-0.0053	0.0004	0.0000	0.0000	0.0000	
476	-0.0003	0.0439	-0.0044	0.0279	-0.0028	0.0000	0.0000	
451	-0.0029	0.0000	0.0000	0.1224	-0.0129	0.7731	-0.0815	
456	-0.0032	0.0125	-0.0013	0.0000	0.0000	1.0810	-0.1139	
461	-0.0011	0.0555	-0.0058	0.0000	0.0000	0.4400	-0.0464	
467	-0.0004	0.0866	-0.0075	0.0000	0.0000	0.0000	0.0000	
472	-0.0005	0.1299	-0.0112	0.0180	-0.0016	0.0681	-0.0059	
477	-0.0020	0.7000	-0.0605	0.0378	-0.0033	0.0000	0.0000	
452	-0.0004	0.0943	-0.0080	0.0000	0.0000	0.0000	0.0000	
457	-0.0011	0.0068	-0.0006	0.0000	0.0000	5.2078	-0.4439	
462	-0.0011	0.1263	-0.0108	0.0345	-0.0029	0.5419	-0.0462	
468	-0.0023	0.1080	-0.0076	0.0000	0.0000	17.5409	-1.2343	
473	-0.0006	0.0477	-0.0034	0.0000	0.0000	1.8982	-0.1336	
478	-0.0009	0.1539	-0.0108	0.0000	0.0000	7.5974	-0.5346	
453	-0.0018	0.0086	-0.0006	0.0000	0.0000	8.4273	-0.5913	
458	-0.0045	0.1139	-0.0080	0.0000	0.0000	35.4451	-2.4869	
463	-0.0027	0.1658	-0.0116	0.0169	-0.0012	19.6836	-1.3810	
469	-0.0006	0.0869	-0.0063	0.0000	0.0000	3.7146	-0.2685	
474	-0.0009	0.1643	-0.0119	0.0136	-0.0010	2.7867	-0.2015	
479	-0.0018	0.2256	-0.0163	0.0004	0.0000	6.6875	-0.4835	
454	-0.0004	0.1191	-0.0084	0.0323	-0.0023	1.2828	-0.0907	
459	-0.0015	0.2212	-0.0156	0.0000	0.0000	8.6742	-0.6131	
464	-0.0005	0.0322	-0.0023	0.0000	0.0000	1.1863	-0.0838	
470	-0.0007	0.0767	-0.0087	0.0000	0.0000	0.0000	0.0000	
475	-0.0005	0.1435	-0.0162	0.0000	0.0000	0.0973	-0.0110	
480	-0.0006	0.1521	-0.0172	0.0000	0.0000	0.3453	-0.0390	
455	-0.0003	0.0049	-0.0005	0.0202	-0.0022	0.0000	0.0000	
460	-0.0007	0.2143	-0.0237	0.0000	0.0000	1.0070	-0.1112	
465	-0.0006	0.1155	-0.0127	0.0000	0.0000	0.6586	-0.0727	
496	0.0011	0.0175	0.0008	2.8187	0.1322	2.6925	0.1263	
501	0.0002	0.0075	0.0004	0.0070	0.0003	0.9199	0.0432	
506	0.0005	0.0731	0.0034	7.6151	0.3573	1.1575	0.0543	
481	0.0011	0.0000	0.0000	0.0718	0.0033	2.5991	0.1206	
486	0.0014	0.0112	0.0005	0.0000	0.0000	2.1255	0.0986	
491	0.0009	0.0000	0.0000	0.0411	0.0019	1.7790	0.0825	
497	0.0000	0.0078	0.0000	0.0000	0.0000	0.7659	0.0005	
502	0.0000	0.0092	0.0000	0.0000	0.0000	1.1695	0.0007	
507	0.0000	0.1434	0.0001	0.2829	0.0002	0.4891	0.0003	
482	0.0000	0.0073	0.0000	0.4628	0.0001	0.0739	0.0000	
487	0.0000	0.0090	0.0000	0.0000	0.0000	6.9156	0.0015	
492	0.0000	0.0180	0.0000	0.0000	0.0000	1.8180	0.0004	
498	-0.0013	0.0004	0.0000	0.0103	-0.0004	17.9483	-0.7791	
503	-0.0003	0.0015	-0.0001	0.0000	0.0000	2.1136	-0.0917	
508	-0.0005	0.0342	-0.0015	0.0000	0.0000	8.5417	-0.3708	
483	-0.0009	0.0069	-0.0003	0.0400	-0.0017	8.5079	-0.3699	

#	Sr4215	Zn2025	Zn2025	NH4-N	NH4-N	NO3-N	NO3-N	pH
	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	
488	-0.0026	0.0054	-0.0002	0.0081	-0.0004	36.5233	-1.5878	
493	-0.0016	0.0044	-0.0002	0.0597	-0.0026	21.6781	-0.9424	
499	-0.0005	0.0105	-0.0009	0.0000	0.0000	4.4783	-0.3699	
504	-0.0008	0.0349	-0.0029	0.0235	-0.0019	3.1406	-0.2594	
509	-0.0019	0.0194	-0.0016	0.0000	0.0000	7.6645	-0.6331	
484	-0.0003	0.0145	-0.0012	0.1443	-0.0119	1.6327	-0.1346	
489	-0.0015	0.0760	-0.0063	0.0000	0.0000	9.6078	-0.7921	
494	-0.0004	0.0173	-0.0014	0.0000	0.0000	1.7499	-0.1443	
500	0.0000	0.0080	-0.0009	0.0000	0.0000	0.2603	-0.0277	
505	-0.0002	0.1676	-0.0178	0.0000	0.0000	0.6495	-0.0691	
510	-0.0002	0.0127	-0.0014	0.0000	0.0000	0.7343	-0.0782	
485	-0.0001	0.0069	-0.0007	0.4310	-0.0458	0.1872	-0.0199	
490	-0.0002	0.0318	-0.0034	0.0015	-0.0002	1.4735	-0.1567	
495	-0.0002	0.0118	-0.0013	0.0000	0.0000	1.2226	-0.1300	
526	-0.0184	0.0285	-0.0154	0.5938	-0.3209	13.1659	-7.1157	
531	-0.0051	0.0604	-0.0326	0.0786	-0.0425	4.6616	-2.5194	
536	-0.0050	0.0835	-0.0451	7.5791	-4.0962	2.4099	-1.3025	
511	-0.0357	0.0000	0.0000	0.2153	-0.1159	9.2447	-4.9772	
516	-0.0294	0.0091	-0.0049	0.6644	-0.3577	8.8587	-4.7694	
521	-0.0524	0.0000	0.0000	0.6299	-0.3391	9.8687	-5.3131	
527	-0.0030	0.0051	-0.0025	0.0050	-0.0024	1.3350	-0.6590	
532	-0.0113	0.0302	-0.0149	0.1221	-0.0603	5.0012	-2.4689	
537	-0.0063	0.0216	-0.0107	1.3269	-0.6550	1.1855	-0.5852	
512	-0.0053	0.0200	-0.0099	0.1642	-0.0813	1.8749	-0.9279	
517	-0.0063	0.0096	-0.0048	0.0110	-0.0054	6.0573	-2.9979	
522	-0.0110	0.0105	-0.0052	0.1131	-0.0560	4.3758	-2.1657	
528	-0.0110	0.0019	-0.0008	0.0095	-0.0039	17.2897	-7.2163	
533	-0.0049	0.0006	-0.0003	0.6178	-0.2579	2.9590	-1.2350	
538	-0.0043	0.0495	-0.0207	0.0000	0.0000	8.8421	-3.6905	
513	-0.0081	0.0057	-0.0024	0.0605	-0.0254	6.6340	-2.7788	
518	-0.0233	0.0000	0.0000	0.0000	0.0000	33.3921	-13.9871	
523	-0.0126	0.0148	-0.0062	0.1597	-0.0669	18.6346	-7.8056	
529	-0.0021	0.0148	-0.0043	0.0000	0.0000	5.4998	-1.6092	
534	-0.0033	0.0428	-0.0125	0.3910	-0.1144	3.7155	-1.0872	
539	-0.0042	0.0416	-0.0122	0.0200	-0.0058	6.3526	-1.8588	
514	-0.0006	0.0083	-0.0024	0.0485	-0.0142	1.2011	-0.3508	
519	-0.0052	0.0631	-0.0184	0.0000	0.0000	9.4412	-2.7576	
524	-0.0011	0.0176	-0.0051	0.0080	-0.0023	1.6405	-0.4792	
530	0.0000	0.0069	-0.0011	0.0000	0.0000	0.3749	-0.0581	
535	-0.0003	0.0450	-0.0070	0.0741	-0.0115	0.5902	-0.0914	
540	-0.0003	0.0221	-0.0034	0.0000	0.0000	0.7511	-0.1163	
515	-0.0002	0.0070	-0.0011	0.0996	-0.0152	0.3604	-0.0551	
520	-0.0004	0.0293	-0.0045	0.0000	0.0000	1.4558	-0.2228	
525	-0.0004	0.0166	-0.0025	0.0215	-0.0033	1.1161	-0.1708	
556	-0.0002	0.0144	-0.0052	0.3069	-0.1102	0.0000	0.0000	

#	Sr4215	Zn2025	Zn2025	NH4-N	NH4-N	NO3-N	NO3-N	pH
	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	
561	-0.0045	0.0284	-0.0102	0.0470	-0.0169	7.9117	-2.8415	
566	-0.0074	0.0296	-0.0106	0.0921	-0.0331	7.9736	-2.8637	
541	-0.0190	0.0095	-0.0034	0.0185	-0.0066	15.9130	-5.7002	
546	-0.0215	0.0294	-0.0105	0.2153	-0.0771	18.2507	-6.5376	
551	-0.0529	0.0223	-0.0080	0.1642	-0.0588	38.3787	-13.7477	
557	-0.0070	0.0501	-0.0158	0.0816	-0.0257	1.3192	-0.4152	
562	-0.0177	0.0105	-0.0033	0.0425	-0.0134	12.7352	-4.0079	
567	-0.0023	0.0419	-0.0132	0.0395	-0.0124	1.7368	-0.5466	
542	-0.0030	0.0194	-0.0061	0.0110	-0.0034	2.8838	-0.9002	
547	-0.0044	0.0311	-0.0097	0.0080	-0.0025	7.6490	-2.3877	
552	-0.0081	0.0373	-0.0116	0.0215	-0.0067	7.1536	-2.2331	
558	-0.0038	0.1098	-0.0275	0.0260	-0.0065	8.6014	-2.1533	
563	-0.0019	0.0116	-0.0029	0.1612	-0.0404	3.0385	-0.7607	
568	-0.0069	0.0305	-0.0076	0.0455	-0.0114	13.5336	-3.3881	
543	-0.0046	0.0218	-0.0054	0.0065	-0.0016	6.5524	-1.6326	
548	-0.0147	0.0157	-0.0039	0.0275	-0.0068	35.0145	-8.7242	
553	-0.0075	0.0620	-0.0154	0.1086	-0.0271	18.5372	-4.6187	
559	-0.0020	0.0353	-0.0062	0.0215	-0.0038	5.1422	-0.9046	
564	-0.0024	0.0493	-0.0087	0.0650	-0.0114	5.9958	-1.0548	
569	-0.0027	0.1053	-0.0185	0.0846	-0.0149	8.4373	-1.4843	
544	-0.0008	0.0503	-0.0087	0.0620	-0.0107	2.4182	-0.4173	
549	-0.0029	0.1118	-0.0193	0.0110	-0.0019	10.3622	-1.7880	
554	-0.0009	0.0684	-0.0118	0.0335	-0.0058	2.1887	-0.3777	
560	-0.0006	0.0323	-0.0054	0.0275	-0.0046	1.4958	-0.2507	
565	-0.0008	0.0310	-0.0052	0.0140	-0.0023	2.2487	-0.3769	
570	-0.0001	0.0815	-0.0137	0.0410	-0.0069	0.5076	-0.0851	
545	0.0000	0.0200	-0.0033	0.0861	-0.0141	0.4262	-0.0697	
550	-0.0005	0.0405	-0.0066	0.0000	0.0000	1.6241	-0.2658	
555	-0.0008	0.0779	-0.0127	0.0185	-0.0030	1.9573	-0.3203	
586	-0.0339	0.0076	-0.0134	0.0000	0.0000	9.2815	-16.3896	
591	-0.0155	0.0197	-0.0348	0.0000	0.0000	5.5720	-9.8392	
596	-0.0058	0.0182	-0.0321	0.0000	0.0000	0.6194	-1.0938	
571	-0.0781	0.0000	0.0000	0.0771	-0.1361	12.0095	-21.2107	
576	-0.0770	0.0366	-0.0646	0.0260	-0.0459	16.0078	-28.2723	
581	-0.0765	0.0000	0.0000	0.0485	-0.0857	14.4488	-25.5189	
587	-0.0082	0.0142	-0.0252	0.0000	0.0000	1.1707	-2.0803	
592	-0.0936	0.0000	0.0000	0.0000	0.0000	12.3368	-21.9226	
597	-0.0123	0.0204	-0.0363	0.0000	0.0000	1.3908	-2.4715	
572	-0.0551	0.0000	0.0000	0.0305	-0.0541	7.7448	-13.7302	
577	-0.0307	0.0012	-0.0021	0.0000	0.0000	7.7968	-13.8224	
582	-0.0480	0.0291	-0.0516	0.0425	-0.0754	7.5164	-13.3253	
588	-0.0323	0.0000	0.0000	0.0000	0.0000	10.2223	-18.1212	
593	-0.0144	0.0034	-0.0060	0.0164	-0.0290	3.1870	-5.6496	
598	-0.0145	0.0642	-0.1138	0.0000	0.0000	5.5796	-9.8910	
573	-0.0251	0.0032	-0.0057	0.0305	-0.0540	4.6156	-8.1668	
578	-0.0812	0.0000	0.0000	0.0245	-0.0433	21.5374	-38.1081	

#	Sr4215	Zn2025	Zn2025	NH4-N	NH4-N	NO3-N	NO3-N	pH
	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	
583	-0.0419	0.2476	-0.4381	0.1807	-0.3198	12.5062	-22.1284	
589	-0.0097	0.0115	-0.0198	0.0000	0.0000	3.9714	-6.8454	
594	-0.0084	0.0260	-0.0448	0.0000	0.0000	2.1638	-3.7297	
599	-0.0160	0.0350	-0.0603	0.0000	0.0000	4.1111	-7.0862	
574	-0.0163	0.0054	-0.0093	0.0000	0.0000	3.8869	-6.6783	
579	-0.0241	0.0666	-0.1144	0.0005	-0.0008	7.8942	-13.5634	
584	-0.0153	0.0192	-0.0330	0.0110	-0.0188	3.2502	-5.5843	
590	-0.0005	0.0140	-0.0220	0.0000	0.0000	0.0000	0.0000	
595	-0.0024	0.0344	-0.0542	0.0000	0.0000	0.4484	-0.7061	
600	-0.0028	0.0238	-0.0375	0.0000	0.0000	0.6292	-0.9908	
575	-0.0006	0.0086	-0.0134	0.0696	-0.1086	0.3408	-0.5321	
580	-0.0058	0.0220	-0.0343	0.0000	0.0000	1.2078	-1.8858	
585	-0.0039	0.0153	-0.0239	0.0000	0.0000	1.0079	-1.5737	
616	-0.0014	0.0073	-0.0006	0.0000	0.0000		0.0000	
621	-0.0006	0.0222	-0.0020	0.0000	0.0000	5.1255	-0.4523	
626	-0.0002	0.0368	-0.0032	0.0207	-0.0018	0.0000	0.0000	
601	-0.0023	0.0023	-0.0002	0.0605	-0.0055	9.2813	-0.8372	
606	-0.0014	0.0404	-0.0036	0.0000	0.0000	8.6289	-0.7783	
611	-0.0017	0.0037	-0.0003	0.0000	0.0000	8.3023	-0.7489	
617	-0.0011	0.0218	-0.0026	0.0000	0.0000	3.3344	-0.3953	
622	-0.0042	0.0098	-0.0012	0.0000	0.0000	12.2464	-1.4517	
627	-0.0007	0.0320	-0.0038	0.0153	-0.0018	0.3528	-0.0418	
602	-0.0018	0.0110	-0.0013	0.0000	0.0000	4.8563	-0.5820	
607	-0.0020	0.0228	-0.0027	0.0000	0.0000	8.5464	-1.0243	
612	-0.0024	0.0156	-0.0019	0.0000	0.0000	6.1454	-0.7365	
618	-0.0033	0.0027	-0.0005	0.0000	0.0000	11.0212	-2.0012	
623	-0.0016	0.0105	-0.0019	0.0000	0.0000	4.3843	-0.7961	
628	-0.0013	0.0218	-0.0040	0.0000	0.0000	5.8675	-1.0654	
603	-0.0033	0.0124	-0.0023	0.0000	0.0000	4.7879	-0.8713	
608	-0.0073	0.4623	-0.0841	0.0000	0.0000	18.4778	-3.3628	
613	-0.0037	0.1899	-0.0346	0.0164	-0.0030	10.3143	-1.8771	
619	-0.0033	0.0228	-0.0068	0.0000	0.0000	7.0478	-2.0996	
624	-0.0029	0.0853	-0.0254	0.0000	0.0000	3.8163	-1.1369	
629	-0.0044	0.0243	-0.0072	0.0000	0.0000	6.6292	-1.9749	
604	-0.0017	0.0230	-0.0069	0.0000	0.0000	2.7176	-0.8111	
609	-0.0053	0.0677	-0.0202	0.0000	0.0000	8.3958	-2.5058	
614	-0.0012	0.0259	-0.0077	0.0000	0.0000		0.0000	
620	-0.0002	0.0150	-0.0067	0.0000	0.0000	0.0000	0.0000	
625	-0.0007	0.0778	-0.0347	0.0000	0.0000	0.3555	-0.1588	
630	-0.0006	0.0279	-0.0125	0.0000	0.0000	0.3877	-0.1732	
605	-0.0103	0.0143	-0.0064	0.0000	0.0000	0.0000	0.0000	
610	-0.0009	0.0242	-0.0108	0.0000	0.0000	1.2722	-0.5694	
615	-0.0007	0.0235	-0.0105	0.0000	0.0000		0.0000	
646	-0.0133	0.0000	0.0000	0.0368	-0.0286	11.4418	-8.8935	
651	-0.0046	0.0176	-0.0137	0.0045	-0.0035	5.5097	-4.2826	
656	-0.0010	0.0132	-0.0103	0.0000	0.0000	0.0629	-0.0489	

#	Sr4215	Zn2025	Zn2025	NH4-N	NH4-N	NO3-N	NO3-N	pH
	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	
631	-0.0186	0.0012	-0.0009	0.0000	0.0000	10.8029	-8.2944	
636	-0.0160	0.0498	-0.0382	0.0000	0.0000	15.7699	-12.1080	
641	-0.0134	0.0058	-0.0045	0.0000	0.0000	9.9669	-7.6525	
647	-0.0084	0.0039	-0.0026	0.0000	0.0000	5.0630	-3.4372	
652	-0.0212	0.0152	-0.0103	0.0153	-0.0104	14.7546	-10.0167	
657	-0.0045	0.0094	-0.0064	0.0000	0.0000	0.8628	-0.5857	
632	-0.0123	0.0120	-0.0081	0.0000	0.0000	7.9530	-5.3884	
637	-0.0111	0.0031	-0.0021	0.0000	0.0000	10.8144	-7.3271	
642	-0.0234	0.0169	-0.0115	0.0131	-0.0089	12.9250	-8.7571	
648	-0.0096	0.0000	0.0000	0.0024	-0.0012	12.5169	-6.3035	
653	-0.0047	0.0050	-0.0025	0.0000	0.0000	3.6331	-1.8296	
658	-0.0031	0.0546	-0.0275	0.0000	0.0000	4.6083	-2.3207	
633	-0.0083	0.0048	-0.0024	0.0000	0.0000	5.4368	-2.7743	
638	-0.0188	0.0000	0.0000	0.0000	0.0000	20.2116	-10.3137	
643	-0.0093	0.2396	-0.1223	0.0000	0.0000	11.9417	-6.0937	
649	-0.0024	0.0143	-0.0035	0.0034	-0.0008	7.0445	-1.7297	
654	-0.0029	0.0329	-0.0081	0.0000	0.0000	3.2770	-0.8046	
659	-0.0044	0.0191	-0.0047	0.0000	0.0000	5.7262	-1.4060	
634	-0.0015	0.0094	-0.0023	0.0000	0.0000	3.1074	-0.7698	
639	-0.0040	0.0864	-0.0214	0.0000	0.0000	10.1073	-2.5040	
644	-0.0016	0.0154	-0.0038	0.1348	-0.0334	3.0278	-0.7501	
650	-0.0001	0.0096	-0.0018	0.0000	0.0000	0.0000	0.0000	
655	-0.0003	0.0219	-0.0042	0.0000	0.0000	0.3525	-0.0668	
660	-0.0005	0.0139	-0.0026	0.0000	0.0000	0.4519	-0.0857	
635	-0.0002	0.0096	-0.0018	0.0000	0.0000	0.0000	0.0000	
640	-0.0004	0.0267	-0.0051	0.0000	0.0000	1.1171	-0.2120	
645	-0.0004	0.0474	-0.0090	0.0000	0.0000	0.7878	-0.1495	
676	-0.0055	0.0256	-0.0064	0.0000	0.0000	9.9842	-2.5000	
681	-0.0013	0.0145	-0.0036	0.0000	0.0000	3.0308	-0.7589	
686	0.0000	0.0114	-0.0029	0.0000	0.0000	0.1449	-0.0363	
661	-0.0036	0.0064	-0.0018	0.0034	-0.0010	3.6467	-1.0236	
666	-0.0074	0.0957	-0.0269	0.0000	0.0000	13.4961	-3.7881	
671	-0.0043	0.0065	-0.0018	0.0169	-0.0047	6.1970	-1.7394	
677	-0.0045	0.0000	0.0000	0.0000	0.0000	5.6338	-1.4137	
682	-0.0052	0.0085	-0.0021	0.0000	0.0000	9.3250	-2.3400	
687	-0.0027	0.1081	-0.0271	0.0232	-0.0058	1.4388	-0.3611	
662	-0.0043	0.0104	-0.0022	0.0487	-0.0103	6.5095	-1.3752	
667	-0.0038	0.0060	-0.0013	0.0000	0.0000	9.6789	-2.0447	
672	-0.0062	0.0267	-0.0056	0.0570	-0.0120	8.4478	-1.7846	
678	-0.0068	0.0021	-0.0006	0.0000	0.0000	9.8696	-2.9316	
683	-0.0030	0.0440	-0.0131	0.0095	-0.0028	3.7315	-1.1084	
688	-0.0022	0.0447	-0.0133	0.0000	0.0000	4.6575	-1.3834	
663	-0.0042	0.0082	-0.0020	0.0000	0.0000	4.6223	-1.1368	
668	-0.0092	0.0089	-0.0022	0.0000	0.0000	15.3213	-3.7683	
673	-0.0043	0.1017	-0.0250	0.0770	-0.0189	8.8184	-2.1689	
679	-0.0065	0.0165	-0.0083	0.0000	0.0000	7.0718	-3.5718	

#	Sr4215	Zn2025	Zn2025	NH4-N	NH4-N	NO3-N	NO3-N	pH
	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	
684				0.1277	-0.0645	2.1900	-1.1061	
689	-0.0085	0.0322	-0.0163	0.0000	0.0000	5.4080	-2.7314	
664	-0.0031	0.0201	-0.0090	0.0000	0.0000	2.5786	-1.1487	
669	-0.0072	0.0709	-0.0316	0.0000	0.0000	7.8566	-3.5000	
674	-0.0016	0.0243	-0.0108	0.0116	-0.0052	1.2314	-0.5486	
680	-0.0017	0.0091	-0.0049	0.0000	0.0000	0.1084	-0.0580	
685	-0.0006	0.0353	-0.0189	0.0253	-0.0135	0.4424	-0.2366	
690	-0.0010	0.0128	-0.0068	0.0000	0.0000	0.4262	-0.2279	
665	-0.0003	0.0058	-0.0031	0.0000	0.0000	0.0000	0.0000	
670	-0.0014	0.0776	-0.0411	0.0296	-0.0157	1.3171	-0.6983	
675	-0.0015	0.0127	-0.0067	0.0116	-0.0062	0.7853	-0.4163	
706	-0.0029	0.0705	-0.0171	0.3504	-0.0850	1.4276	-0.3462	
711	-0.0016	0.0233	-0.0057	0.0000	0.0000	4.6140	-1.1191	
716	-0.0004	0.0222	-0.0054	0.0264	-0.0064	0.1499	-0.0364	
691	-0.0050	0.0009	-0.0002	0.0000	0.0000	10.8611	-2.6257	
696	-0.0027	0.0391	-0.0095	0.0042	-0.0010	6.3315	-1.5307	
701	-0.0034	0.0410	-0.0099	0.0000	0.0000	5.5895	-1.3513	
707	-0.0044	0.0287	-0.0064	0.1214	-0.0271	6.5112	-1.4535	
712	-0.0076	0.1228	-0.0274	0.1383	-0.0309	14.3272	-3.1983	
717	-0.0014	0.0176	-0.0039	0.0190	-0.0042	0.5836	-0.1303	
692	-0.0034	0.0001	0.0000	0.0000	0.0000	6.7049	-1.2758	
697	-0.0040	0.0192	-0.0037	0.0000	0.0000	11.0123	-2.0955	
702	-0.0045	0.0532	-0.0101	0.0000	0.0000	6.8685	-1.3070	
708	-0.0035	0.0104	-0.0022	0.0158	-0.0034	4.6195	-0.9818	
713	-0.0023	0.0047	-0.0010	0.0000	0.0000	3.9663	-0.8430	
718	-0.0015	0.0374	-0.0079	0.0538	-0.0114	4.4920	-0.9547	
693	-0.0039	0.0067	-0.0014	0.0000	0.0000	9.4730	-1.9231	
698	-0.0070	0.0224	-0.0045	0.0000	0.0000	14.4360	-2.9306	
703	-0.0033	0.1176	-0.0239	0.0306	-0.0062	8.7768	-1.7817	
709	-0.0014	0.0173	-0.0038	0.1414	-0.0311	2.2110	-0.4868	
714	-0.0018	0.0509	-0.0112	0.0137	-0.0030	1.9383	-0.4268	
719	-0.0041	0.0178	-0.0039	0.0042	-0.0009	5.5842	-1.2295	
694	-0.0028	0.0201	-0.0044	0.0063	-0.0014	7.6745	-1.6614	
699	-0.0038	0.0608	-0.0132	0.0000	0.0000	8.1149	-1.7567	
704	-0.0011	0.0144	-0.0031	0.0000	0.0000	1.4210	-0.3076	
710	-0.0004	0.0072	-0.0019	0.0000	0.0000	0.1223	-0.0319	
715	-0.0007	0.0334	-0.0087	0.0000	0.0000	0.3630	-0.0948	
720	-0.0006	0.0155	-0.0040	0.0348	-0.0091	0.4656	-0.1216	
695	-0.0002	0.0147	-0.0038	0.0106	-0.0027	0.1279	-0.0327	
700	-0.0008	0.0380	-0.0097	0.0000	0.0000	1.1041	-0.2824	
705	-0.0008	0.0154	-0.0039	0.0000	0.0000	0.8124	-0.2078	
736	-0.0088	0.0000	0.0000	0.0000	0.0000	12.2992	-4.5498	
741	-0.0031	0.0269	-0.0100	0.0000	0.0000	6.3894	-2.3636	
746	-0.0009	0.0137	-0.0051	0.0198	-0.0073	1.3307	-0.4923	
721	-0.0039	0.0096	-0.0036	0.1720	-0.0647	0.4518	-0.1699	
726	-0.0037	0.0264	-0.0099	0.0327	-0.0123	5.1937	-1.9533	

#	Sr4215	Zn2025	Zn2025	NH4-N	NH4-N	NO3-N	NO3-N	pH
	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	
731	-0.0032	0.0063	-0.0024	0.1594	-0.0599	4.0943	-1.5398	
737	-0.0078	0.0000	0.0000	0.0000	0.0000	7.8553	-3.2185	
742	-0.0070	0.0360	-0.0147	0.0380	-0.0156	8.8766	-3.6369	
747	-0.0027	0.0135	-0.0055	0.0250	-0.0103	0.5430	-0.2225	
722	-0.0076	0.0197	-0.0080	0.0549	-0.0223	6.6469	-2.7018	
727	-0.0081	0.0057	-0.0023	0.0517	-0.0210	10.6091	-4.3124	
732	-0.0076	0.0213	-0.0087	0.1361	-0.0553	5.9469	-2.4173	
738	-0.0078	0.0243	-0.0100	0.0496	-0.0204	8.7969	-3.6119	
743	-0.0044	0.0022	-0.0009	0.0876	-0.0360	4.0008	-1.6427	
748	-0.0028	0.0123	-0.0051	0.0106	-0.0044	4.2390	-1.7405	
723	-0.0071	0.0082	-0.0034	0.0000	0.0000	4.7367	-1.9355	
728	-0.0136	0.0077	-0.0031	0.1256	-0.0513	13.9530	-5.7015	
733	-0.0062	0.1245	-0.0509	0.0612	-0.0250	7.9607	-3.2529	
739	-0.0037	0.0145	-0.0040	0.0675	-0.0186	7.5206	-2.0727	
744	-0.0036	0.0347	-0.0096	0.0063	-0.0017	3.4895	-0.9617	
749	-0.0053	0.0109	-0.0030	0.0172	-0.0047	5.5325	-1.5248	
724	-0.0017	0.0168	-0.0046	0.1520	-0.0418	2.1016	-0.5780	
729	-0.0046	0.0532	-0.0146	0.0749	-0.0206	8.0452	-2.2126	
734	-0.0012	0.0128	-0.0035	0.0000	0.0000	1.2282	-0.3378	
740	-0.0004	0.0087	-0.0019	0.0000	0.0000	0.1369	-0.0298	
745	-0.0005	0.0859	-0.0187	0.0000	0.0000	0.3732	-0.0813	
750	-0.0006	0.0157	-0.0034	0.0145	-0.0032	0.5206	-0.1134	
725	-0.0004	0.0046	-0.0010	0.0306	-0.0066	0.1220	-0.0265	
730	-0.0008	0.0319	-0.0069	0.0391	-0.0085	1.0423	-0.2264	
735	-0.0007	0.0170	-0.0037	0.0000	0.0000	0.7785	-0.1691	
766	-0.0033	0.0000	0.0000	0.0000	0.0000	14.7329	-1.7830	
771	-0.0007	0.0177	-0.0021	0.0000	0.0000	3.7252	-0.4508	
776	-0.0004	0.0129	-0.0016	0.0303	-0.0037	1.9069	-0.2308	
751	-0.0015	0.0295	-0.0035	0.1914	-0.0230	2.5906	-0.3115	
756	-0.0008	0.0226	-0.0027	0.0211	-0.0025	3.2484	-0.3906	
761	-0.0012	0.0087	-0.0010	0.1036	-0.0125	3.2571	-0.3917	
767	-0.0022	0.0378	-0.0049	0.0000	0.0000	8.3230	-1.0878	
772	-0.0012	0.0090	-0.0012	0.0000	0.0000	4.6330	-0.6055	
777	-0.0009	0.0137	-0.0018	0.1599	-0.0209	0.9052	-0.1183	
752	-0.0022	0.0110	-0.0014	0.0827	-0.0108	6.3562	-0.8304	
757	-0.0023	0.0060	-0.0008	0.0172	-0.0022	11.1803	-1.4606	
762	-0.0038	0.0242	-0.0032	0.0434	-0.0057	6.2799	-0.8204	
768	-0.0028	0.0063	-0.0010	0.0000	0.0000	8.9715	-1.3944	
773	-0.0018	0.0048	-0.0007	0.0000	0.0000	4.1651	-0.6474	
778	-0.0007	0.0192	-0.0030	0.0198	-0.0031	4.1510	-0.6452	
753	-0.0025	0.0083	-0.0013	0.0551	-0.0085	4.4517	-0.6895	
758	-0.0051	0.0124	-0.0019	0.0211	-0.0033	14.2288	-2.2038	
763	-0.0044	0.1553	-0.0241	0.1233	-0.0191	8.3543	-1.2939	
769	-0.0030	0.0125	-0.0029	0.0000	0.0000	7.7783	-1.7982	
774	-0.0031	0.0355	-0.0082	0.0000	0.0000	3.7242	-0.8609	
779	-0.0043	0.0106	-0.0025	0.0303	-0.0070	5.6161	-1.2983	

#	Sr4215	Zn2025	Zn2025	NH4-N	NH4-N	NO3-N	NO3-N	pH
	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	
754	-0.0013	0.0179	-0.0041	0.1311	-0.0302	2.0311	-0.4679	
759	-0.0037	0.0648	-0.0149	0.0211	-0.0049	8.4105	-1.9373	
764	-0.0014	0.0122	-0.0028	0.0303	-0.0070	1.1917	-0.2745	
770	-0.0004	0.0141	-0.0047	0.0000	0.0000	0.1509	-0.0499	
775	-0.0002	0.0373	-0.0123	0.0486	-0.0161	0.3573	-0.1181	
780	-0.0005	0.0125	-0.0041	0.0250	-0.0083	0.4755	-0.1572	
755	-0.0002	0.0046	-0.0015	0.0420	-0.0139	0.0000	0.0000	
760	-0.0011	0.0837	-0.0276	0.0303	-0.0100	1.0409	-0.3433	
765	-0.0011	0.0097	-0.0032	0.0000	0.0000	0.8327	-0.2747	
802	0.0006	0.1895	0.0061	0.3460	0.0111	7.1015	0.2272	
782	0.0008	0.1408	0.0045	0.2949	0.0094	8.6307	0.2743	
798	0.0000	0.0249	0.0000	0.1206	0.0000	8.8701	0.0011	
803	0.0000	0.0105	0.0000	0.0473	0.0000	4.6197	0.0006	
808	0.0000	0.0678	0.0000	0.0761	0.0000	4.2111	0.0005	
783	0.0000	0.0320	0.0000	0.0892	0.0001	4.8538	0.0040	
788	0.0000	0.1262	0.0001	0.0984	0.0001	13.9379	0.0114	
793	0.0000	0.7492	0.0006	0.3315	0.0003	11.1174	0.0091	
799	-0.0006	0.0181	-0.0007	0.0041	-0.0002	8.0502	-0.3317	
804	-0.0005	0.0361	-0.0015	0.0565	-0.0023	3.2857	-0.1354	
809	-0.0009	0.0093	-0.0004	0.0342	-0.0014	5.7840	-0.2383	
784	-0.0002	0.0180	-0.0007	0.0656	-0.0026	1.4929	-0.0592	
789	-0.0008	0.0629	-0.0025	0.0682	-0.0027	8.8182	-0.3498	
794	-0.0002	0.0148	-0.0006	0.0368	-0.0015	1.2544	-0.0498	
800	-0.0003	0.0102	-0.0016	0.0460	-0.0070	0.1429	-0.0219	
805	-0.0004	0.0259	-0.0040	0.0499	-0.0076	0.3379	-0.0517	
810	-0.0004	0.0093	-0.0014	0.0460	-0.0070	0.4704	-0.0720	
785	-0.0001	0.0060	-0.0009	0.0263	-0.0039	0.1686	-0.0253	
790	-0.0005	0.0328	-0.0049	0.0447	-0.0067	1.0670	-0.1600	
795	-0.0005	0.0103	-0.0015	0.0394	-0.0059	0.8495	-0.1274	
829	0.0001	0.0239	0.0002	0.0669	0.0005	9.5428	0.0741	
834	0.0001	0.1217	0.0009	0.1075	0.0008	3.6305	0.0282	
839	0.0002	0.0377	0.0003	0.0813	0.0006	8.1186	0.0631	
814	0.0001	0.0667	0.0005	0.1390	0.0011	1.9749	0.0155	
819	0.0002	0.2532	0.0020	0.1036	0.0008	8.1517	0.0639	
824	0.0000	0.0531	0.0004	0.0696	0.0005	1.4353	0.0112	
830	-0.0001	0.0146	-0.0011	0.0224	-0.0017	0.0886	-0.0069	
835	-0.0003	0.3871	-0.0300	0.1036	-0.0080	0.5766	-0.0448	
840	-0.0002	0.0152	-0.0012	0.0460	-0.0036	0.6475	-0.0503	
815	-0.0001	0.0197	-0.0015	0.0525	-0.0040	0.0000	0.0000	
820	-0.0003	0.0528	-0.0040	0.0486	-0.0037	1.2138	-0.0921	
825	-0.0003	0.0380	-0.0029	0.0748	-0.0057	0.8994	-0.0682	
859	0.0003	0.0321	0.0006	0.0643	0.0013	10.6747	0.2119	

#	Sr4215	Zn2025	Zn2025	NH4-N	NH4-N	NO3-N	NO3-N	pH
	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	
860	-0.0001	0.0282	-0.0014	0.0538	-0.0027	0.3650	-0.0185	
870	-0.0002	0.0984	-0.0050	0.1377	-0.0070	1.0245	-0.0520	
845	0.0000	0.0231	-0.0011	0.1023	-0.0051	0.3200	-0.0159	
850	-0.0002	0.0968	-0.0048	0.0709	-0.0035	1.5208	-0.0755	
855	-0.0001	0.0315	-0.0016	0.0486	-0.0024	0.6292	-0.0313	
889	0.0000	0.1356	0.0000	0.1141	0.0000	7.5205	0.0000	
899	0.0000	0.8751	0.0000	0.2477	0.0000	11.0392	0.0000	
890	0.0000	0.0269	0.0000	0.0761	0.0000	0.0619	0.0000	
900	0.0000	0.1364	0.0000	0.0774	0.0000	0.8003	0.0000	
875	0.0000	0.0360	0.0000	0.0696	0.0000	0.3146	0.0000	
880	0.0000	0.0975	0.0000	0.0722	0.0000	1.5987	0.0000	

Table C3. Table A2. ICP and inorganic nitrogen results for 2006 for samples from suction cup lysimeters. “T”: 20 t biochar ha⁻¹, “C” 20 t biochar ha⁻¹. Negative fluxes indicate downward movement.

year	date	rep	trt	depth	flux	Al3961	Al3961	As1890	As1890	B_2496
				cm	L/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	21-Apr	1	C	15	-78048.84	0.0000	0.0000	0.0000	0.0000	0.0000
2006	21-Apr	2	C	15	-78048.84	0.4674	-0.0365	0.0002	0.0000	0.0316
2006	21-Apr	3	C	15	-78048.84	0.3079	-0.0240	0.0000	0.0000	0.0372
2006	21-Apr	1	T	15	-71303.00	0.0079	-0.0006	0.0040	-0.0003	0.0962
2006	21-Apr	2	T	15	-71303.00	0.4762	-0.0340	0.0000	0.0000	0.0229
2006	21-Apr	3	T	15	-71303.00	0.0000	0.0000	0.0000	0.0000	0.0000
2006	21-Apr	1	C	30	-41568.92	0.1335	-0.0055	0.0000	0.0000	0.0229
2006	21-Apr	2	C	30	-41568.92	0.0007	0.0000	0.0000	0.0000	0.0288
2006	21-Apr	3	C	30	-41568.92					
2006	21-Apr	1	T	30	-36819.46	0.0005	0.0000	0.0000	0.0000	0.0055
2006	21-Apr	2	T	30	-36819.46					
2006	21-Apr	3	T	30	-36819.46	0.0391	-0.0014	0.0045	-0.0002	0.0562
2006	21-Apr	1	C	60	-21996.94					
2006	21-Apr	2	C	60	-21996.94	0.0432	-0.0010	0.0000	0.0000	0.0000
2006	21-Apr	3	C	60	-21996.94	1.3506	-0.0297	0.0000	0.0000	0.0138
2006	27-Apr	1	C	15	-1152331.48	0.0000	0.0000	0.0000	0.0000	0.0000
2006	27-Apr	2	C	15	-1152331.48	0.7298	-0.8409	0.0021	-0.0024	0.0287
2006	27-Apr	3	C	15	-1152331.48	0.7872	-0.9071	0.0000	0.0000	0.0421
2006	27-Apr	1	T	15	-1139559.06	0.0073	-0.0083	0.0000	0.0000	0.0290
2006	27-Apr	2	T	15	-1139559.06	0.3559	-0.4055	0.0000	0.0000	0.0303
2006	27-Apr	3	T	15	-1139559.06	0.0087	-0.0100	0.0000	0.0000	0.0000

year	date	rep	trt	depth	flux	Al3961	Al3961	As1890	As1890	B_2496
				cm	L/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	27-Apr	1	C	30	-1084218.96	0.2800	-0.3036	0.0000	0.0000	0.0136
2006	27-Apr	2	C	30	-1084218.96	0.0091	-0.0099	0.0000	0.0000	0.0081
2006	27-Apr	3	C	30	-1084218.96	1.7797	-1.9296	0.0000	0.0000	0.0407
2006	27-Apr	1	T	30	-1062263.78	0.0037	-0.0039	0.0002	-0.0002	0.0083
2006	27-Apr	2	T	30	-1062263.78	4.5916	-4.8775	0.0008	-0.0009	0.0331
2006	27-Apr	3	T	30	-1062263.78	0.6058	-0.6435	0.0000	0.0000	0.0041
2006	27-Apr	1	C	60	-907559.69	1.3947	-1.2658	0.0000	0.0000	0.0000
2006	27-Apr	2	C	60	-907559.69	0.0214	-0.0194	0.0007	-0.0006	0.0000
2006	27-Apr	3	C	60	-907559.69	1.2020	-1.0908	0.0000	0.0000	0.0000
2006	27-Apr	1	T	60	-802956.58	0.0228	-0.0183	0.0000	0.0000	0.0248
2006	27-Apr	2	T	60	-802956.58	5.3454	-4.2921	0.0102	-0.0082	0.0115
2006	27-Apr	3	T	60	-802956.58	1.3699	-1.1000	0.0000	0.0000	0.0014
2006	27-Apr	1	C	120	-388898.70	0.4027	-0.1566	0.0000	0.0000	0.0054
2006	27-Apr	2	C	120	-388898.70	0.3977	-0.1547	0.0000	0.0000	0.0000
2006	27-Apr	3	C	120	-388898.70	1.1132	-0.4329	0.0000	0.0000	0.0000
2006	27-Apr	1	T	120	-142418.77	0.1456	-0.0207	0.0000	0.0000	0.0000
2006	27-Apr	2	T	120	-142418.77					
2006	27-Apr	3	T	120	-142418.77	0.0316	-0.0045	0.0000	0.0000	0.0000
2006	27-Apr	1	C	200	-3317.08	0.0318	-0.0001	0.0004	0.0000	0.0000
2006	27-Apr	2	C	200	-3317.08	0.0153	-0.0001	0.0035	0.0000	0.0414
2006	27-Apr	3	C	200	-3317.08	0.0213	-0.0001	0.0000	0.0000	0.0128
2006	27-Apr	1	T	200	-2105.77	0.0046	0.0000	0.0000	0.0000	0.0172
2006	27-Apr	2	T	200	-2105.77					
2006	27-Apr	3	T	200	-2105.77	0.0248	-0.0001	0.0000	0.0000	0.0285
2006	4-May	1	C	15	-459871.04	0.0081	-0.0037	0.0000	0.0000	0.0000
2006	4-May	2	C	15	-459871.04	0.8823	-0.4058	0.0000	0.0000	0.0253
2006	4-May	3	C	15	-459871.04	1.2924	-0.5943	0.0000	0.0000	0.0000
2006	4-May	1	T	15	-490492.72	0.2198	-0.1078	0.0000	0.0000	0.0563
2006	4-May	2	T	15	-490492.72	0.4952	-0.2429	0.0000	0.0000	0.0765
2006	4-May	3	T	15	-490492.72	0.3789	-0.1859	0.0048	-0.0023	0.0338
2006	4-May	1	C	30	-457233.30	0.6338	-0.2898	0.0000	0.0000	0.0000
2006	4-May	2	C	30	-457233.30	0.0363	-0.0166	0.0000	0.0000	0.0000
2006	4-May	3	C	30	-457233.30	2.5923	-1.1853	0.0000	0.0000	0.0000
2006	4-May	1	T	30	-476534.97	0.0227	-0.0108	0.0000	0.0000	0.0113
2006	4-May	2	T	30	-476534.97	5.3868	-2.5670	0.0006	-0.0003	0.0155
2006	4-May	3	T	30	-476534.97	0.5118	-0.2439	0.0003	-0.0001	0.0000
2006	4-May	1	C	60	-456866.31	1.2631	-0.5771	0.0000	0.0000	0.0476
2006	4-May	2	C	60	-456866.31	0.0273	-0.0125	0.0000	0.0000	0.0045
2006	4-May	3	C	60	-456866.31	1.1535	-0.5270	0.0000	0.0000	0.0030
2006	4-May	1	T	60	-458820.95	0.3743	-0.1717	0.0000	0.0000	0.0000
2006	4-May	2	T	60	-458820.95	6.5097	-2.9868	0.0000	0.0000	0.0056
2006	4-May	3	T	60	-458820.95	2.0006	-0.9179	0.0019	-0.0009	0.0000
2006	4-May	1	C	120	-437503.98	0.4517	-0.1976	0.0000	0.0000	0.0268
2006	4-May	2	C	120	-437503.98	0.2195	-0.0960	0.0000	0.0000	0.0000
2006	4-May	3	C	120	-437503.98	1.1087	-0.4850	0.0000	0.0000	0.0000
2006	4-May	1	T	120	-426892.08	0.1766	-0.0754	0.0000	0.0000	0.0000

year	date	rep	trt	depth	flux	Al3961	Al3961	As1890	As1890	B_2496
				cm	L/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	4-May	2	T	120	-426892.08					
2006	4-May	3	T	120	-426892.08	0.1293	-0.0552	0.0019	-0.0008	0.0000
2006	4-May	1	C	200	-85273.16	0.0059	-0.0005	0.0000	0.0000	0.0045
2006	4-May	2	C	200	-85273.16	0.0297	-0.0025	0.0005	0.0000	0.0000
2006	4-May	3	C	200	-85273.16	0.0177	-0.0015	0.0000	0.0000	0.0000
2006	4-May	1	T	200	-2911.95	0.0000	0.0000	0.0000	0.0000	0.0169
2006	4-May	2	T	200	-2911.95					
2006	4-May	3	T	200	-2911.95	0.0524	-0.0002	0.0000	0.0000	0.0234
2006	12-May	1	C	15	-873622.51	0.0155	-0.0135	0.0000	0.0000	0.0000
2006	12-May	2	C	15	-873622.51	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	3	C	15	-873622.51	1.4783	-1.2915	0.0000	0.0000	0.0000
2006	12-May	1	T	15	-870502.70	2.6973	-2.3480	0.0000	0.0000	0.2776
2006	12-May	2	T	15	-870502.70	0.7104	-0.6184	0.0000	0.0000	0.0531
2006	12-May	3	T	15	-870502.70	1.2419	-1.0811	0.0000	0.0000	0.0318
2006	12-May	1	C	30	-866636.33	0.5537	-0.4799	0.0000	0.0000	0.0000
2006	12-May	2	C	30	-866636.33	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	3	C	30	-866636.33	3.5192	-3.0499	0.0062	-0.0054	0.0000
2006	12-May	1	T	30	-869998.99	0.3295	-0.2866	0.0000	0.0000	0.0166
2006	12-May	2	T	30	-869998.99	5.1906	-4.5159	0.0005	-0.0004	0.0373
2006	12-May	3	T	30	-869998.99	0.4691	-0.4081	0.0000	0.0000	0.0069
2006	12-May	1	C	60	-869207.92	1.5006	-1.3044	0.0000	0.0000	0.0145
2006	12-May	2	C	60	-869207.92	0.4375	-0.3803	0.0000	0.0000	0.0000
2006	12-May	3	C	60	-869207.92	1.0718	-0.9316	0.0000	0.0000	0.0000
2006	12-May	1	T	60	-864906.52	0.4955	-0.4286	0.0000	0.0000	0.0000
2006	12-May	2	T	60	-864906.52	6.6161	-5.7223	0.0000	0.0000	0.0000
2006	12-May	3	T	60	-864906.52	1.5471	-1.3381	0.0000	0.0000	0.0138
2006	12-May	1	C	120	-882815.32	0.4982	-0.4398	0.0000	0.0000	0.0000
2006	12-May	2	C	120	-882815.32					
2006	12-May	3	C	120	-882815.32	1.1371	-1.0038	0.0000	0.0000	0.0333
2006	12-May	1	T	120	-912501.95	0.1566	-0.1429	0.0000	0.0000	0.0331
2006	12-May	2	T	120	-912501.95	1.2768	-1.1651	0.0000	0.0000	0.0287
2006	12-May	3	T	120	-912501.95	0.0900	-0.0822	0.0000	0.0000	0.0000
2006	12-May	1	C	200	-940707.62	0.0002	-0.0002	0.0000	0.0000	0.0000
2006	12-May	2	C	200	-940707.62	0.0105	-0.0098	0.0015	-0.0015	0.0085
2006	12-May	3	C	200	-940707.62	0.0064	-0.0060	0.0000	0.0000	0.0000
2006	12-May	1	T	200	-522761.05	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	2	T	200	-522761.05	0.0331	-0.0173	0.0006	-0.0003	0.0170
2006	12-May	3	T	200	-522761.05	0.0521	-0.0272	0.0000	0.0000	0.0000
2006	19-May	1	C	15	-278616.59	0.0361	-0.0101	0.0300	-0.0084	0.0693
2006	19-May	2	C	15	-278616.59	1.7966	-0.5006	0.0291	-0.0081	0.1099
2006	19-May	3	C	15	-278616.59	6.6001	-1.8389	0.0308	-0.0086	0.1506
2006	19-May	1	T	15	-281291.26	0.8367	-0.2354	0.0000	0.0000	0.1190
2006	19-May	2	T	15	-281291.26	2.8244	-0.7945	0.0213	-0.0060	0.1401
2006	19-May	3	T	15	-281291.26	1.7517	-0.4928	0.0313	-0.0088	0.1159
2006	19-May	1	C	30	-285890.26	0.6830	-0.1953	0.0266	-0.0076	0.0680
2006	19-May	2	C	30	-285890.26	3.8904	-1.1122	0.0000	0.0000	0.0295

year	date	rep	trt	depth	flux	Al3961	Al3961	As1890	As1890	B_2496
				cm	L/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	19-May	3	C	30	-285890.26	5.2848	-1.5109	0.0000	0.0000	0.0136
2006	19-May	1	T	30	-293940.95	1.2955	-0.3808	0.0000	0.0000	0.1009
2006	19-May	2	T	30	-293940.95	5.7256	-1.6830	0.0247	-0.0073	0.0851
2006	19-May	3	T	30	-293940.95	3.4556	-1.0157	0.0000	0.0000	0.0064
2006	19-May	1	C	60	-307965.59	1.9247	-0.5928	0.0138	-0.0042	0.0309
2006	19-May	2	C	60	-307965.59	0.4311	-0.1328	0.0275	-0.0085	0.0642
2006	19-May	3	C	60	-307965.59	1.1359	-0.3498	0.0284	-0.0087	0.0531
2006	19-May	1	T	60	-330619.33	0.6384	-0.2111	0.0000	0.0000	0.0000
2006	19-May	2	T	60	-330619.33	5.5845	-1.8463	0.0265	-0.0088	0.0942
2006	19-May	3	T	60	-330619.33	1.9755	-0.6531	0.0293	-0.0097	0.0592
2006	19-May	1	C	120	-358421.03	0.7980	-0.2860	0.0309	-0.0111	0.0691
2006	19-May	2	C	120	-358421.03	0.4136	-0.1482	0.0283	-0.0101	0.0556
2006	19-May	3	C	120	-358421.03	1.0235	-0.3668	0.0026	-0.0009	0.0306
2006	19-May	1	T	120	-384447.38	0.1376	-0.0529	0.0226	-0.0087	0.0746
2006	19-May	2	T	120	-384447.38	1.5782	-0.6067	0.0127	-0.0049	0.0327
2006	19-May	3	T	120	-384447.38	0.1256	-0.0483	0.0284	-0.0109	0.0680
2006	19-May	1	C	200	-379662.49	0.0066	-0.0025	0.0262	-0.0100	0.0963
2006	19-May	2	C	200	-379662.49	0.0183	-0.0070	0.0270	-0.0103	0.1037
2006	19-May	3	C	200	-379662.49	0.0171	-0.0065	0.0284	-0.0108	0.0457
2006	19-May	1	T	200	-418297.09	0.0020	-0.0008	0.0142	-0.0060	0.0301
2006	19-May	2	T	200	-418297.09	0.0256	-0.0107	0.0310	-0.0130	0.0252
2006	19-May	3	T	200	-418297.09	0.0656	-0.0274	0.0000	0.0000	0.0117
2006	27-May	1	C	15	-685266.37	2.1324	-1.4613	0.0318	-0.0218	0.0667
2006	27-May	2	C	15	-685266.37	0.0532	-0.0364	0.0343	-0.0235	0.0818
2006	27-May	3	C	15	-685266.37	2.4546	-1.6820	0.0293	-0.0201	0.0591
2006	27-May	1	T	15	-693606.40					
2006	27-May	2	T	15	-693606.40	4.9294	-3.4191	0.0312	-0.0217	0.1684
2006	27-May	3	T	15	-693606.40	1.7984	-1.2474	0.0317	-0.0220	0.0255
2006	27-May	1	C	30	-670126.54	1.9355	-1.2970	0.0219	-0.0147	0.0855
2006	27-May	2	C	30	-670126.54	1.0044	-0.6731	0.0036	-0.0024	0.0408
2006	27-May	3	C	30	-670126.54	7.4062	-4.9631	0.0247	-0.0165	0.0579
2006	27-May	1	T	30	-674677.48	3.6897	-2.4894	0.0247	-0.0166	0.0963
2006	27-May	2	T	30	-674677.48	7.8334	-5.2850	0.0289	-0.0195	0.0663
2006	27-May	3	T	30	-674677.48	0.0261	-0.0176	0.0354	-0.0239	0.0472
2006	27-May	1	C	60	-632794.13	0.4389	-0.2778	0.0235	-0.0149	0.0553
2006	27-May	2	C	60	-632794.13	3.1357	-1.9843	0.0328	-0.0207	0.0478
2006	27-May	3	C	60	-632794.13	0.9627	-0.6092	0.0127	-0.0080	0.0511
2006	27-May	1	T	60	-621710.36	1.2647	-0.7863	0.0319	-0.0198	0.1198
2006	27-May	2	T	60	-621710.36	6.2795	-3.9040	0.0380	-0.0236	0.0957
2006	27-May	3	T	60	-621710.36	1.7336	-1.0778	0.0218	-0.0136	0.0612
2006	27-May	1	C	120	-546588.06	0.8248	-0.4508	0.0229	-0.0125	0.0755
2006	27-May	2	C	120	-546588.06	0.3287	-0.1797	0.0259	-0.0142	0.0767
2006	27-May	3	C	120	-546588.06	1.0353	-0.5659	0.0251	-0.0137	0.0431
2006	27-May	1	T	120	-498192.59	0.1652	-0.0823	0.0215	-0.0107	0.0344
2006	27-May	2	T	120	-498192.59	1.3267	-0.6609	0.0328	-0.0164	0.1122
2006	27-May	3	T	120	-498192.59	0.0681	-0.0339	0.0290	-0.0144	0.0676

year	date	rep	trt	depth	flux	Al3961	Al3961	As1890	As1890	B_2496
				cm	L/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	27-May	1	C	200	-457337.71	0.0069	-0.0032	0.0235	-0.0107	0.0616
2006	27-May	2	C	200	-457337.71	0.0183	-0.0084	0.0281	-0.0129	0.0730
2006	27-May	3	C	200	-457337.71	0.0099	-0.0045	0.0227	-0.0104	0.0659
2006	27-May	1	T	200	-394078.26	0.0000	0.0000	0.0134	-0.0053	0.0395
2006	27-May	2	T	200	-394078.26	5.0601	-1.9941	0.0232	-0.0091	0.0651
2006	27-May	3	T	200	-394078.26	0.0284	-0.0112	0.0218	-0.0086	0.0340
2006	1-Jun	1	C	15	-610510.68	0.1160	-0.0708	0.0339	-0.0207	0.0508
2006	1-Jun	2	C	15	-610510.68	3.1989	-1.9530	0.0000	0.0000	0.0408
2006	1-Jun	3	C	15	-610510.68	11.2055	-6.8410	0.0256	-0.0156	0.0807
2006	1-Jun	1	T	15	-603483.11	9.9148	-5.9834	0.0000	0.0000	0.2857
2006	1-Jun	2	T	15	-603483.11	1.0351	-0.6246	0.0000	0.0000	0.0873
2006	1-Jun	3	T	15	-603483.11	1.0420	-0.6288	0.0301	-0.0181	0.0808
2006	1-Jun	1	C	30	-589243.52	3.5380	-2.0848	0.0000	0.0000	0.0340
2006	1-Jun	2	C	30	-589243.52	0.4502	-0.2653	0.0197	-0.0116	0.0951
2006	1-Jun	3	C	30	-589243.52	0.0266	-0.0157	0.0378	-0.0223	0.0859
2006	1-Jun	1	T	30	-578258.14	5.5569	-3.2133	0.0222	-0.0128	0.0942
2006	1-Jun	2	T	30	-578258.14	5.5767	-3.2248	0.0251	-0.0145	0.0673
2006	1-Jun	3	T	30	-578258.14	10.1889	-5.8918	0.0204	-0.0118	0.0625
2006	1-Jun	1	C	60	-571519.37	3.8130	-2.1792	0.0263	-0.0150	0.0703
2006	1-Jun	2	C	60	-571519.37	0.4203	-0.2402	0.0000	0.0000	0.0000
2006	1-Jun	3	C	60	-571519.37	1.1651	-0.6659	0.0251	-0.0143	0.0259
2006	1-Jun	1	T	60	-579131.42	1.0128	-0.5866	0.0253	-0.0146	0.0754
2006	1-Jun	2	T	60	-579131.42	9.5271	-5.5174	0.0345	-0.0200	0.0323
2006	1-Jun	3	T	60	-579131.42	1.5038	-0.8709	0.0170	-0.0098	0.1029
2006	1-Jun	1	C	120	-601952.72	0.8548	-0.5145	0.0265	-0.0159	0.0299
2006	1-Jun	2	C	120	-601952.72	0.0216	-0.0130	0.0000	0.0000	0.0000
2006	1-Jun	3	C	120	-601952.72	1.0596	-0.6378	0.0185	-0.0111	0.0739
2006	1-Jun	1	T	120	-621922.61	0.2055	-0.1278	0.0254	-0.0158	0.0377
2006	1-Jun	2	T	120	-621922.61	1.8907	-1.1759	0.0274	-0.0171	0.0727
2006	1-Jun	3	T	120	-621922.61	0.1315	-0.0818	0.0245	-0.0153	0.0742
2006	1-Jun	1	C	200	-646102.53	0.4935	-0.3188	0.0008	-0.0005	0.0102
2006	1-Jun	2	C	200	-646102.53	1.5532	-1.0036	0.0291	-0.0188	0.0495
2006	1-Jun	3	C	200	-646102.53	0.0115	-0.0074	0.0279	-0.0180	0.0817
2006	1-Jun	1	T	200	-642563.77	0.0003	-0.0002	0.0235	-0.0151	0.0834
2006	1-Jun	2	T	200	-642563.77	0.0394	-0.0253	0.0333	-0.0214	0.1131
2006	1-Jun	3	T	200	-642563.77	0.0467	-0.0300	0.0326	-0.0210	0.0443
2006	9-Jun	1	C	15	-592088.74	0.2253	-0.1334	0.0269	-0.0159	0.0616
2006	9-Jun	2	C	15	-592088.74	0.8657	-0.5126	0.0095	-0.0056	0.0052
2006	9-Jun	3	C	15	-592088.74	1.4545	-0.8612	0.0000	0.0000	0.0215
2006	9-Jun	1	T	15	-599639.41	17.9370	-10.7558	0.0049	-0.0029	0.3231
2006	9-Jun	2	T	15	-599639.41	14.6678	-8.7954	0.0250	-0.0150	0.1271
2006	9-Jun	3	T	15	-599639.41	3.7709	-2.2612	0.0374	-0.0224	0.0822
2006	9-Jun	1	C	30	-589325.51	3.4366	-2.0253	0.0267	-0.0158	0.0796
2006	9-Jun	2	C	30	-589325.51	0.4976	-0.2933	0.0000	0.0000	0.0277
2006	9-Jun	3	C	30	-589325.51	10.4935	-6.1841	0.0085	-0.0050	0.0027
2006	9-Jun	1	T	30	-587838.22	4.9145	-2.8890	0.0311	-0.0183	0.0350

year	date	rep	trt	depth	flux	Al3961	Al3961	As1890	As1890	B_2496
				cm	L/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	9-Jun	2	T	30	-587838.22	5.7149	-3.3594	0.0407	-0.0239	0.1051
2006	9-Jun	3	T	30	-587838.22	10.5866	-6.2232	0.0330	-0.0194	0.0937
2006	9-Jun	1	C	60	-565829.41	4.8354	-2.7360	0.0307	-0.0174	0.0655
2006	9-Jun	2	C	60	-565829.41	0.5517	-0.3122	0.0049	-0.0028	0.0363
2006	9-Jun	3	C	60	-565829.41	1.2956	-0.7331	0.0058	-0.0033	0.0040
2006	9-Jun	1	T	60	-543365.20	1.1421	-0.6206	0.0259	-0.0141	0.0480
2006	9-Jun	2	T	60	-543365.20	11.1082	-6.0358	0.0196	-0.0106	0.0674
2006	9-Jun	3	T	60	-543365.20	1.5931	-0.8656	0.0250	-0.0136	0.0886
2006	9-Jun	1	C	120	-494380.97	0.8724	-0.4313	0.0256	-0.0127	0.0513
2006	9-Jun	2	C	120	-494380.97	0.4296	-0.2124	0.0017	-0.0008	0.0285
2006	9-Jun	3	C	120	-494380.97	0.9198	-0.4547	0.0088	-0.0044	0.0417
2006	9-Jun	1	T	120	-468117.66	0.1699	-0.0795	0.0255	-0.0119	0.0597
2006	9-Jun	2	T	120	-468117.66	2.0753	-0.9715	0.0316	-0.0148	0.0493
2006	9-Jun	3	T	120	-468117.66	0.1202	-0.0563	0.0268	-0.0126	0.0359
2006	9-Jun	1	C	200	-447213.29	0.0090	-0.0040	0.0000	0.0000	0.0130
2006	9-Jun	2	C	200	-447213.29	0.0111	-0.0050	0.0050	-0.0022	0.0000
2006	9-Jun	3	C	200	-447213.29	0.0130	-0.0058	0.0127	-0.0057	0.0404
2006	9-Jun	1	T	200	-493413.45	0.0000	0.0000	0.0189	-0.0093	0.0791
2006	9-Jun	2	T	200	-493413.45	0.0354	-0.0175	0.0276	-0.0136	0.0558
2006	9-Jun	3	T	200	-493413.45	0.0463	-0.0229	0.0248	-0.0123	0.0578
2006	15-Jun	1	C	15	-447495.62	0.1460	-0.0653	0.0000	0.0000	0.0098
2006	15-Jun	2	C	15	-447495.62	1.0982	-0.4914	0.0000	0.0000	0.0222
2006	15-Jun	3	C	15	-447495.62	2.8657	-1.2824	0.0029	-0.0013	0.0420
2006	15-Jun	1	T	15	-470160.85	11.7583	-5.5283	0.0000	0.0000	0.2775
2006	15-Jun	2	T	15	-470160.85	11.6682	-5.4859	0.0109	-0.0051	0.1227
2006	15-Jun	3	T	15	-470160.85	2.9910	-1.4063	0.0134	-0.0063	0.0718
2006	15-Jun	1	C	30	-455949.91	4.6114	-2.1026	0.0076	-0.0035	0.1050
2006	15-Jun	2	C	30	-455949.91	5.8065	-2.6475	0.0000	0.0000	0.0300
2006	15-Jun	3	C	30	-455949.91	10.3393	-4.7142	0.0089	-0.0040	0.0182
2006	15-Jun	1	T	30	-469808.12	3.8435	-1.8057	0.0052	-0.0025	0.0175
2006	15-Jun	2	T	30	-469808.12	8.2982	-3.8986	0.0009	-0.0004	0.0535
2006	15-Jun	3	T	30	-469808.12	25.1124	-11.7980	0.0007	-0.0003	0.0444
2006	15-Jun	1	C	60	-459245.66	5.4414	-2.4989	0.0092	-0.0042	0.0196
2006	15-Jun	2	C	60	-459245.66	0.7317	-0.3360	0.0050	-0.0023	0.0154
2006	15-Jun	3	C	60	-459245.66	1.4352	-0.6591	0.0077	-0.0035	0.0168
2006	15-Jun	1	T	60	-473792.59	1.0567	-0.5007	0.0000	0.0000	0.0000
2006	15-Jun	2	T	60	-473792.59	12.2770	-5.8168	0.0102	-0.0048	0.0339
2006	15-Jun	3	T	60	-473792.59	1.5576	-0.7380	0.0070	-0.0033	0.0222
2006	15-Jun	1	C	120	-464119.69	0.9646	-0.4477	0.0072	-0.0034	0.0350
2006	15-Jun	2	C	120	-464119.69	0.4538	-0.2106	0.0096	-0.0045	0.0448
2006	15-Jun	3	C	120	-464119.69	1.0022	-0.4651	0.0091	-0.0042	0.0406
2006	15-Jun	1	T	120	-494624.00	0.1648	-0.0815	0.0048	-0.0024	0.0248
2006	15-Jun	2	T	120	-494624.00	2.2351	-1.1055	0.0082	-0.0041	0.0196
2006	15-Jun	3	T	120	-494624.00	0.1394	-0.0690	0.0157	-0.0078	0.0144
2006	15-Jun	1	C	200	-489462.36	0.0073	-0.0036	0.0092	-0.0045	0.0000
2006	15-Jun	2	C	200	-489462.36	0.0232	-0.0113	0.0061	-0.0030	0.0238

year	date	rep	trt	depth	flux	Al3961	Al3961	As1890	As1890	B_2496
				cm	L/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	15-Jun	3	C	200	-489462.36	0.0130	-0.0064	0.0000	0.0000	0.0000
2006	15-Jun	1	T	200	-457600.63	0.0107	-0.0049	0.0000	0.0000	0.0000
2006	15-Jun	2	T	200	-457600.63	0.0375	-0.0172	0.0067	-0.0030	0.0209
2006	15-Jun	3	T	200	-457600.63	0.0539	-0.0247	0.0050	-0.0023	0.0000
2006	22-Jun	1	C	15	-438228.74	18.1095	-7.9361	0.0058	-0.0025	0.0747
2006	22-Jun	2	C	15	-438228.74	4.3026	-1.8855	0.0071	-0.0031	0.0326
2006	22-Jun	3	C	15	-438228.74	1.4960	-0.6556	0.0040	-0.0017	0.0319
2006	22-Jun	1	T	15	-443986.65	2.8037	-1.2448	0.0080	-0.0035	0.1199
2006	22-Jun	2	T	15	-443986.65	1.8557	-0.8239	0.0035	-0.0016	0.0849
2006	22-Jun	3	T	15	-443986.65	2.3990	-1.0651	0.0058	-0.0026	0.0526
2006	22-Jun	1	C	30	-400539.06	3.7639	-1.5076	0.0040	-0.0016	0.0122
2006	22-Jun	2	C	30	-400539.06	0.7574	-0.3034	0.0000	0.0000	0.0000
2006	22-Jun	3	C	30	-400539.06	10.7387	-4.3013	0.0074	-0.0030	0.0444
2006	22-Jun	1	T	30	-404367.59	3.4749	-1.4051	0.0060	-0.0024	0.0000
2006	22-Jun	2	T	30	-404367.59	14.1256	-5.7119	0.0046	-0.0019	0.0404
2006	22-Jun	3	T	30	-404367.59	46.3278	-18.7335	0.0032	-0.0013	0.0000
2006	22-Jun	1	C	60	-355795.45	6.1428	-2.1856	0.0113	-0.0040	0.0190
2006	22-Jun	2	C	60	-355795.45	0.9241	-0.3288	0.0049	-0.0018	0.0361
2006	22-Jun	3	C	60	-355795.45	1.5635	-0.5563	0.0022	-0.0008	0.0222
2006	22-Jun	1	T	60	-361318.87	1.2357	-0.4465	0.0000	0.0000	0.0054
2006	22-Jun	2	T	60	-361318.87	15.5173	-5.6067	0.0067	-0.0024	0.0148
2006	22-Jun	3	T	60	-361318.87	2.0506	-0.7409	0.0069	-0.0025	0.0149
2006	22-Jun	1	C	120	-337994.86	0.8706	-0.2943	0.0052	-0.0017	0.0313
2006	22-Jun	2	C	120	-337994.86	0.4324	-0.1461	0.0000	0.0000	0.0000
2006	22-Jun	3	C	120	-337994.86	1.0240	-0.3461	0.0125	-0.0042	0.0236
2006	22-Jun	1	T	120	-371557.81	0.1533	-0.0570	0.0053	-0.0020	0.0229
2006	22-Jun	2	T	120	-371557.81	2.3623	-0.8777	0.0083	-0.0031	0.0364
2006	22-Jun	3	T	120	-371557.81	0.1444	-0.0536	0.0086	-0.0032	0.0000
2006	22-Jun	1	C	200	-405146.20	0.0094	-0.0038	0.0002	-0.0001	0.0000
2006	22-Jun	2	C	200	-405146.20	0.0149	-0.0060	0.0048	-0.0020	0.0028
2006	22-Jun	3	C	200	-405146.20	0.0109	-0.0044	0.0074	-0.0030	0.0000
2006	22-Jun	1	T	200	-470609.35	0.0065	-0.0030	0.0000	0.0000	0.0081
2006	22-Jun	2	T	200	-470609.35	0.0367	-0.0173	0.0117	-0.0055	0.0202
2006	22-Jun	3	T	200	-470609.35	0.0326	-0.0153	0.0009	-0.0004	0.0054
2006	29-Jun	1	C	15	-886165.31	9.0171	-7.9907	0.0089	-0.0079	0.0279
2006	29-Jun	2	C	15	-886165.31	11.9622	-10.6005	0.0054	-0.0048	0.0228
2006	29-Jun	3	C	15	-886165.31	3.3337	-2.9542	0.0057	-0.0050	0.0370
2006	29-Jun	1	T	15	-915063.44	0.1778	-0.1627	0.0014	-0.0013	0.0693
2006	29-Jun	2	T	15	-915063.44	0.7106	-0.6502	0.0000	0.0000	0.0910
2006	29-Jun	3	T	15	-915063.44	0.2526	-0.2312	0.0000	0.0000	0.0265
2006	29-Jun	1	C	30	-896373.85	4.0153	-3.5992	0.0012	-0.0011	0.0185
2006	29-Jun	2	C	30	-896373.85	7.6245	-6.8344	0.0049	-0.0044	0.0228
2006	29-Jun	3	C	30	-896373.85	13.4928	-12.0945	0.0063	-0.0056	0.0185
2006	29-Jun	1	T	30	-928735.16	1.3783	-1.2801	0.0080	-0.0074	0.0416
2006	29-Jun	2	T	30	-928735.16	16.9580	-15.7495	0.0064	-0.0059	0.0377
2006	29-Jun	3	T	30	-928735.16	40.9701	-38.0503	0.0011	-0.0010	0.0167

year	date	rep	trt	depth	flux	Al3961	Al3961	As1890	As1890	B_2496
				cm	L/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	29-Jun	1	C	60	-901453.02	7.8315	-7.0597	0.0077	-0.0070	0.0000
2006	29-Jun	2	C	60	-901453.02	1.1691	-1.0539	0.0000	0.0000	0.0242
2006	29-Jun	3	C	60	-901453.02	0.9596	-0.8651	0.0062	-0.0056	0.0641
2006	29-Jun	1	T	60	-914018.90	1.5488	-1.4156	0.0058	-0.0053	0.0166
2006	29-Jun	2	T	60	-914018.90	19.4654	-17.7918	0.0076	-0.0069	0.0195
2006	29-Jun	3	T	60	-914018.90	2.7470	-2.5108	0.0193	-0.0176	0.0223
2006	29-Jun	1	C	120	-861393.91	0.8701	-0.7495	0.0005	-0.0004	0.0071
2006	29-Jun	2	C	120	-861393.91	0.5030	-0.4333	0.0039	-0.0034	0.0655
2006	29-Jun	3	C	120	-861393.91	1.2534	-1.0797	0.0000	0.0000	0.0000
2006	29-Jun	1	T	120	-820919.69	0.1667	-0.1369	0.0000	0.0000	0.0000
2006	29-Jun	2	T	120	-820919.69	2.4848	-2.0399	0.0000	0.0000	0.0014
2006	29-Jun	3	T	120	-820919.69	0.1867	-0.1533	0.0025	-0.0021	0.0753
2006	29-Jun	1	C	200	-785929.22	0.0069	-0.0054	0.0122	-0.0096	0.0114
2006	29-Jun	2	C	200	-785929.22	0.0197	-0.0154	0.0013	-0.0010	0.0071
2006	29-Jun	3	C	200	-785929.22	0.0061	-0.0048	0.0074	-0.0058	0.0601
2006	29-Jun	1	T	200	-656769.97	0.0040	-0.0027	0.0000	0.0000	0.0000
2006	29-Jun	2	T	200	-656769.97	0.0376	-0.0247	0.0060	-0.0039	0.0000
2006	29-Jun	3	T	200	-656769.97	0.0539	-0.0354	0.0129	-0.0085	0.0335
2006	5-Jul	1	C	15	-583040.48	0.6549	-0.3818	0.0035	-0.0020	0.0630
2006	5-Jul	2	C	15	-583040.48	4.1680	-2.4301	0.0000	0.0000	0.0220
2006	5-Jul	3	C	15	-583040.48	2.4289	-1.4162	0.0000	0.0000	0.0488
2006	5-Jul	1	T	15	-602729.79	0.0614	-0.0370	0.0000	0.0000	0.0910
2006	5-Jul	2	T	15	-602729.79	0.2641	-0.1592	0.0000	0.0000	0.0744
2006	5-Jul	3	T	15	-602729.79	0.0155	-0.0093	0.0048	-0.0029	0.0510
2006	5-Jul	1	C	30	-563622.97	3.3023	-1.8612	0.0020	-0.0011	0.0598
2006	5-Jul	2	C	30	-563622.97	5.2940	-2.9838	0.0007	-0.0004	0.0315
2006	5-Jul	3	C	30	-563622.97	10.0456	-5.6619	0.0000	0.0000	0.0385
2006	5-Jul	1	T	30	-575813.73	0.2361	-0.1359	0.0000	0.0000	0.0272
2006	5-Jul	2	T	30	-575813.73	15.0054	-8.6403	0.0000	0.0000	0.0215
2006	5-Jul	3	T	30	-575813.73	9.2862	-5.3471	0.0000	0.0000	0.0526
2006	5-Jul	1	C	60	-526852.00	8.8587	-4.6672	0.0000	0.0000	0.0220
2006	5-Jul	2	C	60	-526852.00	1.4142	-0.7451	0.0033	-0.0017	0.0709
2006	5-Jul	3	C	60	-526852.00	1.4835	-0.7816	0.0000	0.0000	0.0185
2006	5-Jul	1	T	60	-541689.42	1.1715	-0.6346	0.0030	-0.0016	0.0022
2006	5-Jul	2	T	60	-541689.42	20.9582	-11.3528	0.0000	0.0000	0.0000
2006	5-Jul	3	T	60	-541689.42	4.0214	-2.1783	0.0000	0.0000	0.0132
2006	5-Jul	1	C	120	-477837.40	1.1379	-0.5437	0.0000	0.0000	0.0236
2006	5-Jul	2	C	120	-477837.40	0.6274	-0.2998	0.0000	0.0000	0.0078
2006	5-Jul	3	C	120	-477837.40	1.0490	-0.5013	0.0026	-0.0012	0.0365
2006	5-Jul	1	T	120	-483190.24	0.2498	-0.1207	0.0000	0.0000	0.0000
2006	5-Jul	2	T	120	-483190.24	3.0522	-1.4748	0.0000	0.0000	0.0740
2006	5-Jul	3	T	120	-483190.24	0.2148	-0.1038	0.0030	-0.0014	0.0329
2006	5-Jul	1	C	200	-467454.11	0.0075	-0.0035	0.0018	-0.0008	0.0157
2006	5-Jul	2	C	200	-467454.11	0.0186	-0.0087	0.0041	-0.0019	0.0094
2006	5-Jul	3	C	200	-467454.11	0.0243	-0.0113	0.0075	-0.0035	0.0370
2006	5-Jul	1	T	200	-492461.91	0.0000	0.0000	0.0000	0.0000	0.0000

year	date	rep	trt	depth	flux	Al3961	Al3961	As1890	As1890	B_2496
				cm	L/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	5-Jul	2	T	200	-492461.91	0.0383	-0.0189	0.0018	-0.0009	0.0526
2006	5-Jul	3	T	200	-492461.91	0.0568	-0.0280	0.0000	0.0000	0.0000
2006	13-Jul	1	C	15	-1196678.37					
2006	13-Jul	2	C	15	-1196678.37	0.7273	-0.8704	0.0000	0.0000	0.0403
2006	13-Jul	3	C	15	-1196678.37	0.0135	-0.0161	0.0010	-0.0012	0.0046
2006	13-Jul	1	T	15	-1226749.40	0.0100	-0.0123	0.0000	0.0000	0.0431
2006	13-Jul	2	T	15	-1226749.40	0.3742	-0.4591	0.0000	0.0000	0.1040
2006	13-Jul	3	T	15	-1226749.40	0.0407	-0.0499	0.0022	-0.0027	0.0698
2006	13-Jul	1	C	30	-1175184.84	2.7107	-3.1856	0.0000	0.0000	0.0155
2006	13-Jul	2	C	30	-1175184.84	6.7876	-7.9767	0.0000	0.0000	0.0527
2006	13-Jul	3	C	30	-1175184.84	10.6122	-12.4713	0.0047	-0.0055	0.0586
2006	13-Jul	1	T	30	-1206462.55	0.0476	-0.0574	0.0000	0.0000	0.0342
2006	13-Jul	2	T	30	-1206462.55	8.6385	-10.4220	0.0029	-0.0035	0.0128
2006	13-Jul	3	T	30	-1206462.55	1.5604	-1.8826	0.0000	0.0000	0.0217
2006	13-Jul	1	C	60	-1136228.35	11.3834	-12.9341	0.0000	0.0000	0.0202
2006	13-Jul	2	C	60	-1136228.35	0.9316	-1.0585	0.0000	0.0000	0.0341
2006	13-Jul	3	C	60	-1136228.35	2.1915	-2.4901	0.0000	0.0000	0.0170
2006	13-Jul	1	T	60	-1139952.85	1.6537	-1.8851	0.0000	0.0000	0.0000
2006	13-Jul	2	T	60	-1139952.85	19.4820	-22.2085	0.0000	0.0000	0.0370
2006	13-Jul	3	T	60	-1139952.85	3.9536	-4.5069	0.0000	0.0000	0.0527
2006	13-Jul	1	C	120	-1048215.62	0.9437	-0.9892	0.0000	0.0000	0.0744
2006	13-Jul	2	C	120	-1048215.62	0.6800	-0.7128	0.0000	0.0000	0.0000
2006	13-Jul	3	C	120	-1048215.62	1.0781	-1.1301	0.0000	0.0000	0.0000
2006	13-Jul	1	T	120	-1010474.65	0.1853	-0.1872	0.0001	-0.0001	0.0000
2006	13-Jul	2	T	120	-1010474.65	2.9984	-3.0299	0.0000	0.0000	0.0228
2006	13-Jul	3	T	120	-1010474.65	0.2022	-0.2043	0.0000	0.0000	0.0186
2006	13-Jul	1	C	200	-1003924.07	0.0000	0.0000	0.0007	-0.0007	0.0372
2006	13-Jul	2	C	200	-1003924.07	0.0144	-0.0144	0.0000	0.0000	0.0355
2006	13-Jul	3	C	200	-1003924.07	0.0166	-0.0166	0.0028	-0.0028	0.0139
2006	13-Jul	1	T	200	-948339.21	0.0000	0.0000	0.0000	0.0000	0.0271
2006	13-Jul	2	T	200	-948339.21	0.0392	-0.0372	0.0000	0.0000	0.0299
2006	13-Jul	3	T	200	-948339.21	0.0566	-0.0537	0.0000	0.0000	0.0574
2006	20-Jul	1	C	15	-408961.53	0.0004	-0.0001	0.0000	0.0000	0.0639
2006	20-Jul	2	C	15	-408961.53					
2006	20-Jul	3	C	15	-408961.53	0.0112	-0.0046	0.0000	0.0000	0.0279
2006	20-Jul	1	T	15	-411668.52	0.0236	-0.0097	0.0000	0.0000	0.0939
2006	20-Jul	2	T	15	-411668.52	0.2128	-0.0876	0.0003	-0.0001	0.0864
2006	20-Jul	3	T	15	-411668.52	0.0070	-0.0029	0.0000	0.0000	0.0609
2006	20-Jul	1	C	30	-408907.88	0.0000	0.0000	0.0000	0.0000	0.0213
2006	20-Jul	2	C	30	-408907.88	0.2453	-0.1003	0.0008	-0.0003	0.0343
2006	20-Jul	3	C	30	-408907.88	22.9836	-9.3982	0.0000	0.0000	0.0311
2006	20-Jul	1	T	30	-422151.70	0.0005	-0.0002	0.0000	0.0000	0.0278
2006	20-Jul	2	T	30	-422151.70	3.6174	-1.5271	0.0000	0.0000	0.0216
2006	20-Jul	3	T	30	-422151.70	0.3769	-0.1591	0.0000	0.0000	0.0199
2006	20-Jul	1	C	60	-423310.90	12.8128	-5.4238	0.0000	0.0000	0.0320
2006	20-Jul	2	C	60	-423310.90	1.0518	-0.4453	0.0000	0.0000	0.0164

year	date	rep	trt	depth	flux	Al3961	Al3961	As1890	As1890	B_2496
				cm	L/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	20-Jul	3	C	60	-423310.90	2.3975	-1.0149	0.0000	0.0000	0.0459
2006	20-Jul	1	T	60	-455298.13	1.0166	-0.4629	0.0000	0.0000	0.0571
2006	20-Jul	2	T	60	-455298.13	19.6945	-8.9669	0.0000	0.0000	0.0000
2006	20-Jul	3	T	60	-455298.13	6.7394	-3.0684	0.0000	0.0000	0.0152
2006	20-Jul	1	C	120	-474679.47	0.9825	-0.4664	0.0000	0.0000	0.0472
2006	20-Jul	2	C	120	-474679.47	0.5654	-0.2684	0.0000	0.0000	0.0754
2006	20-Jul	3	C	120	-474679.47	1.1276	-0.5353	0.0000	0.0000	0.0608
2006	20-Jul	1	T	120	-541834.85	0.2482	-0.1345	0.0002	-0.0001	0.0463
2006	20-Jul	2	T	120	-541834.85	3.0916	-1.6751	0.0000	0.0000	0.0183
2006	20-Jul	3	T	120	-541834.85	0.2269	-0.1230	0.0000	0.0000	0.0502
2006	20-Jul	1	C	200	-588424.06	0.0049	-0.0029	0.0000	0.0000	0.0502
2006	20-Jul	2	C	200	-588424.06	0.0177	-0.0104	0.0002	-0.0001	0.0115
2006	20-Jul	3	C	200	-588424.06	0.0204	-0.0120	0.0012	-0.0007	0.0344
2006	20-Jul	1	T	200	-700873.02	0.0000	0.0000	0.0000	0.0000	0.0309
2006	20-Jul	2	T	200	-700873.02	0.0517	-0.0362	0.0003	-0.0002	0.0350
2006	20-Jul	3	T	200	-700873.02	0.0723	-0.0507	0.0000	0.0000	0.0152
2006	26-Jul	1	C	15	-781072.65	0.0000	0.0000	0.0011	-0.0009	0.0000
2006	26-Jul	2	C	15	-781072.65					
2006	26-Jul	3	C	15	-781072.65	0.0164	-0.0128	0.0000	0.0000	0.0000
2006	26-Jul	1	T	15	-774229.52	0.2868	-0.2221	0.0000	0.0000	0.1204
2006	26-Jul	2	T	15	-774229.52	0.1046	-0.0810	0.0000	0.0000	0.0972
2006	26-Jul	3	T	15	-774229.52	0.0045	-0.0035	0.0000	0.0000	0.0000
2006	26-Jul	1	C	30	-729895.09	0.0783	-0.0571	0.0157	-0.0114	0.0878
2006	26-Jul	2	C	30	-729895.09	0.0196	-0.0143	0.0000	0.0000	0.0000
2006	26-Jul	3	C	30	-729895.09	7.7742	-5.6744	0.0013	-0.0010	0.0000
2006	26-Jul	1	T	30	-719118.52	0.0000	0.0000	0.0000	0.0000	0.0426
2006	26-Jul	2	T	30	-719118.52	1.9722	-1.4183	0.0000	0.0000	0.0557
2006	26-Jul	3	T	30	-719118.52	0.1143	-0.0822	0.0000	0.0000	0.0200
2006	26-Jul	1	C	60	-640807.30	13.6741	-8.7625	0.0000	0.0000	0.0185
2006	26-Jul	2	C	60	-640807.30	0.7650	-0.4902	0.0000	0.0000	0.0000
2006	26-Jul	3	C	60	-640807.30	2.1058	-1.3494	0.0000	0.0000	0.0000
2006	26-Jul	1	T	60	-610501.87	1.2598	-0.7691	0.0066	-0.0040	0.0803
2006	26-Jul	2	T	60	-610501.87	17.3017	-10.5627	0.0000	0.0000	0.0385
2006	26-Jul	3	T	60	-610501.87	8.8142	-5.3811	0.0000	0.0000	0.0401
2006	26-Jul	1	C	120	-489793.48	1.0613	-0.5198	0.0000	0.0000	0.0493
2006	26-Jul	2	C	120	-489793.48	0.6108	-0.2992	0.0000	0.0000	0.0000
2006	26-Jul	3	C	120	-489793.48	1.3845	-0.6781	0.0000	0.0000	0.0000
2006	26-Jul	1	T	120	-431771.88	0.2409	-0.1040	0.0000	0.0000	0.0672
2006	26-Jul	2	T	120	-431771.88	3.2648	-1.4096	0.0000	0.0000	0.0139
2006	26-Jul	3	T	120	-431771.88	0.2226	-0.0961	0.0000	0.0000	0.0200
2006	26-Jul	1	C	200	-385285.17	0.0248	-0.0096	0.0000	0.0000	0.0000
2006	26-Jul	2	C	200	-385285.17	0.0277	-0.0107	0.0009	-0.0004	0.0000
2006	26-Jul	3	C	200	-385285.17	0.0392	-0.0151	0.0005	-0.0002	0.0000
2006	26-Jul	1	T	200	-319440.15	0.0000	0.0000	0.0000	0.0000	0.0115
2006	26-Jul	2	T	200	-319440.15	0.0423	-0.0135	0.0000	0.0000	0.0370

year	date	rep	trt	depth	flux	Al3961	Al3961	As1890	As1890	B_2496
				cm	L/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	26-Jul	3	T	200	-319440.15	0.0937	-0.0299	0.0053	-0.0017	0.0555
2006	3-Aug	1	C	15	-148723.59	0.0627	-0.0093	0.0000	0.0000	0.0000
2006	3-Aug	2	C	15	-148723.59	0.1231	-0.0183	0.0000	0.0000	0.0112
2006	3-Aug	3	C	15	-148723.59	0.0397	-0.0059	0.0000	0.0000	0.0000
2006	3-Aug	1	T	15	-154799.61	0.1158	-0.0179	0.0004	-0.0001	0.1315
2006	3-Aug	2	T	15	-154799.61	0.1074	-0.0166	0.0000	0.0000	0.0000
2006	3-Aug	3	T	15	-154799.61	0.0219	-0.0034	0.0000	0.0000	0.0000
2006	3-Aug	1	C	30	-139205.31	0.1619	-0.0225	0.0000	0.0000	0.0000
2006	3-Aug	2	C	30	-139205.31	0.0182	-0.0025	0.0000	0.0000	0.0000
2006	3-Aug	3	C	30	-139205.31	6.7593	-0.9409	0.0000	0.0000	0.0000
2006	3-Aug	1	T	30	-153760.72	0.0147	-0.0023	0.0000	0.0000	0.0000
2006	3-Aug	2	T	30	-153760.72	0.7068	-0.1087	0.0000	0.0000	0.0000
2006	3-Aug	3	T	30	-153760.72	0.0250	-0.0038	0.0000	0.0000	0.0055
2006	3-Aug	1	C	60	-141743.50	13.0755	-1.8534	0.0000	0.0000	0.0030
2006	3-Aug	2	C	60	-141743.50	0.7499	-0.1063	0.0029	-0.0004	0.0000
2006	3-Aug	3	C	60	-141743.50	1.9940	-0.2826	0.0000	0.0000	0.0102
2006	3-Aug	1	T	60	-179987.80	1.1102	-0.1998	0.0000	0.0000	0.0088
2006	3-Aug	2	T	60	-179987.80	13.7351	-2.4721	0.0000	0.0000	0.0000
2006	3-Aug	3	T	60	-179987.80	8.5529	-1.5394	0.0000	0.0000	0.0000
2006	3-Aug	1	C	120	-224576.68	1.0981	-0.2466	0.0025	-0.0006	0.0000
2006	3-Aug	2	C	120	-224576.68	0.5886	-0.1322	0.0000	0.0000	0.0000
2006	3-Aug	3	C	120	-224576.68	1.1530	-0.2589	0.0005	-0.0001	0.0326
2006	3-Aug	1	T	120	-309601.13	0.2799	-0.0866	0.0000	0.0000	0.0000
2006	3-Aug	2	T	120	-309601.13	3.1191	-0.9657	0.0000	0.0000	0.0000
2006	3-Aug	3	T	120	-309601.13	0.2381	-0.0737	0.0000	0.0000	0.0000
2006	3-Aug	1	C	200	-410598.99	0.0362	-0.0149	0.0000	0.0000	0.0000
2006	3-Aug	2	C	200	-410598.99	0.0347	-0.0143	0.0000	0.0000	0.0000
2006	3-Aug	3	C	200	-410598.99	0.0648	-0.0266	0.0029	-0.0012	0.0000
2006	3-Aug	1	T	200	-521996.24	0.0137	-0.0071	0.0000	0.0000	0.0000
2006	3-Aug	2	T	200	-521996.24	0.0501	-0.0262	0.0000	0.0000	0.0000
2006	3-Aug	3	T	200	-521996.24	0.0900	-0.0470	0.0000	0.0000	0.0000
2006	10-Aug	1	C	15	-174740.16	0.0437	-0.0076	0.0000	0.0000	0.0000
2006	10-Aug	2	C	15	-174740.16	0.3949	-0.0690	0.0000	0.0000	0.0000
2006	10-Aug	3	C	15	-174740.16	0.0289	-0.0050	0.0093	-0.0016	0.0118
2006	10-Aug	1	T	15	-174547.28	0.1937	-0.0338	0.0000	0.0000	0.0510
2006	10-Aug	2	T	15	-174547.28	0.6306	-0.1101	0.0000	0.0000	0.0030
2006	10-Aug	3	T	15	-174547.28	0.0361	-0.0063	0.0019	-0.0003	0.0000
2006	10-Aug	1	C	30	-151805.67	0.0254	-0.0038	0.0023	-0.0004	0.0000
2006	10-Aug	2	C	30	-151805.67	0.0130	-0.0020	0.0000	0.0000	0.0000
2006	10-Aug	3	C	30	-151805.67	5.4860	-0.8328	0.0000	0.0000	0.0000
2006	10-Aug	1	T	30	-153260.50	0.0224	-0.0034	0.0000	0.0000	0.0000
2006	10-Aug	2	T	30	-153260.50	0.7822	-0.1199	0.0000	0.0000	0.0000
2006	10-Aug	3	T	30	-153260.50	0.0323	-0.0050	0.0010	-0.0002	0.0000
2006	10-Aug	1	C	60	-106664.26	11.9146	-1.2709	0.0000	0.0000	0.0000
2006	10-Aug	2	C	60	-106664.26	0.4255	-0.0454	0.0000	0.0000	0.0000
2006	10-Aug	3	C	60	-106664.26	1.9269	-0.2055	0.0112	-0.0012	0.0533

year	date	rep	trt	depth	flux	Al3961	Al3961	As1890	As1890	B_2496
				cm	L/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	10-Aug	1	T	60	-110196.91	0.7689	-0.0847	0.0000	0.0000	0.0000
2006	10-Aug	2	T	60	-110196.91	13.0711	-1.4404	0.0000	0.0000	0.0000
2006	10-Aug	3	T	60	-110196.91	7.6373	-0.8416	0.0000	0.0000	0.0000
2006	10-Aug	1	C	120	-69104.89	1.0633	-0.0735	0.0000	0.0000	0.0000
2006	10-Aug	2	C	120	-69104.89	0.5858	-0.0405	0.0000	0.0000	0.0000
2006	10-Aug	3	C	120	-69104.89	1.1908	-0.0823	0.0097	-0.0007	0.0237
2006	10-Aug	1	T	120	-94283.65	0.2921	-0.0275	0.0000	0.0000	0.0000
2006	10-Aug	2	T	120	-94283.65	3.1040	-0.2927	0.0000	0.0000	0.0000
2006	10-Aug	3	T	120	-94283.65	0.2318	-0.0219	0.0000	0.0000	0.0000
2006	10-Aug	1	C	200	-140865.13	0.0213	-0.0030	0.0000	0.0000	0.0000
2006	10-Aug	2	C	200	-140865.13	0.0262	-0.0037	0.0140	-0.0020	0.0000
2006	10-Aug	3	C	200	-140865.13	0.0549	-0.0077	0.0089	-0.0012	0.0000
2006	10-Aug	1	T	200	-187866.14	0.0187	-0.0035	0.0000	0.0000	0.0000
2006	10-Aug	2	T	200	-187866.14	0.0634	-0.0119	0.0000	0.0000	0.0000
2006	10-Aug	3	T	200	-187866.14	0.1063	-0.0200	0.0000	0.0000	0.0000
2006	17-Aug	1	C	15	-801188.60	0.0172	-0.0138	0.0121	-0.0097	0.0029
2006	17-Aug	2	C	15	-801188.60	0.6995	-0.5604	0.0013	-0.0011	0.0472
2006	17-Aug	3	C	15	-801188.60	0.0171	-0.0137	0.0239	-0.0192	0.0661
2006	17-Aug	1	T	15	-788325.53	0.3688	-0.2908	0.0088	-0.0069	0.1325
2006	17-Aug	2	T	15	-788325.53	0.1627	-0.1282	0.0096	-0.0076	0.0786
2006	17-Aug	3	T	15	-788325.53	0.0501	-0.0395	0.0110	-0.0087	0.0507
2006	17-Aug	1	C	30	-715843.24	0.0342	-0.0245	0.0159	-0.0114	0.0145
2006	17-Aug	2	C	30	-715843.24	0.0173	-0.0124	0.0154	-0.0110	0.0103
2006	17-Aug	3	C	30	-715843.24	5.5704	-3.9875	0.0144	-0.0103	0.0323
2006	17-Aug	1	T	30	-680781.31	0.0170	-0.0115	0.0127	-0.0086	0.0247
2006	17-Aug	2	T	30	-680781.31	0.4744	-0.3230	0.0000	0.0000	0.0000
2006	17-Aug	3	T	30	-680781.31	0.0248	-0.0169	0.0092	-0.0062	0.0304
2006	17-Aug	1	C	60	-565796.53	10.8469	-6.1371	0.0152	-0.0086	0.0000
2006	17-Aug	2	C	60	-565796.53	0.4660	-0.2637	0.0169	-0.0096	0.0455
2006	17-Aug	3	C	60	-565796.53	1.7889	-1.0122	0.0214	-0.0121	0.0396
2006	17-Aug	1	T	60	-490301.46	0.8369	-0.4103	0.0173	-0.0085	0.0431
2006	17-Aug	2	T	60	-490301.46	13.7847	-6.7587	0.0148	-0.0072	0.0174
2006	17-Aug	3	T	60	-490301.46	7.6825	-3.7668	0.0190	-0.0093	0.0535
2006	17-Aug	1	C	120	-255970.13	0.7482	-0.1915	0.0144	-0.0037	0.0116
2006	17-Aug	2	C	120	-255970.13	0.6057	-0.1551	0.0200	-0.0051	0.0323
2006	17-Aug	3	C	120	-255970.13	1.2361	-0.3164	0.0000	0.0000	0.0000
2006	17-Aug	1	T	120	-142004.25	0.2691	-0.0382	0.0175	-0.0025	0.0000
2006	17-Aug	2	T	120	-142004.25	3.0960	-0.4396	0.0186	-0.0026	0.0420
2006	17-Aug	3	T	120	-142004.25	0.2430	-0.0345	0.0136	-0.0019	0.0000
2006	17-Aug	1	C	200	-102522.40	0.0413	-0.0042	0.0000	0.0000	0.0000
2006	17-Aug	2	C	200	-102522.40	0.0373	-0.0038	0.0187	-0.0019	0.0529
2006	17-Aug	3	C	200	-102522.40	0.0338	-0.0035	0.0196	-0.0020	0.0308
2006	17-Aug	1	T	200	-127643.86	0.0208	-0.0027	0.0000	0.0000	0.0185
2006	17-Aug	2	T	200	-127643.86	0.0658	-0.0084	0.0038	-0.0005	0.0270
2006	17-Aug	3	T	200	-127643.86	0.0918	-0.0117	0.0195	-0.0025	0.0376
2006	24-Aug	1	C	15	-588745.36	0.0193	-0.0114	0.0178	-0.0105	0.0522

year	date	rep	trt	depth	flux	Al3961	Al3961	As1890	As1890	B_2496
				cm	L/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	24-Aug	2	C	15	-588745.36	0.0262	-0.0154	0.0000	0.0000	0.0000
2006	24-Aug	3	C	15	-588745.36	0.0137	-0.0081	0.0106	-0.0062	0.0442
2006	24-Aug	1	T	15	-586644.99	0.1061	-0.0623	0.0073	-0.0043	0.0866
2006	24-Aug	2	T	15	-586644.99	0.2834	-0.1663	0.0135	-0.0079	0.0746
2006	24-Aug	3	T	15	-586644.99	0.0534	-0.0314	0.0210	-0.0123	0.0209
2006	24-Aug	1	C	30	-567233.97	0.0604	-0.0342	0.0150	-0.0085	0.0899
2006	24-Aug	2	C	30	-567233.97	0.0122	-0.0069	0.0150	-0.0085	0.0122
2006	24-Aug	3	C	30	-567233.97	3.5666	-2.0231	0.0127	-0.0072	0.0183
2006	24-Aug	1	T	30	-569886.62	0.0123	-0.0070	0.0113	-0.0065	0.0294
2006	24-Aug	2	T	30	-569886.62	0.1618	-0.0922	0.0091	-0.0052	0.0791
2006	24-Aug	3	T	30	-569886.62	0.0856	-0.0488	0.0165	-0.0094	0.0060
2006	24-Aug	1	C	60	-545178.18	10.8743	-5.9284	0.0184	-0.0100	0.0229
2006	24-Aug	2	C	60	-545178.18	0.0763	-0.0416	0.0134	-0.0073	0.0732
2006	24-Aug	3	C	60	-545178.18	0.7416	-0.4043	0.0073	-0.0040	0.0290
2006	24-Aug	1	T	60	-544684.67	0.4221	-0.2299	0.0179	-0.0097	0.0675
2006	24-Aug	2	T	60	-544684.67	11.5256	-6.2778	0.0151	-0.0082	0.0313
2006	24-Aug	3	T	60	-544684.67	12.7152	-6.9258	0.0193	-0.0105	0.0463
2006	24-Aug	1	C	120	-508948.19	0.6190	-0.3150	0.0105	-0.0054	0.0000
2006	24-Aug	2	C	120	-508948.19	0.6229	-0.3170	0.0202	-0.0103	0.0198
2006	24-Aug	3	C	120	-508948.19	1.2843	-0.6536	0.0143	-0.0073	0.0030
2006	24-Aug	1	T	120	-516610.83	0.2467	-0.1274	0.0000	0.0000	0.0000
2006	24-Aug	2	T	120	-516610.83	3.2957	-1.7026	0.0098	-0.0051	0.0254
2006	24-Aug	3	T	120	-516610.83	0.2291	-0.1183	0.0114	-0.0059	0.0075
2006	24-Aug	1	C	200	-460185.26	0.0190	-0.0087	0.0123	-0.0056	0.0305
2006	24-Aug	2	C	200	-460185.26	0.0353	-0.0163	0.0162	-0.0074	0.0549
2006	24-Aug	3	C	200	-460185.26	0.0433	-0.0199	0.0220	-0.0101	0.0000
2006	24-Aug	1	T	200	-359844.91	0.0064	-0.0023	0.0076	-0.0028	0.0149
2006	24-Aug	2	T	200	-359844.91	0.0394	-0.0142	0.0067	-0.0024	0.0000
2006	24-Aug	3	T	200	-359844.91	0.1008	-0.0363	0.0163	-0.0059	0.0343
2006	31-Aug	1	C	15	-455393.01	0.0281	-0.0128	0.0139	-0.0063	0.0454
2006	31-Aug	2	C	15	-455393.01					
2006	31-Aug	3	C	15	-455393.01	0.0313	-0.0143	0.0171	-0.0078	0.0681
2006	31-Aug	1	T	15	-492752.09	0.2661	-0.1311	0.0089	-0.0044	0.1160
2006	31-Aug	2	T	15	-492752.09	0.9682	-0.4771	0.0129	-0.0063	0.1050
2006	31-Aug	3	T	15	-492752.09	0.0553	-0.0272	0.0117	-0.0058	0.0517
2006	31-Aug	1	C	30	-527057.95	0.0167	-0.0088	0.0121	-0.0064	0.0363
2006	31-Aug	2	C	30	-527057.95	0.0143	-0.0075	0.0086	-0.0045	0.0287
2006	31-Aug	3	C	30	-527057.95	2.9876	-1.5746	0.0023	-0.0012	0.0000
2006	31-Aug	1	T	30	-569993.73	0.0252	-0.0144	0.0111	-0.0063	0.0361
2006	31-Aug	2	T	30	-569993.73	0.0843	-0.0481	0.0089	-0.0051	0.0282
2006	31-Aug	3	T	30	-569993.73					
2006	31-Aug	1	C	60	-648123.79	5.3508	-3.4680	0.0087	-0.0056	0.0469
2006	31-Aug	2	C	60	-648123.79	0.0179	-0.0116	0.0133	-0.0086	0.0530
2006	31-Aug	3	C	60	-648123.79	1.3177	-0.8540	0.0085	-0.0055	0.0150
2006	31-Aug	1	T	60	-709585.69	0.4422	-0.3138	0.0137	-0.0097	0.0000
2006	31-Aug	2	T	60	-709585.69	10.7270	-7.6117	0.0141	-0.0100	0.0000

year	date	rep	trt	depth	flux	Al3961	Al3961	As1890	As1890	B_2496
				cm	L/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	31-Aug	3	T	60	-709585.69	9.7654	-6.9294	0.0126	-0.0090	0.0266
2006	31-Aug	1	C	120	-796052.83	0.6273	-0.4994	0.0126	-0.0100	0.0651
2006	31-Aug	2	C	120	-796052.83	0.6195	-0.4932	0.0125	-0.0099	0.0121
2006	31-Aug	3	C	120	-796052.83	1.5694	-1.2493	0.0107	-0.0086	0.0645
2006	31-Aug	1	T	120	-818415.95	0.1773	-0.1451	0.0054	-0.0044	0.0219
2006	31-Aug	2	T	120	-818415.95	3.2919	-2.6942	0.0139	-0.0113	0.0047
2006	31-Aug	3	T	120	-818415.95	0.1365	-0.1117	0.0000	0.0000	0.0000
2006	31-Aug	1	C	200	-794307.66	0.0190	-0.0151	0.0046	-0.0037	0.0061
2006	31-Aug	2	C	200	-794307.66	0.0410	-0.0326	0.0113	-0.0090	0.0166
2006	31-Aug	3	C	200	-794307.66	0.0355	-0.0282	0.0118	-0.0094	0.0000
2006	31-Aug	1	T	200	-752148.57	0.0173	-0.0130	0.0010	-0.0007	0.0439
2006	31-Aug	2	T	200	-752148.57	0.0171	-0.0128	0.0014	-0.0010	0.0000
2006	31-Aug	3	T	200	-752148.57	0.0676	-0.0508	0.0131	-0.0099	0.0121
2006	7-Sep	1	C	15	-17513.39	0.2818	-0.0049	0.0012	0.0000	0.0141
2006	7-Sep	2	C	15	-17513.39	0.7295	-0.0128	0.0000	0.0000	0.0281
2006	7-Sep	3	C	15	-17513.39	0.5461	-0.0096	0.0140	-0.0002	0.0293
2006	7-Sep	1	T	15	-22842.05	1.4595	-0.0333	0.0163	-0.0004	0.0915
2006	7-Sep	2	T	15	-22842.05	1.4185	-0.0324	0.0181	-0.0004	0.0690
2006	7-Sep	3	T	15	-22842.05	0.2248	-0.0051	0.0120	-0.0003	0.0191
2006	7-Sep	1	C	30	-28226.78	0.1140	-0.0032	0.0066	-0.0002	0.0250
2006	7-Sep	2	C	30	-28226.78	0.1050	-0.0030	0.0000	0.0000	0.0000
2006	7-Sep	3	C	30	-28226.78	3.6839	-0.1040	0.0093	-0.0003	0.0000
2006	7-Sep	1	T	30	-36501.44	0.0531	-0.0019	0.0102	-0.0004	0.0615
2006	7-Sep	2	T	30	-36501.44	0.3347	-0.0122	0.0116	-0.0004	0.0420
2006	7-Sep	3	T	30	-36501.44	0.1600	-0.0058	0.0122	-0.0004	0.0323
2006	7-Sep	1	C	60	-47744.27	7.7790	-0.3714	0.0119	-0.0006	0.0626
2006	7-Sep	2	C	60	-47744.27	0.3319	-0.0158	0.0058	-0.0003	0.0259
2006	7-Sep	3	C	60	-47744.27	1.3317	-0.0636	0.0119	-0.0006	0.0259
2006	7-Sep	1	T	60	-70037.27	0.5199	-0.0364	0.0199	-0.0014	0.0510
2006	7-Sep	2	T	60	-70037.27	7.9984	-0.5602	0.0170	-0.0012	0.0510
2006	7-Sep	3	T	60	-70037.27	7.2724	-0.5093	0.0055	-0.0004	0.0264
2006	7-Sep	1	C	120	-126480.20	0.9718	-0.1229	0.0096	-0.0012	0.0000
2006	7-Sep	2	C	120	-126480.20	0.7099	-0.0898	0.0068	-0.0009	0.0000
2006	7-Sep	3	C	120	-126480.20	0.0743	-0.0094	0.0074	-0.0009	0.0207
2006	7-Sep	1	T	120	-185034.76	0.3010	-0.0557	0.0118	-0.0022	0.0255
2006	7-Sep	2	T	120	-185034.76	3.3015	-0.6109	0.0000	0.0000	0.0132
2006	7-Sep	3	T	120	-185034.76	0.2444	-0.0452	0.0000	0.0000	0.0000
2006	7-Sep	1	C	200	-246638.62	0.0593	-0.0146	0.0134	-0.0033	0.0047
2006	7-Sep	2	C	200	-246638.62	0.0854	-0.0211	0.0119	-0.0029	0.0414
2006	7-Sep	3	C	200	-246638.62	1.2392	-0.3056	0.0067	-0.0016	0.0000
2006	7-Sep	1	T	200	-340653.10	0.0247	-0.0084	0.0000	0.0000	0.0000
2006	7-Sep	2	T	200	-340653.10	0.0996	-0.0339	0.0093	-0.0032	0.0073
2006	7-Sep	3	T	200	-340653.10	0.1353	-0.0461	0.0142	-0.0048	0.0235
2006	14-Sep	1	C	15	-60920.59	0.3850	-0.0235	0.0000	0.0000	0.0000
2006	14-Sep	2	C	15	-60920.59	2.1320	-0.1299	0.0141	-0.0009	0.0431
2006	14-Sep	3	C	15	-60920.59	3.1484	-0.1918	0.0031	-0.0002	0.0616

year	date	rep	trt	depth	flux	Al3961	Al3961	As1890	As1890	B_2496
				cm	L/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	14-Sep	1	T	15	-60694.28	8.9542	-0.5435	0.0065	-0.0004	0.1224
2006	14-Sep	2	T	15	-60694.28	1.8346	-0.1114	0.0035	-0.0002	0.0575
2006	14-Sep	3	T	15	-60694.28	0.7915	-0.0480	0.0170	-0.0010	0.0498
2006	14-Sep	1	C	30	-60614.71	0.1530	-0.0093	0.0037	-0.0002	0.0000
2006	14-Sep	2	C	30	-60614.71	0.1334	-0.0081	0.0087	-0.0005	0.0247
2006	14-Sep	3	C	30	-60614.71	2.6855	-0.1628	0.0019	-0.0001	0.0370
2006	14-Sep	1	T	30	-62935.43	0.1792	-0.0113	0.0066	-0.0004	0.0569
2006	14-Sep	2	T	30	-62935.43	0.3953	-0.0249	0.0146	-0.0009	0.0264
2006	14-Sep	3	T	30	-62935.43	0.2357	-0.0148	0.0018	-0.0001	0.0000
2006	14-Sep	1	C	60	-61535.49	7.1570	-0.4404	0.0072	-0.0004	0.0046
2006	14-Sep	2	C	60	-61535.49	0.3180	-0.0196	0.0045	-0.0003	0.0293
2006	14-Sep	3	C	60	-61535.49	1.2618	-0.0776	0.0000	0.0000	0.0000
2006	14-Sep	1	T	60	-68551.77	0.6685	-0.0458	0.0031	-0.0002	0.0000
2006	14-Sep	2	T	60	-68551.77	8.6693	-0.5943	0.0037	-0.0003	0.0000
2006	14-Sep	3	T	60	-68551.77	7.3548	-0.5042	0.0051	-0.0003	0.0000
2006	14-Sep	1	C	120	-78544.02	0.9752	-0.0766	0.0082	-0.0006	0.0000
2006	14-Sep	2	C	120	-78544.02	0.7329	-0.0576	0.0019	-0.0002	0.0046
2006	14-Sep	3	C	120	-78544.02	1.0454	-0.0821	0.0021	-0.0002	0.0101
2006	14-Sep	1	T	120	-102640.97	0.3947	-0.0405	0.0000	0.0000	0.0000
2006	14-Sep	2	T	120	-102640.97	3.4293	-0.3520	0.0139	-0.0014	0.0435
2006	14-Sep	3	T	120	-102640.97	0.2928	-0.0301	0.0133	-0.0014	0.0327
2006	14-Sep	1	C	200	-131445.62	0.0704	-0.0092	0.0012	-0.0002	0.0370
2006	14-Sep	2	C	200	-131445.62	0.0920	-0.0121	0.0038	-0.0005	0.0000
2006	14-Sep	3	C	200	-131445.62	0.0939	-0.0123	0.0020	-0.0003	0.0000
2006	14-Sep	1	T	200	-177421.09	0.0664	-0.0118	0.0000	0.0000	0.0000
2006	14-Sep	2	T	200	-177421.09	0.1128	-0.0200	0.0136	-0.0024	0.0171
2006	14-Sep	3	T	200	-177421.09	0.1527	-0.0271	0.0087	-0.0015	0.0000
2006	21-Sep	1	C	15	-62689.75	0.3653	-0.0229	0.0068	-0.0004	0.0137
2006	21-Sep	2	C	15	-62689.75	9.4174	-0.5904	0.0000	0.0000	0.0360
2006	21-Sep	3	C	15	-62689.75	1.8655	-0.1169	0.0131	-0.0008	0.0531
2006	21-Sep	1	T	15	-65956.22	24.9579	-1.6461	0.0036	-0.0002	0.1625
2006	21-Sep	2	T	15	-65956.22	5.0237	-0.3313	0.0071	-0.0005	0.0938
2006	21-Sep	3	T	15	-65956.22	5.2992	-0.3495	0.0000	0.0000	0.0122
2006	21-Sep	1	C	30	-76897.63	0.1958	-0.0151	0.0021	-0.0002	0.0411
2006	21-Sep	2	C	30	-76897.63	0.2899	-0.0223	0.0007	-0.0001	0.0000
2006	21-Sep	3	C	30	-76897.63	2.4137	-0.1856	0.0024	-0.0002	0.0734
2006	21-Sep	1	T	30	-82630.35	0.3278	-0.0271	0.0074	-0.0006	0.0141
2006	21-Sep	2	T	30	-82630.35	0.4757	-0.0393	0.0105	-0.0009	0.0000
2006	21-Sep	3	T	30	-82630.35	0.3663	-0.0303	0.0088	-0.0007	0.0000
2006	21-Sep	1	C	60	-92988.06	6.9617	-0.6474	0.0063	-0.0006	0.0107
2006	21-Sep	2	C	60	-92988.06	0.1398	-0.0130	0.0101	-0.0009	0.0244
2006	21-Sep	3	C	60	-92988.06	1.2684	-0.1179	0.0067	-0.0006	0.0438
2006	21-Sep	1	T	60	-98698.81	0.5763	-0.0569	0.0059	-0.0006	0.0453
2006	21-Sep	2	T	60	-98698.81	7.6210	-0.7522	0.0120	-0.0012	0.0125
2006	21-Sep	3	T	60	-98698.81	8.1389	-0.8033	0.0065	-0.0006	0.0000
2006	21-Sep	1	C	120	-94304.73	1.0174	-0.0959	0.0032	-0.0003	0.0304

year	date	rep	trt	depth	flux	Al3961	Al3961	As1890	As1890	B_2496
				cm	L/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	21-Sep	2	C	120	-94304.73	0.7074	-0.0667	0.0030	-0.0003	0.0266
2006	21-Sep	3	C	120	-94304.73	1.0599	-0.1000	0.0029	-0.0003	0.0328
2006	21-Sep	1	T	120	-100383.60	0.3896	-0.0391	0.0108	-0.0011	0.0438
2006	21-Sep	2	T	120	-100383.60	3.4063	-0.3419	0.0079	-0.0008	0.0000
2006	21-Sep	3	T	120	-100383.60	0.2674	-0.0268	0.0019	-0.0002	0.0000
2006	21-Sep	1	C	200	-102633.25	0.0717	-0.0074	0.0016	-0.0002	0.0183
2006	21-Sep	2	C	200	-102633.25	0.0901	-0.0093	0.0000	0.0000	0.0000
2006	21-Sep	3	C	200	-102633.25	0.0892	-0.0092	0.0000	0.0000	0.0000
2006	21-Sep	1	T	200	-128504.82	0.0618	-0.0079	0.0064	-0.0008	0.0422
2006	21-Sep	2	T	200	-128504.82	0.1162	-0.0149	0.0093	-0.0012	0.0000
2006	21-Sep	3	T	200	-128504.82	0.1464	-0.0188	0.0023	-0.0003	0.0107
2006	28-Sep	1	C	15	-180534.68	0.5877	-0.1061	0.0133	-0.0024	0.0257
2006	28-Sep	2	C	15	-180534.68	33.1440	-5.9836	0.0171	-0.0031	0.1079
2006	28-Sep	3	C	15	-180534.68	3.1957	-0.5769	0.0174	-0.0031	0.0762
2006	28-Sep	1	T	15	-177684.31	11.6050	-2.0620	0.0108	-0.0019	0.1141
2006	28-Sep	2	T	15	-177684.31	10.2435	-1.8201	0.0039	-0.0007	0.0719
2006	28-Sep	3	T	15	-177684.31	7.1326	-1.2674	0.0087	-0.0015	0.0257
2006	28-Sep	1	C	30	-158368.04	0.4751	-0.0752	0.0158	-0.0025	0.0662
2006	28-Sep	2	C	30	-158368.04	0.6978	-0.1105	0.0153	-0.0024	0.0000
2006	28-Sep	3	C	30	-158368.04	2.0611	-0.3264	0.0145	-0.0023	0.0248
2006	28-Sep	1	T	30	-147977.70	0.5062	-0.0749	0.0033	-0.0005	0.0125
2006	28-Sep	2	T	30	-147977.70	0.7949	-0.1176	0.0103	-0.0015	0.0608
2006	28-Sep	3	T	30	-147977.70	1.4128	-0.2091	0.0132	-0.0019	0.0486
2006	28-Sep	1	C	60	-120601.44	5.8063	-0.7003	0.0317	-0.0038	0.0703
2006	28-Sep	2	C	60	-120601.44	0.5238	-0.0632	0.0185	-0.0022	0.0120
2006	28-Sep	3	C	60	-120601.44	1.1533	-0.1391	0.0160	-0.0019	0.0000
2006	28-Sep	1	T	60	-112416.27	0.6353	-0.0714	0.0010	-0.0001	0.0188
2006	28-Sep	2	T	60	-112416.27	7.0736	-0.7952	0.0166	-0.0019	0.0284
2006	28-Sep	3	T	60	-112416.27	7.3096	-0.8217	0.0156	-0.0018	0.0365
2006	28-Sep	1	C	120	-84850.43	1.0634	-0.0902	0.0059	-0.0005	0.0034
2006	28-Sep	2	C	120	-84850.43	0.7031	-0.0597	0.0000	0.0000	0.0000
2006	28-Sep	3	C	120	-84850.43	1.4119	-0.1198	0.0000	0.0000	0.0204
2006	28-Sep	1	T	120	-90389.11	0.4152	-0.0375	0.0047	-0.0004	0.0000
2006	28-Sep	2	T	120	-90389.11	3.2825	-0.2967	0.0211	-0.0019	0.0054
2006	28-Sep	3	T	120	-90389.11	0.2301	-0.0208	0.0140	-0.0013	0.0649
2006	28-Sep	1	C	200	-94100.00	0.0257	-0.0024	0.0042	-0.0004	0.0000
2006	28-Sep	2	C	200	-94100.00	0.0365	-0.0034	0.0201	-0.0019	0.0000
2006	28-Sep	3	C	200	-94100.00	0.0367	-0.0035	0.0262	-0.0025	0.0000
2006	28-Sep	1	T	200	-112136.56	0.0666	-0.0075	0.0000	0.0000	0.0000
2006	28-Sep	2	T	200	-112136.56	0.0474	-0.0053	0.0154	-0.0017	0.0230
2006	28-Sep	3	T	200	-112136.56	0.0953	-0.0107	0.0069	-0.0008	0.0027
2006	5-Oct	1	C	15	-329586.40	0.6742	-0.2222	0.0250	-0.0082	0.0111
2006	5-Oct	2	C	15	-329586.40	13.2914	-4.3806	0.0213	-0.0070	0.0667
2006	5-Oct	3	C	15	-329586.40	6.1040	-2.0118	0.0113	-0.0037	0.0352
2006	5-Oct	1	T	15	-315044.90	4.4508	-1.4022	0.0155	-0.0049	0.1657

year	date	rep	trt	depth	flux	Al3961	Al3961	As1890	As1890	B_2496
				cm	L/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	5-Oct	2	T	15	-315044.90	4.1413	-1.3047	0.0118	-0.0037	0.0632
2006	5-Oct	3	T	15	-315044.90	3.0732	-0.9682	0.0177	-0.0056	0.0137
2006	5-Oct	1	C	30	-287675.15	1.3258	-0.3814	0.0157	-0.0045	0.0148
2006	5-Oct	2	C	30	-287675.15	0.9353	-0.2691	0.0117	-0.0034	0.0000
2006	5-Oct	3	C	30	-287675.15	2.6044	-0.7492	0.0153	-0.0044	0.0593
2006	5-Oct	1	T	30	-275493.75	0.5259	-0.1449	0.0007	-0.0002	0.0000
2006	5-Oct	2	T	30	-275493.75	1.3379	-0.3686	0.0138	-0.0038	0.0410
2006	5-Oct	3	T	30	-275493.75	1.9823	-0.5461	0.0209	-0.0058	0.0000
2006	5-Oct	1	C	60	-238106.28	5.6435	-1.3438	0.0200	-0.0048	0.0241
2006	5-Oct	2	C	60	-238106.28	0.3078	-0.0733	0.0208	-0.0050	0.0111
2006	5-Oct	3	C	60	-238106.28	0.9584	-0.2282	0.0076	-0.0018	0.0000
2006	5-Oct	1	T	60	-222630.46	0.5781	-0.1287	0.0190	-0.0042	0.0034
2006	5-Oct	2	T	60	-222630.46	8.8296	-1.9657	0.0219	-0.0049	0.0000
2006	5-Oct	3	T	60	-222630.46	7.4733	-1.6638	0.0196	-0.0044	0.0017
2006	5-Oct	1	C	120	-161276.71	1.0680	-0.1722	0.0000	0.0000	0.0113
2006	5-Oct	2	C	120	-161276.71	0.7062	-0.1139	0.0217	-0.0035	0.0111
2006	5-Oct	3	C	120	-161276.71	1.4077	-0.2270	0.0031	-0.0005	0.0000
2006	5-Oct	1	T	120	-135284.04	0.3270	-0.0442	0.0000	0.0000	0.0158
2006	5-Oct	2	T	120	-135284.04	3.4067	-0.4609	0.0218	-0.0030	0.0068
2006	5-Oct	3	T	120	-135284.04	0.2870	-0.0388	0.0257	-0.0035	0.0034
2006	5-Oct	1	C	200	-98168.24	0.0433	-0.0043	0.0191	-0.0019	0.0722
2006	5-Oct	2	C	200	-98168.24	0.0368	-0.0036	0.0122	-0.0012	0.0000
2006	5-Oct	3	C	200	-98168.24	0.0307	-0.0030	0.0143	-0.0014	0.0126
2006	5-Oct	1	T	200	-103913.84	0.0231	-0.0024	0.0107	-0.0011	0.0000
2006	5-Oct	2	T	200	-103913.84	0.0578	-0.0060	0.0272	-0.0028	0.0000
2006	5-Oct	3	T	200	-103913.84	0.1246	-0.0130	0.0000	0.0000	0.0000
2006	12-Oct	1	C	15	-136190.39	0.3852	-0.0525	0.0198	-0.0027	0.0000
2006	12-Oct	2	C	15	-136190.39	2.5013	-0.3407	0.0247	-0.0034	0.1086
2006	12-Oct	3	C	15	-136190.39	3.3205	-0.4522	0.0182	-0.0025	0.0091
2006	12-Oct	1	T	15	-133648.40	0.8032	-0.1073	0.0145	-0.0019	0.0866
2006	12-Oct	2	T	15	-133648.40	3.9109	-0.5227	0.0126	-0.0017	0.0217
2006	12-Oct	3	T	15	-133648.40	5.6579	-0.7562	0.0141	-0.0019	0.0552
2006	12-Oct	1	C	30	-115765.70	4.3550	-0.5042	0.0149	-0.0017	0.0210
2006	12-Oct	2	C	30	-115765.70	1.0964	-0.1269	0.0197	-0.0023	0.0000
2006	12-Oct	3	C	30	-115765.70	2.5087	-0.2904	0.0136	-0.0016	0.0000
2006	12-Oct	1	T	30	-113279.22	1.2404	-0.1405	0.0215	-0.0024	0.0596
2006	12-Oct	2	T	30	-113279.22	2.4087	-0.2729	0.0135	-0.0015	0.0000
2006	12-Oct	3	T	30	-113279.22	4.0175	-0.4551	0.0164	-0.0019	0.0000
2006	12-Oct	1	C	60	-97935.85	4.9260	-0.4824	0.0158	-0.0015	0.0000
2006	12-Oct	2	C	60	-97935.85	0.7138	-0.0699	0.0174	-0.0017	0.0055
2006	12-Oct	3	C	60	-97935.85	0.9480	-0.0928	0.0153	-0.0015	0.0000
2006	12-Oct	1	T	60	-109544.96	0.6460	-0.0708	0.0154	-0.0017	0.0162
2006	12-Oct	2	T	60	-109544.96	8.1664	-0.8946	0.0167	-0.0018	0.0000
2006	12-Oct	3	T	60	-109544.96	6.2276	-0.6822	0.0127	-0.0014	0.0248
2006	12-Oct	1	C	120	-132032.85	1.1639	-0.1537	0.0229	-0.0030	0.0476
2006	12-Oct	2	C	120	-132032.85	0.6376	-0.0842	0.0150	-0.0020	0.0000

year	date	rep	trt	depth	flux	Al3961	Al3961	As1890	As1890	B_2496
				cm	L/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	12-Oct	3	C	120	-132032.85	1.2216	-0.1613	0.0013	-0.0002	0.0057
2006	12-Oct	1	T	120	-151073.23	0.4031	-0.0609	0.0130	-0.0020	0.0090
2006	12-Oct	2	T	120	-151073.23	3.3213	-0.5018	0.0163	-0.0025	0.0199
2006	12-Oct	3	T	120	-151073.23	0.3578	-0.0540	0.0129	-0.0019	0.0000
2006	12-Oct	1	C	200	-142031.94	0.0153	-0.0022	0.0168	-0.0024	0.0000
2006	12-Oct	2	C	200	-142031.94	0.0325	-0.0046	0.0195	-0.0028	0.0182
2006	12-Oct	3	C	200	-142031.94	0.0418	-0.0059	0.0061	-0.0009	0.0000
2006	12-Oct	1	T	200	-127258.33	0.0116	-0.0015	0.0106	-0.0013	0.0343
2006	12-Oct	2	T	200	-127258.33	0.0703	-0.0089	0.0149	-0.0019	0.0000
2006	12-Oct	3	T	200	-127258.33	0.1075	-0.0137	0.0100	-0.0013	0.0000
2006	19-Oct	1	C	15	-465708.75	0.5061	-0.2357	0.0200	-0.0093	0.0000
2006	19-Oct	2	C	15	-465708.75	2.1457	-0.9993	0.0000	0.0000	0.0781
2006	19-Oct	3	C	15	-465708.75	2.4911	-1.1601	0.0162	-0.0075	0.0385
2006	19-Oct	1	T	15	-440390.25	0.4256	-0.1875	0.0154	-0.0068	0.0873
2006	19-Oct	2	T	15	-440390.25	2.5545	-1.1250	0.0171	-0.0075	0.0783
2006	19-Oct	3	T	15	-440390.25	3.7964	-1.6719	0.0193	-0.0085	0.0301
2006	19-Oct	1	C	30	-401552.26	4.3972	-1.7657	0.0199	-0.0080	0.0181
2006	19-Oct	2	C	30	-401552.26	0.3766	-0.1512	0.0132	-0.0053	0.0089
2006	19-Oct	3	C	30	-401552.26	2.8498	-1.1443	0.0073	-0.0029	0.0433
2006	19-Oct	1	T	30	-351474.14	2.0624	-0.7249	0.0180	-0.0063	0.0218
2006	19-Oct	2	T	30	-351474.14	2.0804	-0.7312	0.0189	-0.0066	0.0221
2006	19-Oct	3	T	30	-351474.14	6.6857	-2.3499	0.0000	0.0000	0.0090
2006	19-Oct	1	C	60	-264278.35	4.1203	-1.0889	0.0222	-0.0059	0.0542
2006	19-Oct	2	C	60	-264278.35	0.3907	-0.1033	0.0101	-0.0027	0.0357
2006	19-Oct	3	C	60	-264278.35	0.8897	-0.2351	0.0156	-0.0041	0.0048
2006	19-Oct	1	T	60	-195095.37	0.6663	-0.1300	0.0149	-0.0029	0.0200
2006	19-Oct	2	T	60	-195095.37	8.1659	-1.5931	0.0180	-0.0035	0.0000
2006	19-Oct	3	T	60	-195095.37	5.6048	-1.0935	0.0127	-0.0025	0.0221
2006	19-Oct	1	C	120	-137888.33	1.0667	-0.1471	0.0000	0.0000	0.0317
2006	19-Oct	2	C	120	-137888.33	0.6304	-0.0869	0.0096	-0.0013	0.0104
2006	19-Oct	3	C	120	-137888.33	1.1585	-0.1597	0.0000	0.0000	0.0170
2006	19-Oct	1	T	120	-130966.06	0.0112	-0.0015	0.0235	-0.0031	0.0000
2006	19-Oct	2	T	120	-130966.06	3.1535	-0.4130	0.0161	-0.0021	0.0161
2006	19-Oct	3	T	120	-130966.06	0.0644	-0.0084	0.0164	-0.0022	0.0080
2006	19-Oct	1	C	200	-132244.03	0.0134	-0.0018	0.0045	-0.0006	0.0104
2006	19-Oct	2	C	200	-132244.03	0.0409	-0.0054	0.0107	-0.0014	0.0535
2006	19-Oct	3	C	200	-132244.03	0.0446	-0.0059	0.0098	-0.0013	0.0417
2006	19-Oct	1	T	200	-133793.98	0.3842	-0.0514	0.0155	-0.0021	0.0000
2006	19-Oct	2	T	200	-133793.98	0.0734	-0.0098	0.0163	-0.0022	0.0000
2006	19-Oct	3	T	200	-133793.98	0.1086	-0.0145	0.0201	-0.0027	0.0040
2006	26-Oct	1	C	15	-1637338.25	0.2764	-0.4526	0.0155	-0.0254	0.0000
2006	26-Oct	2	C	15	-1637338.25	1.0902	-1.7851	0.0092	-0.0150	0.0381
2006	26-Oct	3	C	15	-1637338.25	0.3275	-0.5363	0.0165	-0.0271	0.0000
2006	26-Oct	1	T	15	-1646731.08	0.1602	-0.2637	0.0073	-0.0121	0.1298
2006	26-Oct	2	T	15	-1646731.08	1.0701	-1.7621	0.0144	-0.0238	0.0349
2006	26-Oct	3	T	15	-1646731.08	0.2780	-0.4578	0.0102	-0.0167	0.0000

year	date	rep	trt	depth	flux	Al3961	Al3961	As1890	As1890	B_2496
				cm	L/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	26-Oct	1	C	30	-1669868.64	5.9761	-9.9792	0.0000	0.0000	0.0430
2006	26-Oct	2	C	30	-1669868.64	0.1197	-0.1999	0.0061	-0.0102	0.0091
2006	26-Oct	3	C	30	-1669868.64	4.4893	-7.4966	0.0042	-0.0069	0.0328
2006	26-Oct	1	T	30	-1696656.28	2.0643	-3.5024	0.0098	-0.0166	0.0112
2006	26-Oct	2	T	30	-1696656.28	2.2282	-3.7805	0.0140	-0.0238	0.0455
2006	26-Oct	3	T	30	-1696656.28	0.8546	-1.4500	0.0130	-0.0220	0.0044
2006	26-Oct	1	C	60	-1684126.09	4.0495	-6.8199	0.0000	0.0000	0.0000
2006	26-Oct	2	C	60	-1684126.09	0.5780	-0.9734	0.0052	-0.0088	0.0183
2006	26-Oct	3	C	60	-1684126.09	0.7965	-1.3413	0.0079	-0.0133	0.0335
2006	26-Oct	1	T	60	-1756068.85	1.6162	-2.8381	0.0131	-0.0230	0.0000
2006	26-Oct	2	T	60	-1756068.85	11.8049	-20.7303	0.0033	-0.0058	0.0000
2006	26-Oct	3	T	60	-1756068.85	2.9040	-5.0996	0.0088	-0.0154	0.0378
2006	26-Oct	1	C	120	-1580477.85	0.6981	-1.1034	0.0028	-0.0044	0.0259
2006	26-Oct	2	C	120	-1580477.85	0.7248	-1.1455	0.0175	-0.0277	0.0213
2006	26-Oct	3	C	120	-1580477.85	1.7421	-2.7533	0.0099	-0.0156	0.0000
2006	26-Oct	1	T	120	-1594986.83	0.1656	-0.2642	0.0090	-0.0144	0.0243
2006	26-Oct	2	T	120	-1594986.83	2.9829	-4.7577	0.0000	0.0000	0.0000
2006	26-Oct	3	T	120	-1594986.83	0.0556	-0.0887	0.0103	-0.0164	0.0131
2006	26-Oct	1	C	200	-1424272.85	0.0038	-0.0054	0.0188	-0.0268	0.0000
2006	26-Oct	2	C	200	-1424272.85	0.0565	-0.0804	0.0000	0.0000	0.0068
2006	26-Oct	3	C	200	-1424272.85	0.0179	-0.0255	0.0120	-0.0171	0.0320
2006	26-Oct	1	T	200	-1346661.36	0.0076	-0.0103	0.0000	0.0000	0.0000
2006	26-Oct	2	T	200	-1346661.36	0.0370	-0.0499	0.0000	0.0000	0.0328
2006	26-Oct	3	T	200	-1346661.36	0.0976	-0.1314	0.0176	-0.0237	0.0291
2006	2-Nov	1	C	15	39237.96	0.3046	0.0120	0.0000	0.0000	0.0140
2006	2-Nov	2	C	15	39237.96	0.1209	0.0047	0.0111	0.0004	0.0327
2006	2-Nov	3	C	15	39237.96	0.1877	0.0074	0.0134	0.0005	0.0451
2006	2-Nov	1	T	15	27477.75	0.1726	0.0047	0.0188	0.0005	0.0837
2006	2-Nov	2	T	15	27477.75	0.5004	0.0137	0.0109	0.0003	0.0768
2006	2-Nov	3	T	15	27477.75	0.0329	0.0009	0.0097	0.0003	0.0313
2006	2-Nov	1	C	30	-4107.80	2.4819	-0.0102	0.0057	0.0000	0.0047
2006	2-Nov	2	C	30	-4107.80	0.2617	-0.0011	0.0000	0.0000	0.0475
2006	2-Nov	3	C	30	-4107.80	5.3586	-0.0220	0.0123	-0.0001	0.0249
2006	2-Nov	1	T	30	-30247.25	2.3015	-0.0696	0.0000	0.0000	0.0000
2006	2-Nov	2	T	30	-30247.25	1.9526	-0.0591	0.0087	-0.0003	0.0580
2006	2-Nov	3	T	30	-30247.25	0.6967	-0.0211	0.0109	-0.0003	0.0125
2006	2-Nov	1	C	60	-62302.60	4.5543	-0.2837	0.0113	-0.0007	0.0093
2006	2-Nov	2	C	60	-62302.60	0.6766	-0.0422	0.0128	-0.0008	0.0280
2006	2-Nov	3	C	60	-62302.60	0.9022	-0.0562	0.0071	-0.0004	0.0280
2006	2-Nov	1	T	60	-100131.25	1.5612	-0.1563	0.0158	-0.0016	0.0313
2006	2-Nov	2	T	60	-100131.25	7.4355	-0.7445	0.0126	-0.0013	0.0125
2006	2-Nov	3	T	60	-100131.25	2.6184	-0.2622	0.0123	-0.0012	0.0423
2006	2-Nov	1	C	120	-137168.54	1.5781	-0.2165	0.0144	-0.0020	0.0078
2006	2-Nov	2	C	120	-137168.54	0.6806	-0.0934	0.0110	-0.0015	0.0264
2006	2-Nov	3	C	120	-137168.54	1.2993	-0.1782	0.0040	-0.0006	0.0000
2006	2-Nov	1	T	120	-205662.50	0.4008	-0.0824	0.0092	-0.0019	0.0047

year	date	rep	trt	depth	flux	Al3961	Al3961	As1890	As1890	B_2496
				cm	L/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	2-Nov	2	T	120	-205662.50	3.5656	-0.7333	0.0104	-0.0021	0.0000
2006	2-Nov	3	T	120	-205662.50	0.1302	-0.0268	0.0009	-0.0002	0.0127
2006	2-Nov	1	C	200	-276157.30	0.0119	-0.0033	0.0096	-0.0026	0.0047
2006	2-Nov	2	C	200	-276157.30	0.0590	-0.0163	0.0145	-0.0040	0.0000
2006	2-Nov	3	C	200	-276157.30	0.0179	-0.0049	0.0085	-0.0024	0.0000
2006	2-Nov	1	T	200	-384600.00	0.0030	-0.0011	0.0023	-0.0009	0.0392
2006	2-Nov	2	T	200	-384600.00	0.0662	-0.0255	0.0111	-0.0043	0.0455
2006	2-Nov	3	T	200	-384600.00	0.0706	-0.0272	0.0016	-0.0006	0.0127
2006	9-Nov	1	C	15	-477660.27	0.2132	-0.1019	0.0084	-0.0040	0.0648
2006	9-Nov	2	C	15	-477660.27	0.0415	-0.0198	0.0000	0.0000	0.0437
2006	9-Nov	3	C	15	-477660.27	0.4478	-0.2139	0.0078	-0.0037	0.0366
2006	9-Nov	1	T	15	-454880.81	0.0671	-0.0305	0.0088	-0.0040	0.0633
2006	9-Nov	2	T	15	-454880.81	0.4950	-0.2251	0.0151	-0.0069	0.0452
2006	9-Nov	3	T	15	-454880.81	0.0935	-0.0425	0.0000	0.0000	0.0380
2006	9-Nov	1	C	30	-334129.09	4.6319	-1.5476	0.0103	-0.0034	0.0196
2006	9-Nov	2	C	30	-334129.09	0.4988	-0.1667	0.0108	-0.0036	0.0397
2006	9-Nov	3	C	30	-334129.09	0.0000	0.0000	0.0000	0.0000	0.0000
2006	9-Nov	1	T	30	-285986.39	0.5509	-0.1575	0.0000	0.0000	0.0219
2006	9-Nov	2	T	30	-285986.39	0.0000	0.0000	0.0000	0.0000	0.0000
2006	9-Nov	3	T	30	-285986.39	0.0000	0.0000	0.0000	0.0000	0.0000
2006	9-Nov	1	C	60	-82770.06	2.6911	-0.2227	0.0117	-0.0010	0.0527
2006	9-Nov	2	C	60	-82770.06	0.1262	-0.0104	0.0046	-0.0004	0.0184
2006	9-Nov	3	C	60	-82770.06	0.8497	-0.0703	0.0111	-0.0009	0.0000
2006	9-Nov	1	T	60	-31011.21	1.6485	-0.0511	0.0081	-0.0003	0.0219
2006	9-Nov	2	T	60	-31011.21	9.8771	-0.3063	0.0009	0.0000	0.0196
2006	9-Nov	3	T	60	-31011.21					
2006	9-Nov	1	C	120	-10650.56	1.4009	-0.0149	0.0000	0.0000	0.0000
2006	9-Nov	2	C	120	-10650.56	0.6772	-0.0072	0.0115	-0.0001	0.0079
2006	9-Nov	3	C	120	-10650.56	1.8671	-0.0199	0.0077	-0.0001	0.0016
2006	9-Nov	1	T	120	-39953.09	0.2451	-0.0098	0.0103	-0.0004	0.0452
2006	9-Nov	2	T	120	-39953.09	3.4359	-0.1373	0.0139	-0.0006	0.0392
2006	9-Nov	3	T	120	-39953.09	0.1135	-0.0045	0.0097	-0.0004	0.0151
2006	9-Nov	1	C	200	-119118.64	0.0126	-0.0015	0.0097	-0.0012	0.0509
2006	9-Nov	2	C	200	-119118.64	0.0858	-0.0102	0.0146	-0.0017	0.0493
2006	9-Nov	3	C	200	-119118.64	0.0477	-0.0057	0.0089	-0.0011	0.0000
2006	9-Nov	1	T	200	-169707.02	0.0042	-0.0007	0.0043	-0.0007	0.0105
2006	9-Nov	2	T	200	-169707.02	0.0659	-0.0112	0.0089	-0.0015	0.0361
2006	9-Nov	3	T	200	-169707.02	0.1048	-0.0178	0.0023	-0.0004	0.0136
2006	16-Nov	1	C	15	-587425.68	0.2936	-0.1725	0.0113	-0.0067	0.0097
2006	16-Nov	2	C	15	-587425.68	0.0436	-0.0256	0.0041	-0.0024	0.0000
2006	16-Nov	3	C	15	-587425.68	0.3124	-0.1835	0.0146	-0.0086	0.0000
2006	16-Nov	1	T	15	-600326.65	0.0767	-0.0461	0.0075	-0.0045	0.0572
2006	16-Nov	2	T	15	-600326.65	0.3964	-0.2380	0.0045	-0.0027	0.0617
2006	16-Nov	3	T	15	-600326.65	0.0919	-0.0551	0.0119	-0.0072	0.0341
2006	16-Nov	1	C	30	-558404.37	3.6250	-2.0242	0.0174	-0.0097	0.0000
2006	16-Nov	2	C	30	-558404.37	0.0102	-0.0057	0.0081	-0.0045	0.0291

year	date	rep	trt	depth	flux	Al3961	Al3961	As1890	As1890	B_2496
				cm	L/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	16-Nov	3	C	30	-558404.37	1.8959	-1.0587	0.0270	-0.0150	0.0258
2006	16-Nov	1	T	30	-601938.23	0.4414	-0.2657	0.0094	-0.0057	0.0000
2006	16-Nov	2	T	30	-601938.23	1.8183	-1.0945	0.0024	-0.0015	0.0341
2006	16-Nov	3	T	30	-601938.23	0.4553	-0.2740	0.0066	-0.0040	0.0503
2006	16-Nov	1	C	60	-553239.61	3.3973	-1.8795	0.0154	-0.0085	0.0000
2006	16-Nov	2	C	60	-553239.61	0.2046	-0.1132	0.0088	-0.0049	0.0000
2006	16-Nov	3	C	60	-553239.61	0.7843	-0.4339	0.0000	0.0000	0.0000
2006	16-Nov	1	T	60	-569166.80	0.6735	-0.3834	0.0100	-0.0057	0.0254
2006	16-Nov	2	T	60	-569166.80	4.4543	-2.5352	0.0056	-0.0032	0.0000
2006	16-Nov	3	T	60	-569166.80	2.1134	-1.2029	0.0087	-0.0049	0.0000
2006	16-Nov	1	C	120	-243897.01	0.8447	-0.2060	0.0064	-0.0016	0.0000
2006	16-Nov	2	C	120	-243897.01	0.6741	-0.1644	0.0061	-0.0015	0.0275
2006	16-Nov	3	C	120	-243897.01	1.8070	-0.4407	0.0000	0.0000	0.0000
2006	16-Nov	1	T	120	-160718.42	0.2657	-0.0427	0.0037	-0.0006	0.0260
2006	16-Nov	2	T	120	-160718.42	3.5545	-0.5713	0.0061	-0.0010	0.0000
2006	16-Nov	3	T	120	-160718.42	0.4772	-0.0767	0.0083	-0.0013	0.0325
2006	16-Nov	1	C	200	-80304.96	0.0122	-0.0010	0.0113	-0.0009	0.0000
2006	16-Nov	2	C	200	-80304.96	0.0540	-0.0043	0.0123	-0.0010	0.0000
2006	16-Nov	3	C	200	-80304.96	0.0308	-0.0025	0.0004	0.0000	0.0086
2006	16-Nov	1	T	200	-101776.69	0.0038	-0.0004	0.0000	0.0000	0.0000
2006	16-Nov	2	T	200	-101776.69	0.0722	-0.0074	0.0086	-0.0009	0.0000
2006	16-Nov	3	T	200	-101776.69	0.1152	-0.0117	0.0073	-0.0007	0.0000
2006	23-Nov	1	C	15	-255108.10	0.3407	-0.0869	0.0061	-0.0016	0.0000
2006	23-Nov	2	C	15	-255108.10	0.0352	-0.0090	0.0000	0.0000	0.0017
2006	23-Nov	3	C	15	-255108.10	0.2535	-0.0647	0.0032	-0.0008	0.0409
2006	23-Nov	1	T	15	-261951.89	0.0521	-0.0137	0.0041	-0.0011	0.0702
2006	23-Nov	2	T	15	-261951.89	0.2828	-0.0741	0.0005	-0.0001	0.0982
2006	23-Nov	3	T	15	-261951.89	0.1030	-0.0270	0.0000	0.0000	0.0000
2006	23-Nov	1	C	30	-247347.16	4.4639	-1.1041	0.0055	-0.0014	0.0454
2006	23-Nov	2	C	30	-247347.16	0.0450	-0.0111	0.0000	0.0000	0.0000
2006	23-Nov	3	C	30	-247347.16	1.9029	-0.4707	0.0073	-0.0018	0.0765
2006	23-Nov	1	T	30	-262829.54	0.9240	-0.2428	0.0000	0.0000	0.0315
2006	23-Nov	2	T	30	-262829.54	1.5411	-0.4051	0.0000	0.0000	0.0232
2006	23-Nov	3	T	30	-262829.54	0.6518	-0.1713	0.0000	0.0000	0.0593
2006	23-Nov	1	C	60	-235419.59	3.2938	-0.7754	0.0000	0.0000	0.0314
2006	23-Nov	2	C	60	-235419.59	0.0639	-0.0150	0.0007	-0.0002	0.0071
2006	23-Nov	3	C	60	-235419.59	0.8781	-0.2067	0.0025	-0.0006	0.0000
2006	23-Nov	1	T	60	-266942.25	1.6825	-0.4491	0.0000	0.0000	0.0000
2006	23-Nov	2	T	60	-266942.25	3.4055	-0.9091	0.0038	-0.0010	0.0268
2006	23-Nov	3	T	60	-266942.25	2.7662	-0.7384	0.0041	-0.0011	0.0000
2006	23-Nov	1	C	120	-253915.49	1.1085	-0.2815	0.0023	-0.0006	0.0000
2006	23-Nov	2	C	120	-253915.49	0.6845	-0.1738	0.0000	0.0000	0.0000
2006	23-Nov	3	C	120	-253915.49	1.7397	-0.4417	0.0049	-0.0012	0.0249
2006	23-Nov	1	T	120	-286916.46	0.2512	-0.0721	0.0000	0.0000	0.0000
2006	23-Nov	2	T	120	-286916.46	3.7957	-1.0890	0.0077	-0.0022	0.0589
2006	23-Nov	3	T	120	-286916.46	0.7917	-0.2271	0.0000	0.0000	0.0052

year	date	rep	trt	depth	flux	Al3961	Al3961	As1890	As1890	B_2496
				cm	L/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	23-Nov	1	C	200	-247771.73	0.0122	-0.0030	0.0049	-0.0012	0.0000
2006	23-Nov	2	C	200	-247771.73	0.0430	-0.0107	0.0000	0.0000	0.0000
2006	23-Nov	3	C	200	-247771.73	0.0431	-0.0107	0.0043	-0.0011	0.0196
2006	23-Nov	1	T	200	-190699.93	0.0109	-0.0021	0.0000	0.0000	0.0071
2006	23-Nov	2	T	200	-190699.93	0.0739	-0.0141	0.0000	0.0000	0.0000
2006	23-Nov	3	T	200	-190699.93	0.1478	-0.0282	0.0000	0.0000	0.0401
2006	30-Nov	1	C	15	-305007.64	0.1476	-0.0450	0.0000	0.0000	0.0000
2006	30-Nov	2	C	15	-305007.64	0.7869	-0.2400	0.0000	0.0000	0.0139
2006	30-Nov	3	C	15	-305007.64	0.0419	-0.0128	0.0031	-0.0010	0.0087
2006	30-Nov	1	T	15	-316738.34	0.1840	-0.0583	0.0022	-0.0007	0.0552
2006	30-Nov	2	T	15	-316738.34	0.2515	-0.0797	0.0009	-0.0003	0.0380
2006	30-Nov	3	T	15	-316738.34	0.1466	-0.0464	0.0000	0.0000	0.0000
2006	30-Nov	1	C	30	-310935.27	3.4106	-1.0605	0.0022	-0.0007	0.0435
2006	30-Nov	2	C	30	-310935.27	0.0185	-0.0058	0.0000	0.0000	0.0000
2006	30-Nov	3	C	30	-310935.27	1.8575	-0.5776	0.0015	-0.0005	0.0000
2006	30-Nov	1	T	30	-310655.41	0.2180	-0.0677	0.0005	-0.0001	0.0000
2006	30-Nov	2	T	30	-310655.41	1.5908	-0.4942	0.0051	-0.0016	0.0000
2006	30-Nov	3	T	30	-310655.41	0.9859	-0.3063	0.0012	-0.0004	0.0000
2006	30-Nov	1	C	60	-288426.09	3.3521	-0.9668	0.0000	0.0000	0.0052
2006	30-Nov	2	C	60	-288426.09	0.0388	-0.0112	0.0000	0.0000	0.0000
2006	30-Nov	3	C	60	-288426.09	0.8155	-0.2352	0.0000	0.0000	0.0000
2006	30-Nov	1	T	60	-290296.11	1.3960	-0.4052	0.0127	-0.0037	0.0374
2006	30-Nov	2	T	60	-290296.11	3.2224	-0.9355	0.0073	-0.0021	0.0294
2006	30-Nov	3	T	60	-290296.11	2.6589	-0.7719	0.0037	-0.0011	0.0587
2006	30-Nov	1	C	120	-243074.81	1.7107	-0.4158	0.0000	0.0000	0.0261
2006	30-Nov	2	C	120	-243074.81	0.6860	-0.1668	0.0023	-0.0006	0.0330
2006	30-Nov	3	C	120	-243074.81	1.8920	-0.4599	0.0000	0.0000	0.0000
2006	30-Nov	1	T	120	-237061.09	0.2987	-0.0708	0.0061	-0.0015	0.0415
2006	30-Nov	2	T	120	-237061.09	3.8495	-0.9126	0.0000	0.0000	0.0000
2006	30-Nov	3	T	120	-237061.09	0.4963	-0.1177	0.0050	-0.0012	0.0225
2006	30-Nov	1	C	200	-230713.33	0.0190	-0.0044	0.0000	0.0000	0.0191
2006	30-Nov	2	C	200	-230713.33	0.0679	-0.0157	0.0000	0.0000	0.0000
2006	30-Nov	3	C	200	-230713.33	0.0457	-0.0105	0.0000	0.0000	0.0000
2006	30-Nov	1	T	200	-225009.09	0.0113	-0.0025	0.0000	0.0000	0.0000
2006	30-Nov	2	T	200	-225009.09	0.1040	-0.0234	0.0024	-0.0005	0.0432
2006	30-Nov	3	T	200	-225009.09	0.1430	-0.0322	0.0026	-0.0006	0.0155
2006	7-Dec	1	T	15	-87728.53					
2006	7-Dec	2	T	15	-87728.53					
2006	7-Dec	3	T	15	-87728.53	0.2750	-0.0241	0.0000	0.0000	0.0092
2006	7-Dec	1	C	30	-17021.35	2.8937	-0.0493	0.0030	-0.0001	0.0985
2006	7-Dec	2	C	30	-17021.35	0.0384	-0.0007	0.0000	0.0000	0.0295
2006	7-Dec	3	C	30	-17021.35					
2006	7-Dec	1	T	30	7309.12	0.0954	0.0007	0.0062	0.0000	0.0274
2006	7-Dec	2	T	30	7309.12	1.8183	0.0133	0.0041	0.0000	0.0855
2006	7-Dec	3	T	30	7309.12	0.9606	0.0070	0.0008	0.0000	0.0136
2006	7-Dec	1	C	60	7674.77	3.0096	0.0231	0.0009	0.0000	0.0237

year	date	rep	trt	depth	flux	Al3961	Al3961	As1890	As1890	B_2496
				cm	L/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	7-Dec	2	C	60	7674.77	0.2797	0.0021	0.0014	0.0000	0.0000
2006	7-Dec	3	C	60	7674.77	0.9011	0.0069	0.0013	0.0000	0.0091
2006	7-Dec	1	T	60	-15370.04	1.8588	-0.0286	0.0016	0.0000	0.0068
2006	7-Dec	2	T	60	-15370.04	5.5542	-0.0854	0.0095	-0.0001	0.0547
2006	7-Dec	3	T	60	-15370.04	3.2835	-0.0505	0.0019	0.0000	0.0017
2006	7-Dec	1	C	120	-65571.51	1.8817	-0.1234	0.0069	-0.0005	0.0000
2006	7-Dec	2	C	120	-65571.51	0.7390	-0.0485	0.0061	-0.0004	0.0365
2006	7-Dec	3	C	120	-65571.51	1.4520	-0.0952	0.0041	-0.0003	0.0000
2006	7-Dec	1	T	120	-105763.13	0.2878	-0.0304	0.0009	-0.0001	0.0051
2006	7-Dec	2	T	120	-105763.13	4.0384	-0.4271	0.0000	0.0000	0.0530
2006	7-Dec	3	T	120	-105763.13	1.0950	-0.1158	0.0000	0.0000	0.0000
2006	7-Dec	1	C	200	-174531.11	0.0280	-0.0049	0.0000	0.0000	0.0000
2006	7-Dec	2	C	200	-174531.11	0.0972	-0.0170	0.0000	0.0000	0.0000
2006	7-Dec	3	C	200	-174531.11	0.0716	-0.0125	0.0000	0.0000	0.0073
2006	7-Dec	1	T	200	-206750.31	0.0118	-0.0024	0.0000	0.0000	0.0000
2006	7-Dec	2	T	200	-206750.31	0.1053	-0.0218	0.0035	-0.0007	0.0000
2006	7-Dec	3	T	200	-206750.31	0.1196	-0.0247	0.0000	0.0000	0.0383
2006	14-Dec	1	C	15	22519.30	0.0156	0.0004	0.0066	0.0001	0.0546
2006	14-Dec	2	C	15	22519.30	0.6023	0.0136	0.0000	0.0000	0.0341
2006	14-Dec	3	C	15	22519.30	0.0524	0.0012	0.0134	0.0003	0.0384
2006	14-Dec	1	T	15	339.56	0.0825	0.0000	0.0015	0.0000	0.0474
2006	14-Dec	2	T	15	339.56	0.3138	0.0001	0.0000	0.0000	0.0596
2006	14-Dec	3	T	15	339.56	0.1360	0.0000	0.0023	0.0000	0.0000
2006	14-Dec	1	C	30	-25376.28	5.4784	-0.1390	0.0033	-0.0001	0.0717
2006	14-Dec	2	C	30	-25376.28	0.0147	-0.0004	0.0040	-0.0001	0.0211
2006	14-Dec	3	C	30	-25376.28	2.6796	-0.0680	0.0208	-0.0005	0.0993
2006	14-Dec	1	T	30	-93163.53	0.2151	-0.0200	0.0000	0.0000	0.0474
2006	14-Dec	2	T	30	-93163.53	1.8165	-0.1692	0.0061	-0.0006	0.0192
2006	14-Dec	3	T	30	-93163.53	0.8770	-0.0817	0.0000	0.0000	0.0385
2006	14-Dec	1	C	60	-87455.82	3.1672	-0.2770	0.0037	-0.0003	0.0631
2006	14-Dec	2	C	60	-87455.82	0.1143	-0.0100	0.0056	-0.0005	0.0768
2006	14-Dec	3	C	60	-87455.82	0.6749	-0.0590	0.0077	-0.0007	0.0403
2006	14-Dec	1	T	60	-84409.54	1.6394	-0.1384	0.0000	0.0000	0.0596
2006	14-Dec	2	T	60	-84409.54	3.0659	-0.2588	0.0000	0.0000	0.0000
2006	14-Dec	3	T	60	-84409.54	2.8793	-0.2430	0.0000	0.0000	0.0000
2006	14-Dec	1	C	120	-49969.57	1.7855	-0.0892	0.0051	-0.0003	0.0358
2006	14-Dec	2	C	120	-49969.57	0.6234	-0.0311	0.0059	-0.0003	0.0230
2006	14-Dec	3	C	120	-49969.57	1.8956	-0.0947	0.0000	0.0000	0.0255
2006	14-Dec	1	T	120	-61151.07	0.3156	-0.0193	0.0000	0.0000	0.0000
2006	14-Dec	2	T	120	-61151.07	3.9596	-0.2421	0.0000	0.0000	0.0365
2006	14-Dec	3	T	120	-61151.07	0.5739	-0.0351	0.0000	0.0000	0.0327
2006	14-Dec	1	C	200	-96988.21	0.0445	-0.0043	0.0000	0.0000	0.0000
2006	14-Dec	2	C	200	-96988.21	0.0807	-0.0078	0.0000	0.0000	0.0537
2006	14-Dec	3	C	200	-96988.21	0.0599	-0.0058	0.0137	-0.0013	0.0365
2006	14-Dec	1	T	200	-129082.14	0.0122	-0.0016	0.0000	0.0000	0.0000
2006	14-Dec	2	T	200	-129082.14	0.1199	-0.0155	0.0000	0.0000	0.0212

year	date	rep	trt	depth	flux	Al3961	Al3961	As1890	As1890	B_2496
				cm	L/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	14-Dec	3	T	200	-129082.14	0.1063	-0.0137	0.0000	0.0000	0.0000

year	date	rep	trt	depth	B_2496	Ba4934	Ba4934	Ca3179	Ca3179	Cd2265
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	21-Apr	1	C	15	0.0000	0.0021	-0.0002	0.4441	-0.0347	0.0000
2006	21-Apr	2	C	15	-0.0025	0.0215	-0.0017	1.9565	-0.1527	0.0005
2006	21-Apr	3	C	15	-0.0029	0.0211	-0.0016	0.3921	-0.0306	0.0000
2006	21-Apr	1	T	15	-0.0069	0.0057	-0.0004	1.7313	-0.1234	0.0014
2006	21-Apr	2	T	15	-0.0016	0.0988	-0.0070	10.0453	-0.7163	0.0010
2006	21-Apr	3	T	15	0.0000	0.0017	-0.0001	0.4449	-0.0317	0.0000
2006	21-Apr	1	C	30	-0.0010	0.0517	-0.0021	3.8333	-0.1593	0.0004
2006	21-Apr	2	C	30	-0.0012	0.0090	-0.0004	1.6882	-0.0702	0.0000
2006	21-Apr	3	C	30						
2006	21-Apr	1	T	30	-0.0002	0.0019	-0.0001	0.2814	-0.0104	0.0010
2006	21-Apr	2	T	30						
2006	21-Apr	3	T	30	-0.0021	0.0120	-0.0004	1.4924	-0.0550	0.0001
2006	21-Apr	1	C	60						
2006	21-Apr	2	C	60	0.0000	0.0100	-0.0002	0.7933	-0.0175	0.0000
2006	21-Apr	3	C	60	-0.0003	0.0849	-0.0019	1.5089	-0.0332	0.0003
2006	27-Apr	1	C	15	0.0000	0.0027	-0.0032	0.7223	-0.8324	0.0000
2006	27-Apr	2	C	15	-0.0331	0.0336	-0.0387	2.8340	-3.2657	0.0009
2006	27-Apr	3	C	15	-0.0485	0.0252	-0.0290	0.3597	-0.4145	0.0002
2006	27-Apr	1	T	15	-0.0330	0.0055	-0.0063	1.3917	-1.5860	0.0002
2006	27-Apr	2	T	15	-0.0346	0.0610	-0.0695	4.0642	-4.6314	0.0004
2006	27-Apr	3	T	15	0.0000	0.0053	-0.0061	0.8461	-0.9642	0.0003
2006	27-Apr	1	C	30	-0.0147	0.0545	-0.0591	3.1762	-3.4436	0.0004
2006	27-Apr	2	C	30	-0.0088	0.0099	-0.0108	0.6396	-0.6935	0.0001
2006	27-Apr	3	C	30	-0.0441	0.1171	-0.1270	1.6753	-1.8164	0.0007
2006	27-Apr	1	T	30	-0.0088	0.0284	-0.0302	1.4685	-1.5599	0.0002
2006	27-Apr	2	T	30	-0.0352	0.2395	-0.2544	4.5861	-4.8717	0.0007
2006	27-Apr	3	T	30	-0.0044	0.0672	-0.0714	4.8119	-5.1115	0.0000
2006	27-Apr	1	C	60	0.0000	0.2063	-0.1872	4.8746	-4.4239	0.0006
2006	27-Apr	2	C	60	0.0000	0.0096	-0.0087	0.5592	-0.5075	0.0000
2006	27-Apr	3	C	60	0.0000	0.0716	-0.0649	1.1591	-1.0519	0.0001
2006	27-Apr	1	T	60	-0.0199	0.0253	-0.0203	1.2452	-0.9998	0.0000
2006	27-Apr	2	T	60	-0.0092	0.4377	-0.3514	15.3634	-12.3361	0.0012
2006	27-Apr	3	T	60	-0.0011	0.1724	-0.1384	2.8292	-2.2717	0.0000
2006	27-Apr	1	C	120	-0.0021	0.0595	-0.0232	1.4735	-0.5730	0.0003
2006	27-Apr	2	C	120	0.0000	0.0626	-0.0243	1.9159	-0.7451	0.0002
2006	27-Apr	3	C	120	0.0000	0.1542	-0.0600	4.4365	-1.7253	0.0006
2006	27-Apr	1	T	120	0.0000	0.0332	-0.0047	1.5554	-0.2215	0.0000
2006	27-Apr	2	T	120						
2006	27-Apr	3	T	120	0.0000	0.0131	-0.0019	1.2055	-0.1717	0.0000
2006	27-Apr	1	C	200	0.0000	0.0029	0.0000	0.2710	-0.0009	0.0003
2006	27-Apr	2	C	200	-0.0001	0.0070	0.0000	0.5376	-0.0018	0.0007
2006	27-Apr	3	C	200	0.0000	0.0069	0.0000	0.5252	-0.0017	0.0002
2006	27-Apr	1	T	200	0.0000	0.0019	0.0000	0.2855	-0.0006	0.0005
2006	27-Apr	2	T	200						
2006	27-Apr	3	T	200	-0.0001	0.0155	0.0000	0.6966	-0.0015	0.0003
2006	4-May	1	C	15	0.0000	0.0123	-0.0057	2.0240	-0.9308	0.0000

year	date	rep	trt	depth cm	B_2496 kg/ha	Ba4934 ug/ml	Ba4934 kg/ha	Ca3179 ug/ml	Ca3179 kg/ha	Cd2265 ug/ml
2006	4-May	2	C	15	-0.0116	0.0342	-0.0157	2.0417	-0.9389	0.0000
2006	4-May	3	C	15	0.0000	0.0358	-0.0165	0.4330	-0.1991	0.0000
2006	4-May	1	T	15	-0.0276	0.0811	-0.0398	18.5735	-9.1102	0.0009
2006	4-May	2	T	15	-0.0375	0.0422	-0.0207	3.8145	-1.8710	0.0003
2006	4-May	3	T	15	-0.0166	0.0777	-0.0381	10.8632	-5.3283	0.0000
2006	4-May	1	C	30	0.0000	0.0563	-0.0257	2.8333	-1.2955	0.0003
2006	4-May	2	C	30	0.0000	0.0152	-0.0069	0.8398	-0.3840	0.0002
2006	4-May	3	C	30	0.0000	0.1417	-0.0648	0.9739	-0.4453	0.0010
2006	4-May	1	T	30	-0.0054	0.0251	-0.0119	1.4302	-0.6816	0.0000
2006	4-May	2	T	30	-0.0074	0.2469	-0.1176	5.3210	-2.5356	0.0000
2006	4-May	3	T	30	0.0000	0.0566	-0.0270	3.9496	-1.8821	0.0005
2006	4-May	1	C	60	-0.0218	0.2047	-0.0935	3.8361	-1.7526	0.0000
2006	4-May	2	C	60	-0.0020	0.0056	-0.0026	0.4455	-0.2035	0.0000
2006	4-May	3	C	60	-0.0014	0.0787	-0.0359	1.3238	-0.6048	0.0000
2006	4-May	1	T	60	0.0000	0.0751	-0.0344	2.5998	-1.1928	0.0000
2006	4-May	2	T	60	-0.0026	0.4829	-0.2215	13.6899	-6.2812	0.0008
2006	4-May	3	T	60	0.0000	0.2506	-0.1150	3.1933	-1.4652	0.0001
2006	4-May	1	C	120	-0.0117	0.0985	-0.0431	2.2789	-0.9970	0.0003
2006	4-May	2	C	120	0.0000	0.0346	-0.0151	1.2035	-0.5265	0.0000
2006	4-May	3	C	120	0.0000	0.1438	-0.0629	3.9492	-1.7278	0.0008
2006	4-May	1	T	120	0.0000	0.0287	-0.0122	1.2821	-0.5473	0.0000
2006	4-May	2	T	120						
2006	4-May	3	T	120	0.0000	0.0194	-0.0083	0.8313	-0.3549	0.0002
2006	4-May	1	C	200	-0.0004	0.0022	-0.0002	0.0734	-0.0063	0.0000
2006	4-May	2	C	200	0.0000	0.0044	-0.0004	0.2568	-0.0219	0.0002
2006	4-May	3	C	200	0.0000	0.0074	-0.0006	0.3268	-0.0279	0.0000
2006	4-May	1	T	200	0.0000	0.0007	0.0000	0.0461	-0.0001	0.0000
2006	4-May	2	T	200						
2006	4-May	3	T	200	-0.0001	0.0143	0.0000	0.2817	-0.0008	0.0004
2006	12-May	1	C	15	0.0000	0.0190	-0.0166	2.9533	-2.5801	0.0000
2006	12-May	2	C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	3	C	15	0.0000	0.0325	-0.0284	0.4993	-0.4362	0.0000
2006	12-May	1	T	15	-0.2417	0.0421	-0.0366	64.9135	-56.5074	0.0007
2006	12-May	2	T	15	-0.0463	0.0392	-0.0341	4.3266	-3.7663	0.0003
2006	12-May	3	T	15	-0.0277	0.1844	-0.1605	22.4862	-19.5743	0.0000
2006	12-May	1	C	30	0.0000	0.0922	-0.0799	5.9995	-5.1994	0.0000
2006	12-May	2	C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	3	C	30	0.0000	0.1722	-0.1492	1.0995	-0.9528	0.0002
2006	12-May	1	T	30	-0.0144	0.0521	-0.0453	3.6898	-3.2101	0.0000
2006	12-May	2	T	30	-0.0324	0.2390	-0.2080	6.0926	-5.3006	0.0000
2006	12-May	3	T	30	-0.0060	0.0499	-0.0434	3.6597	-3.1839	0.0000
2006	12-May	1	C	60	-0.0126	0.2008	-0.1745	3.4107	-2.9646	0.0003
2006	12-May	2	C	60	0.0000	0.0500	-0.0435	1.9781	-1.7194	0.0001
2006	12-May	3	C	60	0.0000	0.0696	-0.0605	1.1692	-1.0162	0.0000
2006	12-May	1	T	60	0.0000	0.0695	-0.0601	2.6673	-2.3070	0.0000
2006	12-May	2	T	60	0.0000	0.4707	-0.4071	13.0152	-11.2569	0.0001
2006	12-May	3	T	60	-0.0119	0.1998	-0.1728	3.0521	-2.6398	0.0003

year	date	rep	trt	depth	B_2496	Ba4934	Ba4934	Ca3179	Ca3179	Cd2265
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	12-May	1	C	120	0.0000	0.1018	-0.0899	1.8943	-1.6723	0.0000
2006	12-May	2	C	120						
2006	12-May	3	C	120	-0.0294	0.1210	-0.1068	2.4768	-2.1865	0.0000
2006	12-May	1	T	120	-0.0302	0.0261	-0.0238	1.0911	-0.9956	0.0003
2006	12-May	2	T	120	-0.0262	0.6124	-0.5588	3.5042	-3.1976	0.0005
2006	12-May	3	T	120	0.0000	0.0129	-0.0117	0.4206	-0.3838	0.0000
2006	12-May	1	C	200	0.0000	0.0022	-0.0020	0.0718	-0.0675	0.0000
2006	12-May	2	C	200	-0.0080	0.0050	-0.0047	0.2735	-0.2572	0.0003
2006	12-May	3	C	200	0.0000	0.0061	-0.0057	0.1943	-0.1828	0.0000
2006	12-May	1	T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	2	T	200	-0.0089	0.0123	-0.0064	0.7180	-0.3753	0.0005
2006	12-May	3	T	200	0.0000	0.0160	-0.0084	0.4315	-0.2256	0.0000
2006	19-May	1	C	15	-0.0193	0.0202	-0.0056	2.7745	-0.7730	0.0026
2006	19-May	2	C	15	-0.0306	0.0598	-0.0167	1.8331	-0.5107	0.0026
2006	19-May	3	C	15	-0.0420	0.1171	-0.0326	1.2509	-0.3485	0.0035
2006	19-May	1	T	15	-0.0335	0.0722	-0.0203	12.6458	-3.5572	0.0003
2006	19-May	2	T	15	-0.0394	0.0856	-0.0241	8.5173	-2.3959	0.0025
2006	19-May	3	T	15	-0.0326	0.1654	-0.0465	16.7839	-4.7212	0.0027
2006	19-May	1	C	30	-0.0194	0.1024	-0.0293	6.6432	-1.8992	0.0020
2006	19-May	2	C	30	-0.0084	0.2345	-0.0670	10.3493	-2.9588	0.0008
2006	19-May	3	C	30	-0.0039	0.2433	-0.0696	1.4809	-0.4234	0.0004
2006	19-May	1	T	30	-0.0297	0.1389	-0.0408	7.5747	-2.2265	0.0003
2006	19-May	2	T	30	-0.0250	0.2507	-0.0737	5.9695	-1.7547	0.0030
2006	19-May	3	T	30	-0.0019	0.1861	-0.0547	14.8677	-4.3702	0.0005
2006	19-May	1	C	60	-0.0095	0.2187	-0.0674	3.4483	-1.0620	0.0022
2006	19-May	2	C	60	-0.0198	0.0432	-0.0133	2.0943	-0.6450	0.0030
2006	19-May	3	C	60	-0.0163	0.0752	-0.0232	1.3446	-0.4141	0.0029
2006	19-May	1	T	60	0.0000	0.0841	-0.0278	2.9191	-0.9651	0.0000
2006	19-May	2	T	60	-0.0312	0.4261	-0.1409	10.7426	-3.5517	0.0027
2006	19-May	3	T	60	-0.0196	0.2581	-0.0853	2.9182	-0.9648	0.0027
2006	19-May	1	C	120	-0.0248	0.1637	-0.0587	3.1956	-1.1454	0.0022
2006	19-May	2	C	120	-0.0199	0.0643	-0.0230	1.5585	-0.5586	0.0028
2006	19-May	3	C	120	-0.0110	0.1188	-0.0426	2.6047	-0.9336	0.0001
2006	19-May	1	T	120	-0.0287	0.0265	-0.0102	1.0217	-0.3928	0.0018
2006	19-May	2	T	120	-0.0126	0.6881	-0.2645	3.3459	-1.2863	0.0024
2006	19-May	3	T	120	-0.0261	0.0161	-0.0062	0.5006	-0.1925	0.0031
2006	19-May	1	C	200	-0.0366	0.0022	-0.0008	0.0878	-0.0333	0.0027
2006	19-May	2	C	200	-0.0394	0.0056	-0.0021	0.2961	-0.1124	0.0025
2006	19-May	3	C	200	-0.0173	0.0064	-0.0024	0.1970	-0.0748	0.0026
2006	19-May	1	T	200	-0.0126	0.0010	-0.0004	0.0519	-0.0217	0.0017
2006	19-May	2	T	200	-0.0105	0.0128	-0.0054	0.3150	-0.1318	0.0032
2006	19-May	3	T	200	-0.0049	0.0146	-0.0061	0.3396	-0.1420	0.0003
2006	27-May	1	C	15	-0.0457	0.0541	-0.0371	1.6035	-1.0988	0.0026
2006	27-May	2	C	15	-0.0560	0.0256	-0.0175	3.6744	-2.5180	0.0027
2006	27-May	3	C	15	-0.0405	0.0436	-0.0299	0.8950	-0.6133	0.0025
2006	27-May	1	T	15						
2006	27-May	2	T	15	-0.1168	0.0954	-0.0662	11.1625	-7.7424	0.0031

year	date	rep	trt	depth	B_2496	Ba4934	Ba4934	Ca3179	Ca3179	Cd2265
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	27-May	3	T	15	-0.0177	0.8214	-0.5697	3.4523	-2.3945	0.0027
2006	27-May	1	C	30	-0.0573	0.1233	-0.0826	6.2602	-4.1951	0.0026
2006	27-May	2	C	30	-0.0274	0.1293	-0.0867	8.0851	-5.4181	0.0007
2006	27-May	3	C	30	-0.0388	0.2956	-0.1981	1.3294	-0.8909	0.0026
2006	27-May	1	T	30	-0.0650	0.2317	-0.1563	11.8755	-8.0121	0.0025
2006	27-May	2	T	30	-0.0447	0.2879	-0.1942	6.0711	-4.0960	0.0028
2006	27-May	3	T	30	-0.0318	0.0129	-0.0087	0.2555	-0.1724	0.0029
2006	27-May	1	C	60	-0.0350	0.0473	-0.0300	2.4179	-1.5300	0.0029
2006	27-May	2	C	60	-0.0302	0.2590	-0.1639	3.8103	-2.4111	0.0033
2006	27-May	3	C	60	-0.0324	0.0670	-0.0424	1.2539	-0.7935	0.0014
2006	27-May	1	T	60	-0.0745	0.1607	-0.0999	5.9525	-3.7007	0.0032
2006	27-May	2	T	60	-0.0595	0.4433	-0.2756	10.7874	-6.7066	0.0030
2006	27-May	3	T	60	-0.0381	0.2199	-0.1367	2.7704	-1.7224	0.0030
2006	27-May	1	C	120	-0.0413	0.1704	-0.0932	3.5104	-1.9188	0.0023
2006	27-May	2	C	120	-0.0419	0.0449	-0.0245	1.1129	-0.6083	0.0023
2006	27-May	3	C	120	-0.0235	0.1304	-0.0713	2.6225	-1.4334	0.0027
2006	27-May	1	T	120	-0.0172	0.0334	-0.0166	1.5226	-0.7585	0.0021
2006	27-May	2	T	120	-0.0559	0.1557	-0.0776	15.0343	-7.4900	0.0027
2006	27-May	3	T	120	-0.0337	0.0112	-0.0056	0.3683	-0.1835	0.0029
2006	27-May	1	C	200	-0.0282	0.0018	-0.0008	0.0732	-0.0335	0.0020
2006	27-May	2	C	200	-0.0334	0.0048	-0.0022	0.2387	-0.1092	0.0027
2006	27-May	3	C	200	-0.0302	0.0073	-0.0033	0.2001	-0.0915	0.0021
2006	27-May	1	T	200	-0.0156	0.0000	0.0000	0.0502	-0.0198	0.0012
2006	27-May	2	T	200	-0.0256	0.2375	-0.0936	18.7711	-7.3973	0.0031
2006	27-May	3	T	200	-0.0134	0.0155	-0.0061	0.3621	-0.1427	0.0027
2006	1-Jun	1	C	15	-0.0310	0.0382	-0.0233	5.0807	-3.1018	0.0024
2006	1-Jun	2	C	15	-0.0249	0.1670	-0.1020	7.9533	-4.8556	0.0004
2006	1-Jun	3	C	15	-0.0493	0.3914	-0.2389	1.7577	-1.0731	0.0028
2006	1-Jun	1	T	15	-0.1724	0.0831	-0.0502	42.9629	-25.9274	0.0004
2006	1-Jun	2	T	15	-0.0527	0.0529	-0.0320	4.3765	-2.6411	0.0002
2006	1-Jun	3	T	15	-0.0487	0.1503	-0.0907	11.4883	-6.9330	0.0022
2006	1-Jun	1	C	30	-0.0200	0.4819	-0.2840	31.1861	-18.3762	0.0010
2006	1-Jun	2	C	30	-0.0560	0.0442	-0.0261	2.4298	-1.4317	0.0021
2006	1-Jun	3	C	30	-0.0506	0.0026	-0.0015	0.1096	-0.0646	0.0031
2006	1-Jun	1	T	30	-0.0545	0.2944	-0.1702	15.2109	-8.7958	0.0031
2006	1-Jun	2	T	30	-0.0389	0.4001	-0.2313	5.0087	-2.8963	0.0025
2006	1-Jun	3	T	30	-0.0361	0.4024	-0.2327	30.8120	-17.8173	0.0027
2006	1-Jun	1	C	60	-0.0402	0.2883	-0.1648	4.4176	-2.5247	0.0024
2006	1-Jun	2	C	60	0.0000	0.0562	-0.0321	1.4736	-0.8422	0.0003
2006	1-Jun	3	C	60	-0.0148	0.0759	-0.0434	1.4397	-0.8228	0.0028
2006	1-Jun	1	T	60	-0.0436	0.1249	-0.0723	5.3783	-3.1147	0.0026
2006	1-Jun	2	T	60	-0.0187	0.6045	-0.3501	18.9334	-10.9650	0.0029
2006	1-Jun	3	T	60	-0.0596	0.1827	-0.1058	2.3858	-1.3817	0.0026
2006	1-Jun	1	C	120	-0.0180	0.1769	-0.1065	3.5834	-2.1570	0.0027
2006	1-Jun	2	C	120	0.0000	0.0049	-0.0030	0.2599	-0.1564	0.0005

year	date	rep	trt	depth	B_2496	Ba4934	Ba4934	Ca3179	Ca3179	Cd2265
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	1-Jun	3	C	120	-0.0445	0.1272	-0.0766	2.2978	-1.3832	0.0024
2006	1-Jun	1	T	120	-0.0234	0.0356	-0.0221	1.6925	-1.0526	0.0022
2006	1-Jun	2	T	120	-0.0452	0.9188	-0.5714	3.5671	-2.2185	0.0027
2006	1-Jun	3	T	120	-0.0462	0.0160	-0.0099	0.6545	-0.4071	0.0018
2006	1-Jun	1	C	200	-0.0066	0.0196	-0.0127	0.6244	-0.4034	0.0004
2006	1-Jun	2	C	200	-0.0320	0.0329	-0.0213	0.8096	-0.5231	0.0024
2006	1-Jun	3	C	200	-0.0528	0.0068	-0.0044	0.2032	-0.1313	0.0019
2006	1-Jun	1	T	200	-0.0536	0.0013	-0.0008	0.0556	-0.0357	0.0023
2006	1-Jun	2	T	200	-0.0726	0.0132	-0.0085	0.2549	-0.1638	0.0030
2006	1-Jun	3	T	200	-0.0284	0.0157	-0.0101	0.3306	-0.2124	0.0026
2006	9-Jun	1	C	15	-0.0365	0.0489	-0.0289	6.1834	-3.6611	0.0020
2006	9-Jun	2	C	15	-0.0031	0.0294	-0.0174	0.9004	-0.5331	0.0010
2006	9-Jun	3	C	15	-0.0128	0.0303	-0.0180	0.9941	-0.5886	0.0003
2006	9-Jun	1	T	15	-0.1938	0.1503	-0.0901	65.5963	-39.3341	0.0018
2006	9-Jun	2	T	15	-0.0762	0.1678	-0.1006	16.6584	-9.9890	0.0026
2006	9-Jun	3	T	15	-0.0493	0.2515	-0.1508	16.8536	-10.1061	0.0043
2006	9-Jun	1	C	30	-0.0469	0.4508	-0.2656	27.8427	-16.4084	0.0026
2006	9-Jun	2	C	30	-0.0164	0.0350	-0.0206	3.2350	-1.9065	0.0008
2006	9-Jun	3	C	30	-0.0016	0.3684	-0.2171	1.7103	-1.0079	0.0014
2006	9-Jun	1	T	30	-0.0206	0.2566	-0.1509	13.5129	-7.9434	0.0026
2006	9-Jun	2	T	30	-0.0618	0.1931	-0.1135	4.7452	-2.7894	0.0042
2006	9-Jun	3	T	30	-0.0551	0.4138	-0.2432	25.9567	-15.2584	0.0036
2006	9-Jun	1	C	60	-0.0370	0.3614	-0.2045	6.0585	-3.4281	0.0026
2006	9-Jun	2	C	60	-0.0205	0.0557	-0.0315	2.6117	-1.4778	0.0009
2006	9-Jun	3	C	60	-0.0023	0.0823	-0.0465	1.5048	-0.8514	0.0008
2006	9-Jun	1	T	60	-0.0261	0.1409	-0.0766	5.7241	-3.1103	0.0022
2006	9-Jun	2	T	60	-0.0366	0.6897	-0.3748	23.4929	-12.7652	0.0016
2006	9-Jun	3	T	60	-0.0481	0.1780	-0.0967	2.0943	-1.1380	0.0028
2006	9-Jun	1	C	120	-0.0254	0.1845	-0.0912	3.7197	-1.8389	0.0021
2006	9-Jun	2	C	120	-0.0141	0.0610	-0.0301	1.5186	-0.7508	0.0005
2006	9-Jun	3	C	120	-0.0206	0.1182	-0.0584	2.0116	-0.9945	0.0004
2006	9-Jun	1	T	120	-0.0279	0.0324	-0.0151	1.3143	-0.6153	0.0021
2006	9-Jun	2	T	120	-0.0231	1.0142	-0.4748	3.6042	-1.6872	0.0029
2006	9-Jun	3	T	120	-0.0168	0.0171	-0.0080	0.5116	-0.2395	0.0020
2006	9-Jun	1	C	200	-0.0058	0.0024	-0.0011	0.1257	-0.0562	0.0000
2006	9-Jun	2	C	200	0.0000	0.0051	-0.0023	0.2488	-0.1113	0.0006
2006	9-Jun	3	C	200	-0.0181	0.0071	-0.0032	0.1682	-0.0752	0.0009
2006	9-Jun	1	T	200	-0.0390	0.0015	-0.0007	0.0568	-0.0280	0.0024
2006	9-Jun	2	T	200	-0.0275	0.0130	-0.0064	0.2397	-0.1183	0.0029
2006	9-Jun	3	T	200	-0.0285	0.0161	-0.0080	0.2927	-0.1444	0.0028
2006	15-Jun	1	C	15	-0.0044	0.0408	-0.0182	4.6826	-2.0954	0.0000
2006	15-Jun	2	C	15	-0.0099	0.0338	-0.0151	1.2797	-0.5727	0.0000
2006	15-Jun	3	C	15	-0.0188	0.0339	-0.0152	1.3733	-0.6145	0.0002
2006	15-Jun	1	T	15	-0.1305	0.1261	-0.0593	39.2977	-18.4762	0.0012
2006	15-Jun	2	T	15	-0.0577	0.1526	-0.0717	11.2647	-5.2962	0.0014
2006	15-Jun	3	T	15	-0.0338	0.1485	-0.0698	10.5095	-4.9412	0.0014

year	date	rep	trt	depth	B_2496	Ba4934	Ba4934	Ca3179	Ca3179	Cd2265
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	15-Jun	1	C	30	-0.0479	0.5809	-0.2649	32.5242	-14.8294	0.0016
2006	15-Jun	2	C	30	-0.0137	0.2325	-0.1060	10.4191	-4.7506	0.0003
2006	15-Jun	3	C	30	-0.0083	0.3485	-0.1589	1.5914	-0.7256	0.0010
2006	15-Jun	1	T	30	-0.0082	0.2074	-0.0974	11.4825	-5.3946	0.0012
2006	15-Jun	2	T	30	-0.0251	0.2440	-0.1146	5.6248	-2.6426	0.0012
2006	15-Jun	3	T	30	-0.0209	0.8103	-0.3807	34.3432	-16.1347	0.0009
2006	15-Jun	1	C	60	-0.0090	0.4205	-0.1931	6.6650	-3.0609	0.0011
2006	15-Jun	2	C	60	-0.0071	0.0707	-0.0325	3.5603	-1.6350	0.0010
2006	15-Jun	3	C	60	-0.0077	0.0888	-0.0408	1.5872	-0.7289	0.0013
2006	15-Jun	1	T	60	0.0000	0.1198	-0.0568	5.3541	-2.5367	0.0000
2006	15-Jun	2	T	60	-0.0161	0.7370	-0.3492	24.5650	-11.6387	0.0015
2006	15-Jun	3	T	60	-0.0105	0.1663	-0.0788	1.9976	-0.9464	0.0009
2006	15-Jun	1	C	120	-0.0163	0.2030	-0.0942	3.8666	-1.7945	0.0008
2006	15-Jun	2	C	120	-0.0208	0.0724	-0.0336	1.8360	-0.8521	0.0011
2006	15-Jun	3	C	120	-0.0189	0.1362	-0.0632	2.4849	-1.1533	0.0007
2006	15-Jun	1	T	120	-0.0123	0.0330	-0.0163	1.3347	-0.6602	0.0012
2006	15-Jun	2	T	120	-0.0097	1.0455	-0.5171	3.4539	-1.7084	0.0013
2006	15-Jun	3	T	120	-0.0071	0.0178	-0.0088	0.5102	-0.2524	0.0016
2006	15-Jun	1	C	200	0.0000	0.0022	-0.0011	0.0744	-0.0364	0.0008
2006	15-Jun	2	C	200	-0.0117	0.0050	-0.0025	0.2561	-0.1253	0.0012
2006	15-Jun	3	C	200	0.0000	0.0074	-0.0036	0.2585	-0.1265	0.0007
2006	15-Jun	1	T	200	0.0000	0.0018	-0.0008	0.0479	-0.0219	0.0000
2006	15-Jun	2	T	200	-0.0096	0.0141	-0.0064	0.2541	-0.1163	0.0003
2006	15-Jun	3	T	200	0.0000	0.0170	-0.0078	0.2639	-0.1208	0.0009
2006	22-Jun	1	C	15	-0.0327	0.1471	-0.0645	3.7692	-1.6518	0.0008
2006	22-Jun	2	C	15	-0.0143	0.0606	-0.0266	1.8429	-0.8076	0.0010
2006	22-Jun	3	C	15	-0.0140	0.0310	-0.0136	1.0089	-0.4421	0.0008
2006	22-Jun	1	T	15	-0.0533	0.1456	-0.0646	9.0161	-4.0030	0.0013
2006	22-Jun	2	T	15	-0.0377	0.0644	-0.0286	3.6680	-1.6285	0.0009
2006	22-Jun	3	T	15	-0.0233	0.1249	-0.0555	12.8909	-5.7234	0.0007
2006	22-Jun	1	C	30	-0.0049	0.4092	-0.1639	19.4906	-7.8067	0.0009
2006	22-Jun	2	C	30	0.0000	0.0466	-0.0187	4.3489	-1.7419	0.0004
2006	22-Jun	3	C	30	-0.0178	0.3350	-0.1342	1.5191	-0.6085	0.0006
2006	22-Jun	1	T	30	0.0000	0.1994	-0.0806	10.4798	-4.2377	0.0011
2006	22-Jun	2	T	30	-0.0163	0.3313	-0.1340	5.7896	-2.3411	0.0014
2006	22-Jun	3	T	30	0.0000	1.0290	-0.4161	26.5928	-10.7533	0.0015
2006	22-Jun	1	C	60	-0.0068	0.4560	-0.1622	7.2222	-2.5696	0.0005
2006	22-Jun	2	C	60	-0.0128	0.0902	-0.0321	4.5579	-1.6217	0.0015
2006	22-Jun	3	C	60	-0.0079	0.0985	-0.0350	1.7649	-0.6279	0.0009
2006	22-Jun	1	T	60	-0.0019	0.1350	-0.0488	5.6301	-2.0343	0.0007
2006	22-Jun	2	T	60	-0.0054	0.9061	-0.3274	27.4150	-9.9055	0.0013
2006	22-Jun	3	T	60	-0.0054	0.1968	-0.0711	2.4184	-0.8738	0.0012
2006	22-Jun	1	C	120	-0.0106	0.1876	-0.0634	3.5425	-1.1973	0.0004
2006	22-Jun	2	C	120	0.0000	0.0787	-0.0266	1.8106	-0.6120	0.0002
2006	22-Jun	3	C	120	-0.0080	0.1536	-0.0519	3.1387	-1.0609	0.0010
2006	22-Jun	1	T	120	-0.0085	0.0348	-0.0129	1.2063	-0.4482	0.0013

year	date	rep	trt	depth	B_2496	Ba4934	Ba4934	Ca3179	Ca3179	Cd2265
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	22-Jun	2	T	120	-0.0135	1.0171	-0.3779	3.3318	-1.2379	0.0012
2006	22-Jun	3	T	120	0.0000	0.0204	-0.0076	0.5495	-0.2042	0.0010
2006	22-Jun	1	C	200	0.0000	0.0026	-0.0011	0.0704	-0.0285	0.0001
2006	22-Jun	2	C	200	-0.0011	0.0055	-0.0022	0.2627	-0.1064	0.0000
2006	22-Jun	3	C	200	0.0000	0.0069	-0.0028	0.1805	-0.0731	0.0009
2006	22-Jun	1	T	200	-0.0038	0.0016	-0.0008	0.0457	-0.0215	0.0002
2006	22-Jun	2	T	200	-0.0095	0.0131	-0.0062	0.2171	-0.1022	0.0009
2006	22-Jun	3	T	200	-0.0026	0.0179	-0.0084	0.2879	-0.1355	0.0010
2006	29-Jun	1	C	15	-0.0247	0.0957	-0.0848	1.9001	-1.6838	0.0001
2006	29-Jun	2	C	15	-0.0202	0.1148	-0.1017	3.4144	-3.0257	0.0009
2006	29-Jun	3	C	15	-0.0328	0.0411	-0.0364	1.4691	-1.3019	0.0011
2006	29-Jun	1	T	15	-0.0635	0.0454	-0.0415	2.6278	-2.4046	0.0000
2006	29-Jun	2	T	15	-0.0833	0.0342	-0.0313	2.7782	-2.5423	0.0007
2006	29-Jun	3	T	15	-0.0242	0.0471	-0.0431	4.3907	-4.0178	0.0010
2006	29-Jun	1	C	30	-0.0166	0.4096	-0.3671	14.5263	-13.0210	0.0013
2006	29-Jun	2	C	30	-0.0204	0.1858	-0.1665	7.4214	-6.6524	0.0008
2006	29-Jun	3	C	30	-0.0166	0.3595	-0.3222	1.7174	-1.5394	0.0008
2006	29-Jun	1	T	30	-0.0386	0.1140	-0.1059	6.0776	-5.6444	0.0006
2006	29-Jun	2	T	30	-0.0350	0.3240	-0.3009	5.3907	-5.0066	0.0014
2006	29-Jun	3	T	30	-0.0155	0.7846	-0.7287	13.6650	-12.6912	0.0009
2006	29-Jun	1	C	60	0.0000	0.4956	-0.4468	7.2771	-6.5599	0.0017
2006	29-Jun	2	C	60	-0.0218	0.1027	-0.0926	5.2373	-4.7212	0.0005
2006	29-Jun	3	C	60	-0.0578	0.0601	-0.0542	1.1867	-1.0697	0.0009
2006	29-Jun	1	T	60	-0.0152	0.1620	-0.1481	6.6477	-6.0762	0.0011
2006	29-Jun	2	T	60	-0.0178	1.0736	-0.9813	31.5207	-28.8105	0.0018
2006	29-Jun	3	T	60	-0.0204	0.2317	-0.2117	3.3150	-3.0300	0.0017
2006	29-Jun	1	C	120	-0.0061	0.1827	-0.1574	3.3914	-2.9213	0.0005
2006	29-Jun	2	C	120	-0.0564	0.0879	-0.0757	1.9956	-1.7190	0.0010
2006	29-Jun	3	C	120	0.0000	0.1537	-0.1324	3.1150	-2.6832	0.0000
2006	29-Jun	1	T	120	0.0000	0.0348	-0.0285	1.5735	-1.2917	0.0000
2006	29-Jun	2	T	120	-0.0011	0.9817	-0.8059	3.2463	-2.6650	0.0007
2006	29-Jun	3	T	120	-0.0618	0.0248	-0.0203	0.7724	-0.6340	0.0006
2006	29-Jun	1	C	200	-0.0090	0.0024	-0.0019	0.0844	-0.0663	0.0010
2006	29-Jun	2	C	200	-0.0056	0.0054	-0.0043	0.2518	-0.1979	0.0002
2006	29-Jun	3	C	200	-0.0472	0.0085	-0.0067	0.4291	-0.3372	0.0013
2006	29-Jun	1	T	200	0.0000	0.0020	-0.0013	0.0849	-0.0558	0.0000
2006	29-Jun	2	T	200	0.0000	0.0127	-0.0083	0.2589	-0.1701	0.0002
2006	29-Jun	3	T	200	-0.0220	0.0178	-0.0117	0.3518	-0.2311	0.0009
2006	5-Jul	1	C	15	-0.0367	0.0256	-0.0149	1.0543	-0.6147	0.0002
2006	5-Jul	2	C	15	-0.0129	0.0516	-0.0301	1.6266	-0.9484	0.0000
2006	5-Jul	3	C	15	-0.0285	0.0323	-0.0188	0.8948	-0.5217	0.0000
2006	5-Jul	1	T	15	-0.0549	0.0238	-0.0144	2.0205	-1.2178	0.0002
2006	5-Jul	2	T	15	-0.0448	0.0168	-0.0101	1.5248	-0.9190	0.0001
2006	5-Jul	3	T	15	-0.0307	0.0131	-0.0079	1.5165	-0.9141	0.0000
2006	5-Jul	1	C	30	-0.0337	0.3103	-0.1749	7.9846	-4.5003	0.0000
2006	5-Jul	2	C	30	-0.0178	0.1164	-0.0656	4.1874	-2.3601	0.0000

year	date	rep	trt	depth	B_2496	Ba4934	Ba4934	Ca3179	Ca3179	Cd2265
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	5-Jul	3	C	30	-0.0217	0.2782	-0.1568	1.6827	-0.9484	0.0000
2006	5-Jul	1	T	30	-0.0157	0.0498	-0.0286	2.9282	-1.6861	0.0000
2006	5-Jul	2	T	30	-0.0124	0.2570	-0.1480	5.1403	-2.9599	0.0000
2006	5-Jul	3	T	30	-0.0303	0.2517	-0.1449	4.4059	-2.5370	0.0000
2006	5-Jul	1	C	60	-0.0116	0.5318	-0.2802	7.9175	-4.1714	0.0000
2006	5-Jul	2	C	60	-0.0373	0.1085	-0.0572	5.9743	-3.1476	0.0000
2006	5-Jul	3	C	60	-0.0098	0.0893	-0.0471	1.9510	-1.0279	0.0000
2006	5-Jul	1	T	60	-0.0012	0.1139	-0.0617	4.9098	-2.6596	0.0001
2006	5-Jul	2	T	60	0.0000	1.1140	-0.6034	30.8757	-16.7250	0.0000
2006	5-Jul	3	T	60	-0.0071	0.3139	-0.1700	6.5681	-3.5579	0.0000
2006	5-Jul	1	C	120	-0.0113	0.2160	-0.1032	4.1405	-1.9785	0.0000
2006	5-Jul	2	C	120	-0.0037	0.0992	-0.0474	2.7173	-1.2984	0.0005
2006	5-Jul	3	C	120	-0.0174	0.1446	-0.0691	3.2894	-1.5718	0.0017
2006	5-Jul	1	T	120	0.0000	0.0336	-0.0163	1.8647	-0.9010	0.0006
2006	5-Jul	2	T	120	-0.0358	1.1594	-0.5602	4.1592	-2.0097	0.0000
2006	5-Jul	3	T	120	-0.0159	0.0249	-0.0120	0.6834	-0.3302	0.0000
2006	5-Jul	1	C	200	-0.0074	0.0025	-0.0012	0.0891	-0.0416	0.0000
2006	5-Jul	2	C	200	-0.0044	0.0047	-0.0022	0.2943	-0.1376	0.0000
2006	5-Jul	3	C	200	-0.0173	0.0078	-0.0036	0.2037	-0.0952	0.0000
2006	5-Jul	1	T	200	0.0000	0.0008	-0.0004	0.0440	-0.0217	0.0000
2006	5-Jul	2	T	200	-0.0259	0.0161	-0.0079	0.2595	-0.1278	0.0000
2006	5-Jul	3	T	200	0.0000	0.0190	-0.0094	0.4179	-0.2058	0.0000
2006	13-Jul	1	C	15						
2006	13-Jul	2	C	15	-0.0482	0.0205	-0.0245	0.7125	-0.8527	0.0000
2006	13-Jul	3	C	15	-0.0055	0.0047	-0.0057	0.3039	-0.3637	0.0000
2006	13-Jul	1	T	15	-0.0529	0.0222	-0.0272	1.7797	-2.1832	0.0000
2006	13-Jul	2	T	15	-0.1276	0.0198	-0.0243	1.3847	-1.6987	0.0000
2006	13-Jul	3	T	15	-0.0856	0.0113	-0.0139	1.4091	-1.7286	0.0006
2006	13-Jul	1	C	30	-0.0182	0.2853	-0.3353	6.9413	-8.1573	0.0000
2006	13-Jul	2	C	30	-0.0619	0.0999	-0.1174	3.7554	-4.4132	0.0000
2006	13-Jul	3	C	30	-0.0689	0.2797	-0.3287	1.2581	-1.4785	0.0000
2006	13-Jul	1	T	30	-0.0412	0.0300	-0.0361	1.4587	-1.7599	0.0000
2006	13-Jul	2	T	30	-0.0155	0.1495	-0.1804	3.4536	-4.1666	0.0000
2006	13-Jul	3	T	30	-0.0262	0.0653	-0.0788	1.5746	-1.8997	0.0000
2006	13-Jul	1	C	60	-0.0229	0.6048	-0.6872	7.9306	-9.0109	0.0000
2006	13-Jul	2	C	60	-0.0388	0.0860	-0.0977	4.6308	-5.2617	0.0000
2006	13-Jul	3	C	60	-0.0193	0.1214	-0.1379	2.6389	-2.9984	0.0000
2006	13-Jul	1	T	60	0.0000	0.1586	-0.1808	6.4670	-7.3720	0.0000
2006	13-Jul	2	T	60	-0.0422	1.0026	-1.1429	24.7323	-28.1936	0.0000
2006	13-Jul	3	T	60	-0.0601	0.3136	-0.3575	8.2160	-9.3659	0.0000
2006	13-Jul	1	C	120	-0.0780	0.1756	-0.1841	3.3177	-3.4776	0.0000
2006	13-Jul	2	C	120	0.0000	0.1200	-0.1258	3.2504	-3.4071	0.0000
2006	13-Jul	3	C	120	0.0000	0.1361	-0.1427	3.0342	-3.1805	0.0003
2006	13-Jul	1	T	120	0.0000	0.0291	-0.0294	1.5092	-1.5250	0.0000
2006	13-Jul	2	T	120	-0.0230	1.0392	-1.0501	3.5521	-3.5893	0.0000
2006	13-Jul	3	T	120	-0.0188	0.0251	-0.0254	0.6278	-0.6344	0.0000

year	date	rep	trt	depth	B_2496	Ba4934	Ba4934	Ca3179	Ca3179	Cd2265
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	13-Jul	1	C	200	-0.0374	0.0016	-0.0016	0.0661	-0.0664	0.0000
2006	13-Jul	2	C	200	-0.0356	0.0060	-0.0060	0.3202	-0.3215	0.0000
2006	13-Jul	3	C	200	-0.0139	0.0073	-0.0074	0.1957	-0.1965	0.0000
2006	13-Jul	1	T	200	-0.0257	0.0010	-0.0009	0.0405	-0.0384	0.0000
2006	13-Jul	2	T	200	-0.0284	0.0155	-0.0147	0.2163	-0.2051	0.0000
2006	13-Jul	3	T	200	-0.0544	0.0195	-0.0185	0.2726	-0.2585	0.0000
2006	20-Jul	1	C	15	-0.0261	0.0020	-0.0008	0.1339	-0.0548	0.0000
2006	20-Jul	2	C	15						
2006	20-Jul	3	C	15	-0.0114	0.0030	-0.0012	0.1092	-0.0447	0.0000
2006	20-Jul	1	T	15	-0.0387	0.0199	-0.0082	1.9188	-0.7899	0.0000
2006	20-Jul	2	T	15	-0.0356	0.0127	-0.0052	1.1513	-0.4740	0.0000
2006	20-Jul	3	T	15	-0.0251	0.0061	-0.0025	0.7154	-0.2945	0.0000
2006	20-Jul	1	C	30	-0.0087	0.0046	-0.0019	0.4450	-0.1820	0.0000
2006	20-Jul	2	C	30	-0.0140	0.0099	-0.0040	0.8307	-0.3397	0.0000
2006	20-Jul	3	C	30	-0.0127	0.4720	-0.1930	1.7508	-0.7159	0.0000
2006	20-Jul	1	T	30	-0.0117	0.0021	-0.0009	0.2547	-0.1075	0.0000
2006	20-Jul	2	T	30	-0.0091	0.0780	-0.0329	1.5105	-0.6376	0.0000
2006	20-Jul	3	T	30	-0.0084	0.0246	-0.0104	0.9217	-0.3891	0.0008
2006	20-Jul	1	C	60	-0.0135	0.5992	-0.2537	7.4516	-3.1544	0.0000
2006	20-Jul	2	C	60	-0.0069	0.0986	-0.0417	5.6296	-2.3831	0.0000
2006	20-Jul	3	C	60	-0.0194	0.1423	-0.0602	3.1619	-1.3385	0.0000
2006	20-Jul	1	T	60	-0.0260	0.1036	-0.0472	4.2805	-1.9489	0.0000
2006	20-Jul	2	T	60	0.0000	1.0361	-0.4717	23.2797	-10.5992	0.0000
2006	20-Jul	3	T	60	-0.0069	0.6661	-0.3033	14.8592	-6.7654	0.0000
2006	20-Jul	1	C	120	-0.0224	0.1721	-0.0817	3.3577	-1.5938	0.0000
2006	20-Jul	2	C	120	-0.0358	0.0811	-0.0385	1.7070	-0.8103	0.0000
2006	20-Jul	3	C	120	-0.0288	0.1398	-0.0664	2.6504	-1.2581	0.0001
2006	20-Jul	1	T	120	-0.0251	0.0325	-0.0176	1.7381	-0.9418	0.0000
2006	20-Jul	2	T	120	-0.0099	1.0125	-0.5486	3.7754	-2.0457	0.0000
2006	20-Jul	3	T	120	-0.0272	0.0268	-0.0145	0.6013	-0.3258	0.0000
2006	20-Jul	1	C	200	-0.0296	0.0024	-0.0014	0.0708	-0.0417	0.0000
2006	20-Jul	2	C	200	-0.0068	0.0060	-0.0035	0.2964	-0.1744	0.0000
2006	20-Jul	3	C	200	-0.0203	0.0077	-0.0046	0.2237	-0.1316	0.0000
2006	20-Jul	1	T	200	-0.0216	0.0012	-0.0009	0.0483	-0.0338	0.0000
2006	20-Jul	2	T	200	-0.0245	0.0163	-0.0114	0.2192	-0.1536	0.0000
2006	20-Jul	3	T	200	-0.0107	0.0191	-0.0134	0.2915	-0.2043	0.0000
2006	26-Jul	1	C	15	0.0000	0.0020	-0.0016	0.1650	-0.1289	0.0000
2006	26-Jul	2	C	15						
2006	26-Jul	3	C	15	0.0000	0.0029	-0.0022	0.0958	-0.0748	0.0000
2006	26-Jul	1	T	15	-0.0932	0.0453	-0.0351	1.9205	-1.4869	0.0001
2006	26-Jul	2	T	15	-0.0753	0.0097	-0.0075	0.9538	-0.7384	0.0001
2006	26-Jul	3	T	15	0.0000	0.0068	-0.0053	0.9316	-0.7213	0.0000
2006	26-Jul	1	C	30	-0.0641	0.0468	-0.0342	1.0667	-0.7786	0.0009
2006	26-Jul	2	C	30	0.0000	0.0033	-0.0024	0.4461	-0.3256	0.0000
2006	26-Jul	3	C	30	0.0000	0.2035	-0.1486	0.9131	-0.6665	0.0000
2006	26-Jul	1	T	30	-0.0307	0.0054	-0.0039	0.3441	-0.2474	0.0000

year	date	rep	trt	depth	B_2496	Ba4934	Ba4934	Ca3179	Ca3179	Cd2265
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	26-Jul	2	T	30	-0.0401	0.0542	-0.0390	1.3298	-0.9563	0.0000
2006	26-Jul	3	T	30	-0.0144	0.0175	-0.0126	0.4856	-0.3492	0.0000
2006	26-Jul	1	C	60	-0.0118	0.5923	-0.3795	6.1989	-3.9723	0.0001
2006	26-Jul	2	C	60	0.0000	0.0709	-0.0455	4.1129	-2.6356	0.0000
2006	26-Jul	3	C	60	0.0000	0.1211	-0.0776	2.5767	-1.6511	0.0000
2006	26-Jul	1	T	60	-0.0490	0.1260	-0.0769	4.9907	-3.0468	0.0000
2006	26-Jul	2	T	60	-0.0235	0.9485	-0.5791	20.8654	-12.7384	0.0000
2006	26-Jul	3	T	60	-0.0245	0.9730	-0.5940	15.4756	-9.4479	0.0000
2006	26-Jul	1	C	120	-0.0242	0.2081	-0.1019	3.9899	-1.9542	0.0000
2006	26-Jul	2	C	120	0.0000	0.0922	-0.0451	2.0832	-1.0203	0.0000
2006	26-Jul	3	C	120	0.0000	0.1499	-0.0734	2.4843	-1.2168	0.0000
2006	26-Jul	1	T	120	-0.0290	0.0362	-0.0156	1.5996	-0.6907	0.0000
2006	26-Jul	2	T	120	-0.0060	1.0037	-0.4334	4.1418	-1.7883	0.0000
2006	26-Jul	3	T	120	-0.0086	0.0289	-0.0125	0.6117	-0.2641	0.0000
2006	26-Jul	1	C	200	0.0000	0.0029	-0.0011	0.0579	-0.0223	0.0000
2006	26-Jul	2	C	200	0.0000	0.0062	-0.0024	0.2748	-0.1059	0.0000
2006	26-Jul	3	C	200	0.0000	0.0090	-0.0035	0.1798	-0.0693	0.0000
2006	26-Jul	1	T	200	-0.0037	0.0011	-0.0004	0.0518	-0.0165	0.0000
2006	26-Jul	2	T	200	-0.0118	0.0142	-0.0045	0.2316	-0.0740	0.0000
2006	26-Jul	3	T	200	-0.0177	0.0212	-0.0068	0.3676	-0.1174	0.0000
2006	3-Aug	1	C	15	0.0000	0.0033	-0.0005	0.1281	-0.0190	0.0000
2006	3-Aug	2	C	15	-0.0017	0.0123	-0.0018	0.6805	-0.1012	0.0008
2006	3-Aug	3	C	15	0.0000	0.0046	-0.0007	0.1327	-0.0197	0.0000
2006	3-Aug	1	T	15	-0.0204	0.0405	-0.0063	2.7538	-0.4263	0.0003
2006	3-Aug	2	T	15	0.0000	0.0113	-0.0018	1.0262	-0.1588	0.0000
2006	3-Aug	3	T	15	0.0000	0.0078	-0.0012	0.7790	-0.1206	0.0000
2006	3-Aug	1	C	30	0.0000	0.0599	-0.0083	1.2025	-0.1674	0.0000
2006	3-Aug	2	C	30	0.0000	0.0054	-0.0007	0.4639	-0.0646	0.0000
2006	3-Aug	3	C	30	0.0000	0.1936	-0.0269	0.7636	-0.1063	0.0000
2006	3-Aug	1	T	30	0.0000	0.0053	-0.0008	0.3257	-0.0501	0.0000
2006	3-Aug	2	T	30	0.0000	0.0399	-0.0061	1.0749	-0.1653	0.0000
2006	3-Aug	3	T	30	-0.0008	0.0084	-0.0013	0.3288	-0.0506	0.0001
2006	3-Aug	1	C	60	-0.0004	0.5388	-0.0764	5.0295	-0.7129	0.0000
2006	3-Aug	2	C	60	0.0000	0.0676	-0.0096	3.5543	-0.5038	0.0000
2006	3-Aug	3	C	60	-0.0014	0.1181	-0.0167	2.4310	-0.3446	0.0000
2006	3-Aug	1	T	60	-0.0016	0.1029	-0.0185	4.4006	-0.7921	0.0000
2006	3-Aug	2	T	60	0.0000	0.7590	-0.1366	16.0693	-2.8923	0.0000
2006	3-Aug	3	T	60	0.0000	0.8316	-0.1497	10.7515	-1.9351	0.0000
2006	3-Aug	1	C	120	0.0000	0.2023	-0.0454	3.7285	-0.8373	0.0000
2006	3-Aug	2	C	120	0.0000	0.0950	-0.0213	1.9790	-0.4444	0.0000
2006	3-Aug	3	C	120	-0.0073	0.1470	-0.0330	2.7744	-0.6231	0.0005
2006	3-Aug	1	T	120	0.0000	0.0376	-0.0116	1.3839	-0.4285	0.0000
2006	3-Aug	2	T	120	0.0000	0.8697	-0.2693	3.7155	-1.1503	0.0000
2006	3-Aug	3	T	120	0.0000	0.0287	-0.0089	0.5720	-0.1771	0.0000
2006	3-Aug	1	C	200	0.0000	0.0052	-0.0021	0.3896	-0.1600	0.0000
2006	3-Aug	2	C	200	0.0000	0.0062	-0.0025	0.2497	-0.1025	0.0000

year	date	rep	trt	depth	B_2496	Ba4934	Ba4934	Ca3179	Ca3179	Cd2265
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	3-Aug	3	C	200	0.0000	0.0092	-0.0038	0.2062	-0.0847	0.0000
2006	3-Aug	1	T	200	0.0000	0.0022	-0.0011	0.0758	-0.0396	0.0000
2006	3-Aug	2	T	200	0.0000	0.0146	-0.0076	0.1906	-0.0995	0.0000
2006	3-Aug	3	T	200	0.0000	0.0196	-0.0102	0.2599	-0.1357	0.0000
2006	10-Aug	1	C	15	0.0000	0.0055	-0.0010	0.4280	-0.0748	0.0000
2006	10-Aug	2	C	15	0.0000	0.0112	-0.0020	0.3655	-0.0639	0.0000
2006	10-Aug	3	C	15	-0.0021	0.0036	-0.0006	0.1226	-0.0214	0.0010
2006	10-Aug	1	T	15	-0.0089	0.0369	-0.0064	2.7676	-0.4831	0.0000
2006	10-Aug	2	T	15	-0.0005	0.0190	-0.0033	1.4221	-0.2482	0.0000
2006	10-Aug	3	T	15	0.0000	0.0118	-0.0021	1.0086	-0.1760	0.0000
2006	10-Aug	1	C	30	0.0000	0.0364	-0.0055	0.5858	-0.0889	0.0000
2006	10-Aug	2	C	30	0.0000	0.0057	-0.0009	0.4064	-0.0617	0.0000
2006	10-Aug	3	C	30	0.0000	0.1804	-0.0274	0.9244	-0.1403	0.0002
2006	10-Aug	1	T	30	0.0000	0.0048	-0.0007	0.2218	-0.0340	0.0000
2006	10-Aug	2	T	30	0.0000	0.0393	-0.0060	0.9923	-0.1521	0.0000
2006	10-Aug	3	T	30	0.0000	0.0064	-0.0010	0.3920	-0.0601	0.0000
2006	10-Aug	1	C	60	0.0000	0.5116	-0.0546	3.9860	-0.4252	0.0000
2006	10-Aug	2	C	60	0.0000	0.0488	-0.0052	2.4123	-0.2573	0.0000
2006	10-Aug	3	C	60	-0.0057	0.1187	-0.0127	2.4777	-0.2643	0.0012
2006	10-Aug	1	T	60	0.0000	0.1017	-0.0112	3.8742	-0.4269	0.0000
2006	10-Aug	2	T	60	0.0000	0.7201	-0.0794	15.5468	-1.7132	0.0000
2006	10-Aug	3	T	60	0.0000	0.7106	-0.0783	8.7501	-0.9642	0.0000
2006	10-Aug	1	C	120	0.0000	0.1976	-0.0137	3.5044	-0.2422	0.0000
2006	10-Aug	2	C	120	0.0000	0.0996	-0.0069	2.2744	-0.1572	0.0002
2006	10-Aug	3	C	120	-0.0016	0.1595	-0.0110	2.8026	-0.1937	0.0009
2006	10-Aug	1	T	120	0.0000	0.0409	-0.0039	1.6028	-0.1511	0.0000
2006	10-Aug	2	T	120	0.0000	0.8256	-0.0778	3.6117	-0.3405	0.0000
2006	10-Aug	3	T	120	0.0000	0.0271	-0.0026	0.5093	-0.0480	0.0000
2006	10-Aug	1	C	200	0.0000	0.0029	-0.0004	0.0718	-0.0101	0.0000
2006	10-Aug	2	C	200	0.0000	0.0061	-0.0009	0.2653	-0.0374	0.0011
2006	10-Aug	3	C	200	0.0000	0.0118	-0.0017	0.5491	-0.0774	0.0016
2006	10-Aug	1	T	200	0.0000	0.0024	-0.0004	0.0653	-0.0123	0.0000
2006	10-Aug	2	T	200	0.0000	0.0145	-0.0027	0.1996	-0.0375	0.0000
2006	10-Aug	3	T	200	0.0000	0.0199	-0.0037	0.3553	-0.0668	0.0000
2006	17-Aug	1	C	15	-0.0023	0.0024	-0.0019	0.1396	-0.1118	0.0014
2006	17-Aug	2	C	15	-0.0378	0.0164	-0.0132	0.6804	-0.5451	0.0000
2006	17-Aug	3	C	15	-0.0529	0.0029	-0.0024	0.0984	-0.0788	0.0022
2006	17-Aug	1	T	15	-0.1045	0.0553	-0.0436	3.1337	-2.4703	0.0019
2006	17-Aug	2	T	15	-0.0619	0.0117	-0.0092	0.9831	-0.7750	0.0012
2006	17-Aug	3	T	15	-0.0399	0.0152	-0.0120	1.1162	-0.8799	0.0020
2006	17-Aug	1	C	30	-0.0104	0.0289	-0.0207	0.6377	-0.4565	0.0018
2006	17-Aug	2	C	30	-0.0074	0.0037	-0.0026	0.4371	-0.3129	0.0017
2006	17-Aug	3	C	30	-0.0231	0.1676	-0.1199	0.7838	-0.5610	0.0016
2006	17-Aug	1	T	30	-0.0168	0.0053	-0.0036	0.3221	-0.2193	0.0012
2006	17-Aug	2	T	30	0.0000	0.0443	-0.0302	2.3887	-1.6262	0.0005
2006	17-Aug	3	T	30	-0.0207	0.0075	-0.0051	0.3704	-0.2522	0.0013

year	date	rep	trt	depth	B_2496	Ba4934	Ba4934	Ca3179	Ca3179	Cd2265
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	17-Aug	1	C	60	0.0000	0.4387	-0.2482	2.9812	-1.6868	0.0019
2006	17-Aug	2	C	60	-0.0258	0.0636	-0.0360	3.1990	-1.8100	0.0011
2006	17-Aug	3	C	60	-0.0224	0.1184	-0.0670	2.3494	-1.3293	0.0019
2006	17-Aug	1	T	60	-0.0212	0.0989	-0.0485	3.9144	-1.9193	0.0019
2006	17-Aug	2	T	60	-0.0085	0.7543	-0.3698	15.7173	-7.7062	0.0019
2006	17-Aug	3	T	60	-0.0263	0.6504	-0.3189	7.7386	-3.7943	0.0019
2006	17-Aug	1	C	120	-0.0030	0.1415	-0.0362	2.6261	-0.6722	0.0014
2006	17-Aug	2	C	120	-0.0083	0.1093	-0.0280	2.1993	-0.5630	0.0014
2006	17-Aug	3	C	120	0.0000	0.1720	-0.0440	3.1892	-0.8163	0.0006
2006	17-Aug	1	T	120	0.0000	0.0395	-0.0056	1.6119	-0.2289	0.0015
2006	17-Aug	2	T	120	-0.0060	0.8197	-0.1164	3.9597	-0.5623	0.0023
2006	17-Aug	3	T	120	0.0000	0.0274	-0.0039	0.5242	-0.0744	0.0010
2006	17-Aug	1	C	200	0.0000	0.0056	-0.0006	0.3900	-0.0400	0.0000
2006	17-Aug	2	C	200	-0.0054	0.0065	-0.0007	0.2551	-0.0262	0.0012
2006	17-Aug	3	C	200	-0.0032	0.0086	-0.0009	0.1753	-0.0180	0.0019
2006	17-Aug	1	T	200	-0.0024	0.0023	-0.0003	0.0452	-0.0058	0.0000
2006	17-Aug	2	T	200	-0.0034	0.0130	-0.0017	0.3106	-0.0396	0.0000
2006	17-Aug	3	T	200	-0.0048	0.0195	-0.0025	0.2875	-0.0367	0.0014
2006	24-Aug	1	C	15	-0.0308	0.0029	-0.0017	0.1808	-0.1064	0.0018
2006	24-Aug	2	C	15	0.0000	0.0039	-0.0023	0.2388	-0.1406	0.0005
2006	24-Aug	3	C	15	-0.0260	0.0029	-0.0017	0.1051	-0.0618	0.0014
2006	24-Aug	1	T	15	-0.0508	0.0323	-0.0190	2.8448	-1.6689	0.0018
2006	24-Aug	2	T	15	-0.0438	0.0141	-0.0083	1.1139	-0.6534	0.0015
2006	24-Aug	3	T	15	-0.0123	0.0167	-0.0098	1.0359	-0.6077	0.0024
2006	24-Aug	1	C	30	-0.0510	0.0292	-0.0166	0.8593	-0.4874	0.0028
2006	24-Aug	2	C	30	-0.0069	0.0031	-0.0017	0.4362	-0.2474	0.0015
2006	24-Aug	3	C	30	-0.0104	0.1171	-0.0664	0.6458	-0.3663	0.0012
2006	24-Aug	1	T	30	-0.0167	0.0074	-0.0042	0.4271	-0.2434	0.0012
2006	24-Aug	2	T	30	-0.0451	0.0348	-0.0198	2.2829	-1.3010	0.0012
2006	24-Aug	3	T	30	-0.0034	0.0202	-0.0115	0.8126	-0.4631	0.0012
2006	24-Aug	1	C	60	-0.0125	0.4129	-0.2251	2.3872	-1.3014	0.0022
2006	24-Aug	2	C	60	-0.0399	0.0219	-0.0119	1.0273	-0.5601	0.0015
2006	24-Aug	3	C	60	-0.0158	0.0514	-0.0280	0.9496	-0.5177	0.0012
2006	24-Aug	1	T	60	-0.0368	0.0774	-0.0422	2.6361	-1.4358	0.0023
2006	24-Aug	2	T	60	-0.0171	0.6448	-0.3512	13.1702	-7.1736	0.0020
2006	24-Aug	3	T	60	-0.0252	0.8489	-0.4624	8.5739	-4.6701	0.0016
2006	24-Aug	1	C	120	0.0000	0.1157	-0.0589	2.2603	-1.1504	0.0022
2006	24-Aug	2	C	120	-0.0101	0.1018	-0.0518	1.9113	-0.9728	0.0015
2006	24-Aug	3	C	120	-0.0016	0.1547	-0.0787	2.4083	-1.2257	0.0015
2006	24-Aug	1	T	120	0.0000	0.0415	-0.0214	1.8767	-0.9695	0.0001
2006	24-Aug	2	T	120	-0.0131	0.8468	-0.4375	4.0624	-2.0987	0.0017
2006	24-Aug	3	T	120	-0.0039	0.0297	-0.0154	0.5492	-0.2837	0.0006
2006	24-Aug	1	C	200	-0.0140	0.0033	-0.0015	0.0789	-0.0363	0.0017
2006	24-Aug	2	C	200	-0.0253	0.0067	-0.0031	0.2718	-0.1251	0.0015
2006	24-Aug	3	C	200	0.0000	0.0108	-0.0050	0.6039	-0.2779	0.0022
2006	24-Aug	1	T	200	-0.0054	0.0016	-0.0006	0.0799	-0.0287	0.0004

year	date	rep	trt	depth	B_2496	Ba4934	Ba4934	Ca3179	Ca3179	Cd2265
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	24-Aug	2	T	200	0.0000	0.0126	-0.0045	0.3565	-0.1283	0.0001
2006	24-Aug	3	T	200	-0.0124	0.0209	-0.0075	0.2680	-0.0964	0.0015
2006	31-Aug	1	C	15	-0.0207	0.0046	-0.0021	0.3159	-0.1438	0.0011
2006	31-Aug	2	C	15						
2006	31-Aug	3	C	15	-0.0310	0.0046	-0.0021	0.1570	-0.0715	0.0011
2006	31-Aug	1	T	15	-0.0572	0.0357	-0.0176	2.6977	-1.3293	0.0018
2006	31-Aug	2	T	15	-0.0517	0.0238	-0.0117	1.8001	-0.8870	0.0015
2006	31-Aug	3	T	15	-0.0255	0.0150	-0.0074	0.9853	-0.4855	0.0017
2006	31-Aug	1	C	30	-0.0191	0.0139	-0.0073	0.3421	-0.1803	0.0017
2006	31-Aug	2	C	30	-0.0151	0.0042	-0.0022	0.5094	-0.2685	0.0010
2006	31-Aug	3	C	30	0.0000	0.0947	-0.0499	0.8788	-0.4632	0.0006
2006	31-Aug	1	T	30	-0.0205	0.0119	-0.0068	0.7389	-0.4212	0.0012
2006	31-Aug	2	T	30	-0.0161	0.0288	-0.0164	2.0661	-1.1777	0.0015
2006	31-Aug	3	T	30						
2006	31-Aug	1	C	60	-0.0304	0.2086	-0.1352	1.6903	-1.0955	0.0010
2006	31-Aug	2	C	60	-0.0343	0.0096	-0.0062	0.3984	-0.2582	0.0010
2006	31-Aug	3	C	60	-0.0097	0.0888	-0.0576	1.5275	-0.9900	0.0012
2006	31-Aug	1	T	60	0.0000	0.0778	-0.0552	2.6336	-1.8687	0.0006
2006	31-Aug	2	T	60	0.0000	0.5743	-0.4075	13.8582	-9.8336	0.0015
2006	31-Aug	3	T	60	-0.0189	0.5931	-0.4208	5.0963	-3.6162	0.0018
2006	31-Aug	1	C	120	-0.0518	0.1106	-0.0880	2.4106	-1.9190	0.0017
2006	31-Aug	2	C	120	-0.0096	0.0998	-0.0795	1.9562	-1.5572	0.0013
2006	31-Aug	3	C	120	-0.0513	0.1855	-0.1477	2.7492	-2.1885	0.0014
2006	31-Aug	1	T	120	-0.0180	0.0280	-0.0229	1.2383	-1.0135	0.0007
2006	31-Aug	2	T	120	-0.0038	0.8250	-0.6752	4.4433	-3.6364	0.0015
2006	31-Aug	3	T	120	0.0000	0.0268	-0.0219	0.7675	-0.6282	0.0000
2006	31-Aug	1	C	200	-0.0048	0.0031	-0.0025	0.0649	-0.0515	0.0000
2006	31-Aug	2	C	200	-0.0132	0.0063	-0.0050	0.2681	-0.2130	0.0010
2006	31-Aug	3	C	200	0.0000	0.0086	-0.0068	0.1841	-0.1462	0.0005
2006	31-Aug	1	T	200	-0.0330	0.0023	-0.0017	0.0524	-0.0394	0.0007
2006	31-Aug	2	T	200	0.0000	0.0124	-0.0093	0.2760	-0.2076	0.0002
2006	31-Aug	3	T	200	-0.0091	0.0214	-0.0161	0.3150	-0.2369	0.0007
2006	7-Sep	1	C	15	-0.0002	0.0195	-0.0003	1.0559	-0.0185	0.0009
2006	7-Sep	2	C	15	-0.0005	0.0293	-0.0005	1.2300	-0.0215	0.0000
2006	7-Sep	3	C	15	-0.0005	0.0177	-0.0003	0.4012	-0.0070	0.0012
2006	7-Sep	1	T	15	-0.0021	0.0709	-0.0016	4.3621	-0.0996	0.0014
2006	7-Sep	2	T	15	-0.0016	0.0296	-0.0007	2.0515	-0.0469	0.0012
2006	7-Sep	3	T	15	-0.0004	0.0322	-0.0007	2.1311	-0.0487	0.0012
2006	7-Sep	1	C	30	-0.0007	0.0322	-0.0009	0.5767	-0.0163	0.0007
2006	7-Sep	2	C	30	0.0000	0.0177	-0.0005	1.8702	-0.0528	0.0000
2006	7-Sep	3	C	30	0.0000	0.1302	-0.0037	0.6809	-0.0192	0.0010
2006	7-Sep	1	T	30	-0.0022	0.0167	-0.0006	0.9395	-0.0343	0.0014
2006	7-Sep	2	T	30	-0.0015	0.0342	-0.0012	1.9068	-0.0696	0.0012
2006	7-Sep	3	T	30	-0.0012	0.0189	-0.0007	0.6946	-0.0254	0.0011
2006	7-Sep	1	C	60	-0.0030	0.2473	-0.0118	1.4882	-0.0711	0.0014
2006	7-Sep	2	C	60	-0.0012	0.0435	-0.0021	1.8714	-0.0893	0.0011

year	date	rep	trt	depth	B_2496	Ba4934	Ba4934	Ca3179	Ca3179	Cd2265
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	7-Sep	3	C	60	-0.0012	0.1005	-0.0048	1.5162	-0.0724	0.0010
2006	7-Sep	1	T	60	-0.0036	0.0895	-0.0063	2.9006	-0.2032	0.0017
2006	7-Sep	2	T	60	-0.0036	0.5116	-0.0358	8.9971	-0.6301	0.0012
2006	7-Sep	3	T	60	-0.0019	0.4429	-0.0310	4.0173	-0.2814	0.0011
2006	7-Sep	1	C	120	0.0000	0.1786	-0.0226	3.0285	-0.3831	0.0013
2006	7-Sep	2	C	120	0.0000	0.1081	-0.0137	1.7077	-0.2160	0.0007
2006	7-Sep	3	C	120	-0.0026	0.0123	-0.0016	0.2307	-0.0292	0.0009
2006	7-Sep	1	T	120	-0.0047	0.0433	-0.0080	1.5315	-0.2834	0.0010
2006	7-Sep	2	T	120	-0.0024	0.8111	-0.1501	4.8977	-0.9062	0.0004
2006	7-Sep	3	T	120	0.0000	0.0342	-0.0063	0.7453	-0.1379	0.0001
2006	7-Sep	1	C	200	-0.0012	0.0069	-0.0017	0.0662	-0.0163	0.0010
2006	7-Sep	2	C	200	-0.0102	0.0130	-0.0032	0.3029	-0.0747	0.0014
2006	7-Sep	3	C	200	0.0000	0.1546	-0.0381	1.8764	-0.4628	0.0003
2006	7-Sep	1	T	200	0.0000	0.0025	-0.0008	0.0372	-0.0127	0.0000
2006	7-Sep	2	T	200	-0.0025	0.0195	-0.0067	0.2828	-0.0963	0.0006
2006	7-Sep	3	T	200	-0.0080	0.0264	-0.0090	0.3610	-0.1230	0.0016
2006	14-Sep	1	C	15	0.0000	0.0504	-0.0031	5.7168	-0.3483	0.0000
2006	14-Sep	2	C	15	-0.0026	0.0426	-0.0026	1.7404	-0.1060	0.0012
2006	14-Sep	3	C	15	-0.0038	0.0444	-0.0027	1.1195	-0.0682	0.0008
2006	14-Sep	1	T	15	-0.0074	0.2054	-0.0125	11.6844	-0.7092	0.0012
2006	14-Sep	2	T	15	-0.0035	0.0399	-0.0024	2.7032	-0.1641	0.0008
2006	14-Sep	3	T	15	-0.0030	0.0685	-0.0042	4.5440	-0.2758	0.0004
2006	14-Sep	1	C	30	0.0000	0.0325	-0.0020	0.8278	-0.0502	0.0009
2006	14-Sep	2	C	30	-0.0015	0.0169	-0.0010	2.0803	-0.1261	0.0010
2006	14-Sep	3	C	30	-0.0022	0.0983	-0.0060	0.7517	-0.0456	0.0005
2006	14-Sep	1	T	30	-0.0036	0.0255	-0.0016	1.3721	-0.0864	0.0008
2006	14-Sep	2	T	30	-0.0017	0.0434	-0.0027	2.7699	-0.1743	0.0006
2006	14-Sep	3	T	30	0.0000	0.0209	-0.0013	0.7501	-0.0472	0.0009
2006	14-Sep	1	C	60	-0.0003	0.2120	-0.0130	1.4375	-0.0885	0.0014
2006	14-Sep	2	C	60	-0.0018	0.0377	-0.0023	1.8151	-0.1117	0.0015
2006	14-Sep	3	C	60	0.0000	0.0965	-0.0059	1.7316	-0.1066	0.0000
2006	14-Sep	1	T	60	0.0000	0.1041	-0.0071	3.0692	-0.2104	0.0007
2006	14-Sep	2	T	60	0.0000	0.5215	-0.0358	10.5233	-0.7214	0.0012
2006	14-Sep	3	T	60	0.0000	0.4339	-0.0297	3.8662	-0.2650	0.0011
2006	14-Sep	1	C	120	0.0000	0.1840	-0.0145	3.0474	-0.2394	0.0012
2006	14-Sep	2	C	120	-0.0004	0.1078	-0.0085	1.9275	-0.1514	0.0005
2006	14-Sep	3	C	120	-0.0008	0.1450	-0.0114	2.4656	-0.1937	0.0006
2006	14-Sep	1	T	120	0.0000	0.0519	-0.0053	1.9142	-0.1965	0.0000
2006	14-Sep	2	T	120	-0.0045	0.7875	-0.0808	4.6920	-0.4816	0.0010
2006	14-Sep	3	T	120	-0.0034	0.0345	-0.0035	0.4145	-0.0425	0.0006
2006	14-Sep	1	C	200	-0.0049	0.0071	-0.0009	0.0767	-0.0101	0.0007
2006	14-Sep	2	C	200	0.0000	0.0133	-0.0017	0.2878	-0.0378	0.0008
2006	14-Sep	3	C	200	0.0000	0.0128	-0.0017	0.2335	-0.0307	0.0008
2006	14-Sep	1	T	200	0.0000	0.0065	-0.0012	0.0724	-0.0128	0.0000
2006	14-Sep	2	T	200	-0.0030	0.0193	-0.0034	0.2566	-0.0455	0.0011
2006	14-Sep	3	T	200	0.0000	0.0247	-0.0044	0.2920	-0.0518	0.0008

year	date	rep	trt	depth	B_2496	Ba4934	Ba4934	Ca3179	Ca3179	Cd2265
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	21-Sep	1	C	15	-0.0009	0.0530	-0.0033	6.9575	-0.4362	0.0008
2006	21-Sep	2	C	15	-0.0023	0.0920	-0.0058	4.6247	-0.2899	0.0002
2006	21-Sep	3	C	15	-0.0033	0.0320	-0.0020	0.8717	-0.0546	0.0015
2006	21-Sep	1	T	15	-0.0107	0.3620	-0.0239	26.6948	-1.7607	0.0025
2006	21-Sep	2	T	15	-0.0062	0.0729	-0.0048	5.3397	-0.3522	0.0009
2006	21-Sep	3	T	15	-0.0008	0.2623	-0.0173	12.8584	-0.8481	0.0011
2006	21-Sep	1	C	30	-0.0032	0.0348	-0.0027	1.0713	-0.0824	0.0005
2006	21-Sep	2	C	30	0.0000	0.0272	-0.0021	4.2324	-0.3255	0.0004
2006	21-Sep	3	C	30	-0.0056	0.0888	-0.0068	0.4849	-0.0373	0.0007
2006	21-Sep	1	T	30	-0.0012	0.0343	-0.0028	1.9883	-0.1643	0.0007
2006	21-Sep	2	T	30	0.0000	0.0483	-0.0040	3.4500	-0.2851	0.0009
2006	21-Sep	3	T	30	0.0000	0.0305	-0.0025	0.8272	-0.0684	0.0010
2006	21-Sep	1	C	60	-0.0010	0.1784	-0.0166	1.1220	-0.1043	0.0005
2006	21-Sep	2	C	60	-0.0023	0.0240	-0.0022	0.8635	-0.0803	0.0010
2006	21-Sep	3	C	60	-0.0041	0.0908	-0.0084	1.3894	-0.1292	0.0014
2006	21-Sep	1	T	60	-0.0045	0.1020	-0.0101	2.9732	-0.2934	0.0002
2006	21-Sep	2	T	60	-0.0012	0.4697	-0.0464	9.4050	-0.9283	0.0014
2006	21-Sep	3	T	60	0.0000	0.4644	-0.0458	3.6795	-0.3632	0.0009
2006	21-Sep	1	C	120	-0.0029	0.1816	-0.0171	3.0163	-0.2845	0.0000
2006	21-Sep	2	C	120	-0.0025	0.1182	-0.0111	2.7272	-0.2572	0.0018
2006	21-Sep	3	C	120	-0.0031	0.1366	-0.0129	2.2547	-0.2126	0.0007
2006	21-Sep	1	T	120	-0.0044	0.0524	-0.0053	1.6648	-0.1671	0.0012
2006	21-Sep	2	T	120	0.0000	0.7590	-0.0762	4.8516	-0.4870	0.0007
2006	21-Sep	3	T	120	0.0000	0.0329	-0.0033	0.3940	-0.0396	0.0013
2006	21-Sep	1	C	200	-0.0019	0.0070	-0.0007	0.0653	-0.0067	0.0003
2006	21-Sep	2	C	200	0.0000	0.0126	-0.0013	0.3608	-0.0370	0.0013
2006	21-Sep	3	C	200	0.0000	0.0118	-0.0012	0.1929	-0.0198	0.0000
2006	21-Sep	1	T	200	-0.0054	0.0061	-0.0008	0.0649	-0.0083	0.0011
2006	21-Sep	2	T	200	0.0000	0.0187	-0.0024	0.2217	-0.0285	0.0010
2006	21-Sep	3	T	200	-0.0014	0.0254	-0.0033	0.3786	-0.0487	0.0006
2006	28-Sep	1	C	15	-0.0046	0.0771	-0.0139	10.5736	-1.9089	0.0007
2006	28-Sep	2	C	15	-0.0195	0.1723	-0.0311	8.9701	-1.6194	0.0022
2006	28-Sep	3	C	15	-0.0138	0.0426	-0.0077	1.4541	-0.2625	0.0017
2006	28-Sep	1	T	15	-0.0203	0.2462	-0.0437	19.6591	-3.4931	0.0015
2006	28-Sep	2	T	15	-0.0128	0.0983	-0.0175	7.9600	-1.4144	0.0011
2006	28-Sep	3	T	15	-0.0046	0.3559	-0.0632	13.8317	-2.4577	0.0006
2006	28-Sep	1	C	30	-0.0105	0.0669	-0.0106	2.2096	-0.3499	0.0000
2006	28-Sep	2	C	30	0.0000	0.0370	-0.0059	7.4375	-1.1779	0.0015
2006	28-Sep	3	C	30	-0.0039	0.0822	-0.0130	0.5206	-0.0825	0.0010
2006	28-Sep	1	T	30	-0.0018	0.0531	-0.0079	3.5720	-0.5286	0.0008
2006	28-Sep	2	T	30	-0.0090	0.0596	-0.0088	4.2426	-0.6278	0.0001
2006	28-Sep	3	T	30	-0.0072	0.0516	-0.0076	2.4036	-0.3557	0.0003
2006	28-Sep	1	C	60	-0.0085	0.1555	-0.0188	1.3183	-0.1590	0.0023
2006	28-Sep	2	C	60	-0.0014	0.0446	-0.0054	2.2241	-0.2682	0.0013
2006	28-Sep	3	C	60	0.0000	0.0850	-0.0103	1.2691	-0.1531	0.0012
2006	28-Sep	1	T	60	-0.0021	0.1081	-0.0122	3.0903	-0.3474	0.0006

year	date	rep	trt	depth	B_2496	Ba4934	Ba4934	Ca3179	Ca3179	Cd2265
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	28-Sep	2	T	60	-0.0032	0.4500	-0.0506	8.6160	-0.9686	0.0010
2006	28-Sep	3	T	60	-0.0041	0.4190	-0.0471	3.4523	-0.3881	0.0006
2006	28-Sep	1	C	120	-0.0003	0.2159	-0.0183	3.3816	-0.2869	0.0004
2006	28-Sep	2	C	120	0.0000	0.1258	-0.0107	2.6379	-0.2238	0.0000
2006	28-Sep	3	C	120	-0.0017	0.1985	-0.0168	3.0366	-0.2577	0.0005
2006	28-Sep	1	T	120	0.0000	0.0515	-0.0047	1.5476	-0.1399	0.0008
2006	28-Sep	2	T	120	-0.0005	0.7095	-0.0641	4.6135	-0.4170	0.0004
2006	28-Sep	3	T	120	-0.0059	0.0311	-0.0028	0.4749	-0.0429	0.0001
2006	28-Sep	1	C	200	0.0000	0.0040	-0.0004	0.0994	-0.0094	0.0000
2006	28-Sep	2	C	200	0.0000	0.0091	-0.0009	0.3486	-0.0328	0.0012
2006	28-Sep	3	C	200	0.0000	0.0073	-0.0007	0.2277	-0.0214	0.0019
2006	28-Sep	1	T	200	0.0000	0.0063	-0.0007	0.0531	-0.0060	0.0000
2006	28-Sep	2	T	200	-0.0026	0.0149	-0.0017	0.2525	-0.0283	0.0000
2006	28-Sep	3	T	200	-0.0003	0.0232	-0.0026	0.3249	-0.0364	0.0004
2006	5-Oct	1	C	15	-0.0037	0.0701	-0.0231	9.8590	-3.2494	0.0011
2006	5-Oct	2	C	15	-0.0220	0.1099	-0.0362	4.4991	-1.4828	0.0019
2006	5-Oct	3	C	15	-0.0116	0.0564	-0.0186	1.4895	-0.4909	0.0007
2006	5-Oct	1	T	15	-0.0522	0.1520	-0.0479	10.4778	-3.3010	0.0015
2006	5-Oct	2	T	15	-0.0199	0.0860	-0.0271	7.1470	-2.2516	0.0014
2006	5-Oct	3	T	15	-0.0043	0.1865	-0.0588	6.8178	-2.1479	0.0009
2006	5-Oct	1	C	30	-0.0043	0.1548	-0.0445	3.6040	-1.0368	0.0017
2006	5-Oct	2	C	30	0.0000	0.0431	-0.0124	8.2630	-2.3771	0.0009
2006	5-Oct	3	C	30	-0.0170	0.0789	-0.0227	0.4489	-0.1291	0.0011
2006	5-Oct	1	T	30	0.0000	0.0683	-0.0188	4.4232	-1.2186	0.0002
2006	5-Oct	2	T	30	-0.0113	0.0807	-0.0222	5.9531	-1.6400	0.0010
2006	5-Oct	3	T	30	0.0000	0.0698	-0.0192	3.7635	-1.0368	0.0012
2006	5-Oct	1	C	60	-0.0057	0.1504	-0.0358	1.4321	-0.3410	0.0006
2006	5-Oct	2	C	60	-0.0026	0.0348	-0.0083	1.5889	-0.3783	0.0010
2006	5-Oct	3	C	60	0.0000	0.0765	-0.0182	1.6147	-0.3845	0.0012
2006	5-Oct	1	T	60	-0.0008	0.1089	-0.0243	3.2174	-0.7163	0.0015
2006	5-Oct	2	T	60	0.0000	0.5043	-0.1123	9.9462	-2.2143	0.0018
2006	5-Oct	3	T	60	-0.0004	0.4304	-0.0958	2.8365	-0.6315	0.0004
2006	5-Oct	1	C	120	-0.0018	0.2113	-0.0341	3.4310	-0.5533	0.0003
2006	5-Oct	2	C	120	-0.0018	0.1320	-0.0213	2.6307	-0.4243	0.0011
2006	5-Oct	3	C	120	0.0000	0.1901	-0.0307	2.8943	-0.4668	0.0001
2006	5-Oct	1	T	120	-0.0021	0.0467	-0.0063	1.7172	-0.2323	0.0001
2006	5-Oct	2	T	120	-0.0009	0.7116	-0.0963	4.5881	-0.6207	0.0017
2006	5-Oct	3	T	120	-0.0005	0.0406	-0.0055	0.5430	-0.0735	0.0012
2006	5-Oct	1	C	200	-0.0071	0.0032	-0.0003	0.0843	-0.0083	0.0014
2006	5-Oct	2	C	200	0.0000	0.0079	-0.0008	0.3279	-0.0322	0.0015
2006	5-Oct	3	C	200	-0.0012	0.0076	-0.0007	0.6025	-0.0591	0.0010
2006	5-Oct	1	T	200	0.0000	0.0028	-0.0003	0.0790	-0.0082	0.0007
2006	5-Oct	2	T	200	0.0000	0.0152	-0.0016	0.2569	-0.0267	0.0020
2006	5-Oct	3	T	200	0.0000	0.0291	-0.0030	0.7573	-0.0787	0.0000
2006	12-Oct	1	C	15	0.0000	0.0593	-0.0081	8.9343	-1.2168	0.0010
2006	12-Oct	2	C	15	-0.0148	0.0364	-0.0050	1.4605	-0.1989	0.0017

year	date	rep	trt	depth	B_2496	Ba4934	Ba4934	Ca3179	Ca3179	Cd2265
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	12-Oct	3	C	15	-0.0012	0.0447	-0.0061	1.3172	-0.1794	0.0019
2006	12-Oct	1	T	15	-0.0116	0.0501	-0.0067	3.7153	-0.4965	0.0013
2006	12-Oct	2	T	15	-0.0029	0.0821	-0.0110	6.0484	-0.8084	0.0013
2006	12-Oct	3	T	15	-0.0074	0.3683	-0.0492	9.5361	-1.2745	0.0025
2006	12-Oct	1	C	30	-0.0024	0.3543	-0.0410	8.3589	-0.9677	0.0013
2006	12-Oct	2	C	30	0.0000	0.0464	-0.0054	7.3664	-0.8528	0.0009
2006	12-Oct	3	C	30	0.0000	0.0865	-0.0100	0.5330	-0.0617	0.0008
2006	12-Oct	1	T	30	-0.0067	0.1230	-0.0139	7.8995	-0.8949	0.0012
2006	12-Oct	2	T	30	0.0000	0.0839	-0.0095	5.9144	-0.6700	0.0012
2006	12-Oct	3	T	30	0.0000	0.1277	-0.0145	3.1399	-0.3557	0.0011
2006	12-Oct	1	C	60	0.0000	0.1326	-0.0130	1.3466	-0.1319	0.0013
2006	12-Oct	2	C	60	-0.0005	0.0592	-0.0058	3.2660	-0.3199	0.0024
2006	12-Oct	3	C	60	0.0000	0.0728	-0.0071	1.0382	-0.1017	0.0019
2006	12-Oct	1	T	60	-0.0018	0.1090	-0.0119	3.3122	-0.3628	0.0013
2006	12-Oct	2	T	60	0.0000	0.4764	-0.0522	7.3011	-0.7998	0.0014
2006	12-Oct	3	T	60	-0.0027	0.3721	-0.0408	2.6672	-0.2922	0.0012
2006	12-Oct	1	C	120	-0.0063	0.2273	-0.0300	3.4754	-0.4589	0.0014
2006	12-Oct	2	C	120	0.0000	0.1267	-0.0167	2.4575	-0.3245	0.0012
2006	12-Oct	3	C	120	-0.0007	0.1584	-0.0209	2.0109	-0.2655	0.0000
2006	12-Oct	1	T	120	-0.0014	0.0549	-0.0083	2.0116	-0.3039	0.0009
2006	12-Oct	2	T	120	-0.0030	0.6788	-0.1025	4.7433	-0.7166	0.0017
2006	12-Oct	3	T	120	0.0000	0.0447	-0.0068	0.6080	-0.0919	0.0012
2006	12-Oct	1	C	200	0.0000	0.0031	-0.0004	0.1065	-0.0151	0.0010
2006	12-Oct	2	C	200	-0.0026	0.0076	-0.0011	0.3160	-0.0449	0.0013
2006	12-Oct	3	C	200	0.0000	0.0076	-0.0011	0.6441	-0.0915	0.0001
2006	12-Oct	1	T	200	-0.0044	0.0022	-0.0003	0.0664	-0.0085	0.0001
2006	12-Oct	2	T	200	0.0000	0.0155	-0.0020	0.2343	-0.0298	0.0009
2006	12-Oct	3	T	200	0.0000	0.0237	-0.0030	0.3140	-0.0400	0.0012
2006	19-Oct	1	C	15	0.0000	0.0708	-0.0330	9.9099	-4.6151	0.0015
2006	19-Oct	2	C	15	-0.0364	0.0334	-0.0156	1.7280	-0.8048	0.0000
2006	19-Oct	3	C	15	-0.0179	0.0393	-0.0183	1.3725	-0.6392	0.0014
2006	19-Oct	1	T	15	-0.0384	0.0392	-0.0173	2.6649	-1.1736	0.0000
2006	19-Oct	2	T	15	-0.0345	0.0675	-0.0297	5.7593	-2.5364	0.0023
2006	19-Oct	3	T	15	-0.0133	0.2800	-0.1233	5.7221	-2.5199	0.0020
2006	19-Oct	1	C	30	-0.0073	0.3021	-0.1213	7.8925	-3.1692	0.0012
2006	19-Oct	2	C	30	-0.0036	0.0314	-0.0126	6.3106	-2.5340	0.0006
2006	19-Oct	3	C	30	-0.0174	0.0910	-0.0365	0.8312	-0.3338	0.0006
2006	19-Oct	1	T	30	-0.0077	0.1843	-0.0648	10.1113	-3.5539	0.0013
2006	19-Oct	2	T	30	-0.0078	0.0954	-0.0335	6.6599	-2.3408	0.0006
2006	19-Oct	3	T	30	-0.0032	0.1975	-0.0694	2.9162	-1.0250	0.0005
2006	19-Oct	1	C	60	-0.0143	0.1213	-0.0321	1.1050	-0.2920	0.0020
2006	19-Oct	2	C	60	-0.0094	0.0448	-0.0118	1.6803	-0.4441	0.0007
2006	19-Oct	3	C	60	-0.0013	0.0626	-0.0165	0.9065	-0.2396	0.0012
2006	19-Oct	1	T	60	-0.0039	0.1113	-0.0217	3.0986	-0.6045	0.0014
2006	19-Oct	2	T	60	0.0000	0.4700	-0.0917	6.8715	-1.3406	0.0015
2006	19-Oct	3	T	60	-0.0043	0.3458	-0.0675	2.1865	-0.4266	0.0006

year	date	rep	trt	depth	B_2496	Ba4934	Ba4934	Ca3179	Ca3179	Cd2265
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	19-Oct	1	C	120	-0.0044	0.2069	-0.0285	3.3762	-0.4655	0.0000
2006	19-Oct	2	C	120	-0.0014	0.1292	-0.0178	2.4319	-0.3353	0.0009
2006	19-Oct	3	C	120	-0.0023	0.1598	-0.0220	2.1781	-0.3003	0.0000
2006	19-Oct	1	T	120	0.0000	0.0022	-0.0003	0.0649	-0.0085	0.0010
2006	19-Oct	2	T	120	-0.0021	0.6770	-0.0887	4.3916	-0.5751	0.0008
2006	19-Oct	3	T	120	-0.0011	0.0595	-0.0078	0.7913	-0.1036	0.0012
2006	19-Oct	1	C	200	-0.0014	0.0030	-0.0004	0.1316	-0.0174	0.0002
2006	19-Oct	2	C	200	-0.0071	0.0075	-0.0010	0.3513	-0.0465	0.0006
2006	19-Oct	3	C	200	-0.0055	0.0076	-0.0010	0.2366	-0.0313	0.0005
2006	19-Oct	1	T	200	0.0000	0.0540	-0.0072	1.9870	-0.2658	0.0014
2006	19-Oct	2	T	200	0.0000	0.0158	-0.0021	0.2122	-0.0284	0.0006
2006	19-Oct	3	T	200	-0.0005	0.0225	-0.0030	0.2803	-0.0375	0.0010
2006	26-Oct	1	C	15	0.0000	0.0440	-0.0720	6.6230	-10.8441	0.0016
2006	26-Oct	2	C	15	-0.0623	0.0156	-0.0256	0.6880	-1.1264	0.0013
2006	26-Oct	3	C	15	0.0000	0.0106	-0.0174	0.4027	-0.6594	0.0014
2006	26-Oct	1	T	15	-0.2138	0.0178	-0.0293	0.8974	-1.4778	0.0008
2006	26-Oct	2	T	15	-0.0575	0.0339	-0.0557	4.3462	-7.1570	0.0015
2006	26-Oct	3	T	15	0.0000	0.0295	-0.0485	1.5617	-2.5717	0.0018
2006	26-Oct	1	C	30	-0.0718	0.3166	-0.5286	9.2430	-15.4346	0.0000
2006	26-Oct	2	C	30	-0.0152	0.0154	-0.0256	3.1257	-5.2195	0.0015
2006	26-Oct	3	C	30	-0.0548	0.1196	-0.1998	1.3915	-2.3236	0.0005
2006	26-Oct	1	T	30	-0.0190	0.1263	-0.2143	7.1435	-12.1201	0.0009
2006	26-Oct	2	T	30	-0.0772	0.1099	-0.1865	9.7327	-16.5130	0.0014
2006	26-Oct	3	T	30	-0.0074	0.0292	-0.0496	1.0796	-1.8317	0.0015
2006	26-Oct	1	C	60	0.0000	0.0909	-0.1531	1.2799	-2.1556	0.0010
2006	26-Oct	2	C	60	-0.0308	0.0589	-0.0992	2.3886	-4.0228	0.0016
2006	26-Oct	3	C	60	-0.0564	0.0408	-0.0687	0.6316	-1.0637	0.0014
2006	26-Oct	1	T	60	0.0000	0.1133	-0.1989	4.7881	-8.4082	0.0011
2006	26-Oct	2	T	60	0.0000	0.5411	-0.9502	12.2662	-21.5403	0.0005
2006	26-Oct	3	T	60	-0.0664	0.1742	-0.3059	1.6929	-2.9729	0.0007
2006	26-Oct	1	C	120	-0.0409	0.1295	-0.2047	3.1890	-5.0402	0.0009
2006	26-Oct	2	C	120	-0.0337	0.1280	-0.2023	2.9576	-4.6744	0.0024
2006	26-Oct	3	C	120	0.0000	0.1920	-0.3034	2.8614	-4.5223	0.0019
2006	26-Oct	1	T	120	-0.0387	0.0372	-0.0593	3.4322	-5.4744	0.0013
2006	26-Oct	2	T	120	0.0000	0.5240	-0.8357	4.3246	-6.8977	0.0003
2006	26-Oct	3	T	120	-0.0209	0.0471	-0.0751	0.7931	-1.2650	0.0014
2006	26-Oct	1	C	200	0.0000	0.0024	-0.0034	0.0900	-0.1282	0.0015
2006	26-Oct	2	C	200	-0.0097	0.0077	-0.0110	0.3738	-0.5324	0.0003
2006	26-Oct	3	C	200	-0.0455	0.0065	-0.0092	0.2780	-0.3959	0.0023
2006	26-Oct	1	T	200	0.0000	0.0019	-0.0025	0.0734	-0.0989	0.0001
2006	26-Oct	2	T	200	-0.0442	0.0128	-0.0173	0.2617	-0.3524	0.0000
2006	26-Oct	3	T	200	-0.0391	0.0217	-0.0292	0.3214	-0.4328	0.0015
2006	2-Nov	1	C	15	0.0005	0.0472	0.0019	6.4835	0.2544	0.0007
2006	2-Nov	2	C	15	0.0013	0.0054	0.0002	0.2822	0.0111	0.0012
2006	2-Nov	3	C	15	0.0018	0.0073	0.0003	0.2983	0.0117	0.0017
2006	2-Nov	1	T	15	0.0023	0.0144	0.0004	0.8756	0.0241	0.0017

year	date	rep	trt	depth	B_2496	Ba4934	Ba4934	Ca3179	Ca3179	Cd2265
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	2-Nov	2	T	15	0.0021	0.0178	0.0005	1.7730	0.0487	0.0010
2006	2-Nov	3	T	15	0.0009	0.0106	0.0003	0.8426	0.0232	0.0011
2006	2-Nov	1	C	30	0.0000	0.1365	-0.0006	5.9894	-0.0246	0.0016
2006	2-Nov	2	C	30	-0.0002	0.0182	-0.0001	1.4894	-0.0061	0.0001
2006	2-Nov	3	C	30	-0.0001	0.1362	-0.0006	1.6122	-0.0066	0.0014
2006	2-Nov	1	T	30	0.0000	0.1439	-0.0044	6.8794	-0.2081	0.0010
2006	2-Nov	2	T	30	-0.0018	0.0935	-0.0028	8.9323	-0.2702	0.0010
2006	2-Nov	3	T	30	-0.0004	0.0279	-0.0008	1.0549	-0.0319	0.0014
2006	2-Nov	1	C	60	-0.0006	0.0994	-0.0062	0.9633	-0.0600	0.0012
2006	2-Nov	2	C	60	-0.0017	0.0636	-0.0040	3.0178	-0.1880	0.0018
2006	2-Nov	3	C	60	-0.0017	0.0592	-0.0037	0.8668	-0.0540	0.0013
2006	2-Nov	1	T	60	-0.0031	0.1298	-0.0130	4.8721	-0.4879	0.0013
2006	2-Nov	2	T	60	-0.0013	0.4002	-0.0401	7.1954	-0.7205	0.0020
2006	2-Nov	3	T	60	-0.0042	0.1462	-0.0146	1.3878	-0.1390	0.0018
2006	2-Nov	1	C	120	-0.0011	0.3280	-0.0450	3.7866	-0.5194	0.0011
2006	2-Nov	2	C	120	-0.0036	0.1118	-0.0153	2.6769	-0.3672	0.0010
2006	2-Nov	3	C	120	0.0000	0.1695	-0.0233	2.0578	-0.2823	0.0001
2006	2-Nov	1	T	120	-0.0010	0.0495	-0.0102	2.4179	-0.4973	0.0016
2006	2-Nov	2	T	120	0.0000	0.6477	-0.1332	4.8884	-1.0054	0.0017
2006	2-Nov	3	T	120	-0.0026	0.0627	-0.0129	1.4753	-0.3034	0.0006
2006	2-Nov	1	C	200	-0.0013	0.0031	-0.0008	0.0773	-0.0214	0.0015
2006	2-Nov	2	C	200	0.0000	0.0094	-0.0026	0.4514	-0.1247	0.0013
2006	2-Nov	3	C	200	0.0000	0.0084	-0.0023	0.6117	-0.1689	0.0017
2006	2-Nov	1	T	200	-0.0151	0.0016	-0.0006	0.0605	-0.0233	0.0007
2006	2-Nov	2	T	200	-0.0175	0.0144	-0.0055	0.2351	-0.0904	0.0015
2006	2-Nov	3	T	200	-0.0049	0.0204	-0.0078	0.3217	-0.1237	0.0002
2006	9-Nov	1	C	15	-0.0309	0.0383	-0.0183	6.1860	-2.9548	0.0015
2006	9-Nov	2	C	15	-0.0209	0.0025	-0.0012	0.2068	-0.0988	0.0000
2006	9-Nov	3	C	15	-0.0175	0.0126	-0.0060	0.4987	-0.2382	0.0013
2006	9-Nov	1	T	15	-0.0288	0.0085	-0.0039	0.5544	-0.2522	0.0015
2006	9-Nov	2	T	15	-0.0206	0.0206	-0.0094	3.2241	-1.4666	0.0015
2006	9-Nov	3	T	15	-0.0173	0.0131	-0.0059	0.8216	-0.3737	0.0006
2006	9-Nov	1	C	30	-0.0065	0.2236	-0.0747	6.8354	-2.2839	0.0017
2006	9-Nov	2	C	30	-0.0133	0.0540	-0.0180	2.2405	-0.7486	0.0014
2006	9-Nov	3	C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	9-Nov	1	T	30	-0.0063	0.0558	-0.0160	3.9144	-1.1195	0.0006
2006	9-Nov	2	T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	9-Nov	3	T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	9-Nov	1	C	60	-0.0044	0.0809	-0.0067	1.4592	-0.1208	0.0013
2006	9-Nov	2	C	60	-0.0015	0.0119	-0.0010	1.1098	-0.0919	0.0007
2006	9-Nov	3	C	60	0.0000	0.0499	-0.0041	0.8213	-0.0680	0.0014
2006	9-Nov	1	T	60	-0.0007	0.1364	-0.0042	5.5546	-0.1723	0.0006
2006	9-Nov	2	T	60	-0.0006	0.4963	-0.0154	11.3352	-0.3515	0.0004
2006	9-Nov	3	T	60						
2006	9-Nov	1	C	120	0.0000	0.3205	-0.0034	3.9773	-0.0424	0.0004
2006	9-Nov	2	C	120	-0.0001	0.1098	-0.0012	2.5803	-0.0275	0.0013

year	date	rep	trt	depth	B_2496	Ba4934	Ba4934	Ca3179	Ca3179	Cd2265
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	9-Nov	3	C	120	0.0000	0.1704	-0.0018	2.3423	-0.0249	0.0010
2006	9-Nov	1	T	120	-0.0018	0.0412	-0.0016	1.9142	-0.0765	0.0012
2006	9-Nov	2	T	120	-0.0016	0.6367	-0.0254	4.8204	-0.1926	0.0018
2006	9-Nov	3	T	120	-0.0006	0.0374	-0.0015	1.3088	-0.0523	0.0014
2006	9-Nov	1	C	200	-0.0061	0.0034	-0.0004	0.1163	-0.0139	0.0010
2006	9-Nov	2	C	200	-0.0059	0.0276	-0.0033	0.9752	-0.1162	0.0013
2006	9-Nov	3	C	200	0.0000	0.0082	-0.0010	0.2114	-0.0252	0.0005
2006	9-Nov	1	T	200	-0.0018	0.0015	-0.0003	0.0574	-0.0097	0.0010
2006	9-Nov	2	T	200	-0.0061	0.0144	-0.0025	0.2236	-0.0379	0.0011
2006	9-Nov	3	T	200	-0.0023	0.0211	-0.0036	0.3203	-0.0544	0.0005
2006	16-Nov	1	C	15	-0.0057	0.0500	-0.0294	7.0743	-4.1557	0.0027
2006	16-Nov	2	C	15	0.0000	0.0018	-0.0011	0.1584	-0.0931	0.0010
2006	16-Nov	3	C	15	0.0000	0.0114	-0.0067	0.3552	-0.2087	0.0010
2006	16-Nov	1	T	15	-0.0344	0.0092	-0.0055	0.4905	-0.2945	0.0009
2006	16-Nov	2	T	15	-0.0370	0.0189	-0.0114	2.2670	-1.3610	0.0012
2006	16-Nov	3	T	15	-0.0205	0.0140	-0.0084	1.0586	-0.6355	0.0014
2006	16-Nov	1	C	30	0.0000	0.1629	-0.0909	5.3061	-2.9630	0.0017
2006	16-Nov	2	C	30	-0.0162	0.0035	-0.0019	0.4862	-0.2715	0.0015
2006	16-Nov	3	C	30	-0.0144	0.0635	-0.0355	0.6350	-0.3546	0.0019
2006	16-Nov	1	T	30	0.0000	0.0482	-0.0290	2.9013	-1.7464	0.0015
2006	16-Nov	2	T	30	-0.0205	0.0895	-0.0539	7.8168	-4.7052	0.0012
2006	16-Nov	3	T	30	-0.0303	0.0219	-0.0132	1.1810	-0.7109	0.0016
2006	16-Nov	1	C	60	0.0000	0.0887	-0.0491	1.2362	-0.6839	0.0011
2006	16-Nov	2	C	60	0.0000	0.0337	-0.0186	1.2727	-0.7041	0.0015
2006	16-Nov	3	C	60	0.0000	0.0429	-0.0238	0.8590	-0.4752	0.0000
2006	16-Nov	1	T	60	-0.0145	0.0687	-0.0391	3.0714	-1.7481	0.0006
2006	16-Nov	2	T	60	0.0000	0.2846	-0.1620	4.8550	-2.7633	0.0018
2006	16-Nov	3	T	60	0.0000	0.1185	-0.0674	1.2925	-0.7357	0.0012
2006	16-Nov	1	C	120	0.0000	0.1501	-0.0366	3.2135	-0.7838	0.0009
2006	16-Nov	2	C	120	-0.0067	0.1087	-0.0265	2.4607	-0.6002	0.0009
2006	16-Nov	3	C	120	0.0000	0.1693	-0.0413	2.2601	-0.5512	0.0003
2006	16-Nov	1	T	120	-0.0042	0.0396	-0.0064	2.3896	-0.3841	0.0026
2006	16-Nov	2	T	120	0.0000	0.6214	-0.0999	4.7214	-0.7588	0.0015
2006	16-Nov	3	T	120	-0.0052	0.0679	-0.0109	1.0062	-0.1617	0.0012
2006	16-Nov	1	C	200	0.0000	0.0023	-0.0002	0.1226	-0.0098	0.0010
2006	16-Nov	2	C	200	0.0000	0.0122	-0.0010	0.4579	-0.0368	0.0014
2006	16-Nov	3	C	200	-0.0007	0.0073	-0.0006	0.1699	-0.0136	0.0000
2006	16-Nov	1	T	200	0.0000	0.0020	-0.0002	0.0793	-0.0081	0.0003
2006	16-Nov	2	T	200	0.0000	0.0149	-0.0015	0.2099	-0.0214	0.0006
2006	16-Nov	3	T	200	0.0000	0.0234	-0.0024	0.3251	-0.0331	0.0006
2006	23-Nov	1	C	15	0.0000	0.0523	-0.0134	7.3626	-1.8783	0.0000
2006	23-Nov	2	C	15	-0.0004	0.0021	-0.0005	0.1395	-0.0356	0.0000
2006	23-Nov	3	C	15	-0.0104	0.0099	-0.0025	0.3268	-0.0834	0.0000
2006	23-Nov	1	T	15	-0.0184	0.0063	-0.0017	0.4125	-0.1081	0.0000
2006	23-Nov	2	T	15	-0.0257	0.0153	-0.0040	1.7712	-0.4640	0.0001
2006	23-Nov	3	T	15	0.0000	0.0214	-0.0056	1.7087	-0.4476	0.0000

year	date	rep	trt	depth	B_2496	Ba4934	Ba4934	Ca3179	Ca3179	Cd2265
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	23-Nov	1	C	30	-0.0112	0.2010	-0.0497	4.5221	-1.1185	0.0005
2006	23-Nov	2	C	30	0.0000	0.0071	-0.0017	0.7611	-0.1883	0.0000
2006	23-Nov	3	C	30	-0.0189	0.0697	-0.0172	0.4263	-0.1055	0.0001
2006	23-Nov	1	T	30	-0.0083	0.0867	-0.0228	3.6851	-0.9685	0.0002
2006	23-Nov	2	T	30	-0.0061	0.0862	-0.0226	6.9820	-1.8351	0.0000
2006	23-Nov	3	T	30	-0.0156	0.0293	-0.0077	1.5940	-0.4190	0.0000
2006	23-Nov	1	C	60	-0.0074	0.1045	-0.0246	1.4193	-0.3341	0.0000
2006	23-Nov	2	C	60	-0.0017	0.0201	-0.0047	0.8186	-0.1927	0.0000
2006	23-Nov	3	C	60	0.0000	0.0500	-0.0118	0.7177	-0.1690	0.0000
2006	23-Nov	1	T	60	0.0000	0.1761	-0.0470	6.1044	-1.6295	0.0000
2006	23-Nov	2	T	60	-0.0072	0.2435	-0.0650	4.0254	-1.0745	0.0000
2006	23-Nov	3	T	60	0.0000	0.1500	-0.0400	1.3107	-0.3499	0.0000
2006	23-Nov	1	C	120	0.0000	0.2187	-0.0555	3.5557	-0.9029	0.0000
2006	23-Nov	2	C	120	0.0000	0.1213	-0.0308	2.8159	-0.7150	0.0000
2006	23-Nov	3	C	120	-0.0063	0.2201	-0.0559	2.6386	-0.6700	0.0000
2006	23-Nov	1	T	120	0.0000	0.0329	-0.0095	1.6035	-0.4601	0.0000
2006	23-Nov	2	T	120	-0.0169	0.6168	-0.1770	5.0488	-1.4486	0.0000
2006	23-Nov	3	T	120	-0.0015	0.1071	-0.0307	1.1951	-0.3429	0.0000
2006	23-Nov	1	C	200	0.0000	0.0028	-0.0007	0.0836	-0.0207	0.0000
2006	23-Nov	2	C	200	0.0000	0.0108	-0.0027	0.4242	-0.1051	0.0000
2006	23-Nov	3	C	200	-0.0048	0.0080	-0.0020	0.1605	-0.0398	0.0000
2006	23-Nov	1	T	200	-0.0014	0.0021	-0.0004	0.0502	-0.0096	0.0000
2006	23-Nov	2	T	200	0.0000	0.0172	-0.0033	0.5916	-0.1128	0.0000
2006	23-Nov	3	T	200	-0.0077	0.0261	-0.0050	0.3428	-0.0654	0.0002
2006	30-Nov	1	C	15	0.0000	0.0348	-0.0106	4.8465	-1.4782	0.0000
2006	30-Nov	2	C	15	-0.0042	0.0137	-0.0042	0.5752	-0.1754	0.0000
2006	30-Nov	3	C	15	-0.0027	0.0037	-0.0011	0.1421	-0.0433	0.0004
2006	30-Nov	1	T	15	-0.0175	0.0078	-0.0025	1.3741	-0.4352	0.0000
2006	30-Nov	2	T	15	-0.0120	0.0137	-0.0043	1.7363	-0.5500	0.0000
2006	30-Nov	3	T	15	0.0000	0.0194	-0.0062	1.1773	-0.3729	0.0000
2006	30-Nov	1	C	30	-0.0135	0.1504	-0.0468	2.8473	-0.8853	0.0000
2006	30-Nov	2	C	30	0.0000	0.0030	-0.0009	0.3639	-0.1131	0.0000
2006	30-Nov	3	C	30	0.0000	0.0620	-0.0193	0.6047	-0.1880	0.0005
2006	30-Nov	1	T	30	0.0000	0.0301	-0.0093	1.8547	-0.5762	0.0000
2006	30-Nov	2	T	30	0.0000	0.0730	-0.0227	6.0269	-1.8723	0.0000
2006	30-Nov	3	T	30	0.0000	0.0374	-0.0116	1.1598	-0.3603	0.0000
2006	30-Nov	1	C	60	-0.0015	0.1013	-0.0292	1.2373	-0.3569	0.0000
2006	30-Nov	2	C	60	0.0000	0.0146	-0.0042	0.4955	-0.1429	0.0000
2006	30-Nov	3	C	60	0.0000	0.0525	-0.0151	1.0674	-0.3079	0.0000
2006	30-Nov	1	T	60	-0.0108	0.1347	-0.0391	5.1589	-1.4976	0.0000
2006	30-Nov	2	T	60	-0.0085	0.2252	-0.0654	4.0152	-1.1656	0.0000
2006	30-Nov	3	T	60	-0.0170	0.1397	-0.0406	1.5478	-0.4493	0.0000
2006	30-Nov	1	C	120	-0.0063	0.3667	-0.0891	4.2819	-1.0408	0.0000
2006	30-Nov	2	C	120	-0.0080	0.1176	-0.0286	2.6303	-0.6393	0.0000
2006	30-Nov	3	C	120	0.0000	0.1874	-0.0456	2.3492	-0.5710	0.0000
2006	30-Nov	1	T	120	-0.0098	0.0360	-0.0085	2.1428	-0.5080	0.0007

year	date	rep	trt	depth	B_2496	Ba4934	Ba4934	Ca3179	Ca3179	Cd2265
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	30-Nov	2	T	120	0.0000	0.6445	-0.1528	5.3468	-1.2675	0.0000
2006	30-Nov	3	T	120	-0.0053	0.0709	-0.0168	1.0232	-0.2426	0.0000
2006	30-Nov	1	C	200	-0.0044	0.0024	-0.0006	0.0443	-0.0102	0.0000
2006	30-Nov	2	C	200	0.0000	0.0088	-0.0020	0.3878	-0.0895	0.0000
2006	30-Nov	3	C	200	0.0000	0.0072	-0.0017	0.1993	-0.0460	0.0000
2006	30-Nov	1	T	200	0.0000	0.0019	-0.0004	0.0654	-0.0147	0.0000
2006	30-Nov	2	T	200	-0.0097	0.0160	-0.0036	0.2558	-0.0576	0.0000
2006	30-Nov	3	T	200	-0.0035	0.0246	-0.0055	0.3381	-0.0761	0.0000
2006	7-Dec	1	T	15						
2006	7-Dec	2	T	15						
2006	7-Dec	3	T	15	-0.0008	0.0209	-0.0018	1.5791	-0.1385	0.0000
2006	7-Dec	1	C	30	-0.0017	0.1319	-0.0022	1.5132	-0.0258	0.0001
2006	7-Dec	2	C	30	-0.0005	0.0034	-0.0001	0.5460	-0.0093	0.0007
2006	7-Dec	3	C	30						
2006	7-Dec	1	T	30	0.0002	0.0126	0.0001	1.1202	0.0082	0.0000
2006	7-Dec	2	T	30	0.0006	0.0716	0.0005	5.7124	0.0418	0.0003
2006	7-Dec	3	T	30	0.0001	0.0392	0.0003	1.7092	0.0125	0.0010
2006	7-Dec	1	C	60	0.0002	0.1008	0.0008	1.2242	0.0094	0.0000
2006	7-Dec	2	C	60	0.0000	0.0286	0.0002	1.8821	0.0144	0.0008
2006	7-Dec	3	C	60	0.0001	0.0620	0.0005	1.0219	0.0078	0.0000
2006	7-Dec	1	T	60	-0.0001	0.1830	-0.0028	6.2286	-0.0957	0.0000
2006	7-Dec	2	T	60	-0.0008	0.3213	-0.0049	6.2139	-0.0955	0.0000
2006	7-Dec	3	T	60	0.0000	0.1712	-0.0026	1.3290	-0.0204	0.0000
2006	7-Dec	1	C	120	0.0000	0.4245	-0.0278	3.8252	-0.2508	0.0002
2006	7-Dec	2	C	120	-0.0024	0.1257	-0.0082	2.4105	-0.1581	0.0000
2006	7-Dec	3	C	120	0.0000	0.1849	-0.0121	2.4331	-0.1595	0.0004
2006	7-Dec	1	T	120	-0.0005	0.0337	-0.0036	1.5149	-0.1602	0.0000
2006	7-Dec	2	T	120	-0.0056	0.7025	-0.0743	5.5719	-0.5893	0.0001
2006	7-Dec	3	T	120	0.0000	0.1599	-0.0169	2.2638	-0.2394	0.0005
2006	7-Dec	1	C	200	0.0000	0.0041	-0.0007	0.0779	-0.0136	0.0000
2006	7-Dec	2	C	200	0.0000	0.0108	-0.0019	0.4467	-0.0780	0.0000
2006	7-Dec	3	C	200	-0.0013	0.0071	-0.0012	0.2040	-0.0356	0.0000
2006	7-Dec	1	T	200	0.0000	0.0019	-0.0004	0.0543	-0.0112	0.0000
2006	7-Dec	2	T	200	0.0000	0.0158	-0.0033	0.2612	-0.0540	0.0000
2006	7-Dec	3	T	200	-0.0079	0.0250	-0.0052	0.3717	-0.0769	0.0000
2006	14-Dec	1	C	15	0.0012	0.0036	0.0001	0.7667	0.0173	0.0000
2006	14-Dec	2	C	15	0.0008	0.0101	0.0002	1.2754	0.0287	0.0005
2006	14-Dec	3	C	15	0.0009	0.0037	0.0001	0.1877	0.0042	0.0000
2006	14-Dec	1	T	15	0.0000	0.0067	0.0000	0.5399	0.0002	0.0000
2006	14-Dec	2	T	15	0.0000	0.0162	0.0000	1.8457	0.0006	0.0000
2006	14-Dec	3	T	15	0.0000	0.0189	0.0000	0.5987	0.0002	0.0000
2006	14-Dec	1	C	30	-0.0018	0.2146	-0.0054	2.2364	-0.0568	0.0000
2006	14-Dec	2	C	30	-0.0005	0.0037	-0.0001	0.4133	-0.0105	0.0000
2006	14-Dec	3	C	30	-0.0025	0.0921	-0.0023	4.3172	-0.1096	0.0003
2006	14-Dec	1	T	30	-0.0044	0.0319	-0.0030	1.6589	-0.1546	0.0000
2006	14-Dec	2	T	30	-0.0018	0.0888	-0.0083	7.1357	-0.6648	0.0000

year	date	rep	trt	depth	B_2496	Ba4934	Ba4934	Ca3179	Ca3179	Cd2265
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	14-Dec	3	T	30	-0.0036	0.0384	-0.0036	0.9930	-0.0925	0.0000
2006	14-Dec	1	C	60	-0.0055	0.0878	-0.0077	0.9842	-0.0861	0.0000
2006	14-Dec	2	C	60	-0.0067	0.0227	-0.0020	1.3703	-0.1198	0.0000
2006	14-Dec	3	C	60	-0.0035	0.0516	-0.0045	0.7752	-0.0678	0.0000
2006	14-Dec	1	T	60	-0.0050	0.1791	-0.0151	5.9047	-0.4984	0.0000
2006	14-Dec	2	T	60	0.0000	0.2171	-0.0183	3.8124	-0.3218	0.0000
2006	14-Dec	3	T	60	0.0000	0.1544	-0.0130	1.2182	-0.1028	0.0000
2006	14-Dec	1	C	120	-0.0018	0.4174	-0.0209	3.8182	-0.1908	0.0000
2006	14-Dec	2	C	120	-0.0012	0.1247	-0.0062	2.6929	-0.1346	0.0000
2006	14-Dec	3	C	120	-0.0013	0.2303	-0.0115	3.5298	-0.1764	0.0000
2006	14-Dec	1	T	120	0.0000	0.0460	-0.0028	1.7759	-0.1086	0.0000
2006	14-Dec	2	T	120	-0.0022	0.6838	-0.0418	5.6447	-0.3452	0.0000
2006	14-Dec	3	T	120	-0.0020	0.0846	-0.0052	1.1540	-0.0706	0.0000
2006	14-Dec	1	C	200	0.0000	0.0064	-0.0006	0.4591	-0.0445	0.0000
2006	14-Dec	2	C	200	-0.0052	0.0112	-0.0011	0.4832	-0.0469	0.0000
2006	14-Dec	3	C	200	-0.0035	0.0089	-0.0009	0.5042	-0.0489	0.0000
2006	14-Dec	1	T	200	0.0000	0.0023	-0.0003	0.0661	-0.0085	0.0000
2006	14-Dec	2	T	200	-0.0027	0.0172	-0.0022	0.2756	-0.0356	0.0000
2006	14-Dec	3	T	200	0.0000	0.0257	-0.0033	0.4852	-0.0626	0.0000

year	date	rep	trt	depth	Cd2265	Cd2288	Cd2288	Co2286	Co2286	Cr2677
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	21-Apr	1	C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	21-Apr	2	C	15	0.0000	0.0002	0.0000	0.0000	0.0000	0.0000
2006	21-Apr	3	C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	21-Apr	1	T	15	-0.0001	0.0011	-0.0001	0.0000	0.0000	0.0000
2006	21-Apr	2	T	15	-0.0001	0.0017	-0.0001	0.0044	-0.0003	0.0000
2006	21-Apr	3	T	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	21-Apr	1	C	30	0.0000	0.0008	0.0000	0.0003	0.0000	0.0001
2006	21-Apr	2	C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	21-Apr	3	C	30						
2006	21-Apr	1	T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	21-Apr	2	T	30						
2006	21-Apr	3	T	30	0.0000	0.0005	0.0000	0.0006	0.0000	0.0006
2006	21-Apr	1	C	60						
2006	21-Apr	2	C	60	0.0000	0.0000	0.0000	0.0012	0.0000	0.0028
2006	21-Apr	3	C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	27-Apr	1	C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	27-Apr	2	C	15	-0.0010	0.0014	-0.0016	0.0022	-0.0025	0.0016
2006	27-Apr	3	C	15	-0.0003	0.0000	0.0000	0.0000	0.0000	0.0000
2006	27-Apr	1	T	15	-0.0002	0.0000	0.0000	0.0000	0.0000	0.0000
2006	27-Apr	2	T	15	-0.0005	0.0000	0.0000	0.0000	0.0000	0.0000
2006	27-Apr	3	T	15	-0.0003	0.0000	0.0000	0.0000	0.0000	0.0000
2006	27-Apr	1	C	30	-0.0004	0.0000	0.0000	0.0000	0.0000	0.0000
2006	27-Apr	2	C	30	-0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
2006	27-Apr	3	C	30	-0.0007	0.0000	0.0000	0.0000	0.0000	0.0000
2006	27-Apr	1	T	30	-0.0002	0.0000	0.0000	0.0000	0.0000	0.0000
2006	27-Apr	2	T	30	-0.0007	0.0000	0.0000	0.0000	0.0000	0.0000
2006	27-Apr	3	T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	27-Apr	1	C	60	-0.0005	0.0002	-0.0002	0.0000	0.0000	0.0000
2006	27-Apr	2	C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	27-Apr	3	C	60	-0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
2006	27-Apr	1	T	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	27-Apr	2	T	60	-0.0010	0.0020	-0.0016	0.0047	-0.0038	0.0008
2006	27-Apr	3	T	60	0.0000	0.0000	0.0000	0.0004	-0.0004	0.0000
2006	27-Apr	1	C	120	-0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
2006	27-Apr	2	C	120	-0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
2006	27-Apr	3	C	120	-0.0002	0.0006	-0.0003	0.0015	-0.0006	0.0004
2006	27-Apr	1	T	120	0.0000	0.0000	0.0000	0.0001	0.0000	0.0011
2006	27-Apr	2	T	120						
2006	27-Apr	3	T	120	0.0000	0.0000	0.0000	0.0007	-0.0001	0.0027
2006	27-Apr	1	C	200	0.0000	0.0010	0.0000	0.0008	0.0000	0.0000
2006	27-Apr	2	C	200	0.0000	0.0011	0.0000	0.0010	0.0000	0.0008
2006	27-Apr	3	C	200	0.0000	0.0003	0.0000	0.0008	0.0000	0.0006
2006	27-Apr	1	T	200	0.0000	0.0016	0.0000	0.0000	0.0000	0.0002
2006	27-Apr	2	T	200						
2006	27-Apr	3	T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	4-May	1	C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	4-May	2	C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

year	date	rep	trt	depth	Cd2265	Cd2288	Cd2288	Co2286	Co2286	Cr2677
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	4-May	3	C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	4-May	1	T	15	-0.0005	0.0000	0.0000	0.0000	0.0000	0.0004
2006	4-May	2	T	15	-0.0002	0.0005	-0.0002	0.0011	-0.0006	0.0007
2006	4-May	3	T	15	0.0000	0.0005	-0.0003	0.0000	0.0000	0.0000
2006	4-May	1	C	30	-0.0001	0.0000	0.0000	0.0000	0.0000	0.0001
2006	4-May	2	C	30	-0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
2006	4-May	3	C	30	-0.0004	0.0012	-0.0005	0.0000	0.0000	0.0000
2006	4-May	1	T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	4-May	2	T	30	0.0000	0.0000	0.0000	0.0054	-0.0026	0.0039
2006	4-May	3	T	30	-0.0002	0.0002	-0.0001	0.0000	0.0000	0.0000
2006	4-May	1	C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	4-May	2	C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	4-May	3	C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	4-May	1	T	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0005
2006	4-May	2	T	60	-0.0004	0.0000	0.0000	0.0013	-0.0006	0.0000
2006	4-May	3	T	60	-0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
2006	4-May	1	C	120	-0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
2006	4-May	2	C	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	4-May	3	C	120	-0.0003	0.0000	0.0000	0.0008	-0.0004	0.0010
2006	4-May	1	T	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	4-May	2	T	120						
2006	4-May	3	T	120	-0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
2006	4-May	1	C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0002
2006	4-May	2	C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	4-May	3	C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0009
2006	4-May	1	T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	4-May	2	T	200						
2006	4-May	3	T	200	0.0000	0.0013	0.0000	0.0012	0.0000	0.0005
2006	12-May	1	C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	2	C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	3	C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	1	T	15	-0.0006	0.0003	-0.0003	0.0000	0.0000	0.0000
2006	12-May	2	T	15	-0.0003	0.0005	-0.0005	0.0011	-0.0010	0.0009
2006	12-May	3	T	15	0.0000	0.0000	0.0000	0.0001	-0.0001	0.0000
2006	12-May	1	C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	2	C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	3	C	30	-0.0002	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	1	T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	2	T	30	0.0000	0.0000	0.0000	0.0004	-0.0004	0.0000
2006	12-May	3	T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	1	C	60	-0.0003	0.0002	-0.0002	0.0000	0.0000	0.0000
2006	12-May	2	C	60	-0.0001	0.0000	0.0000	0.0007	-0.0006	0.0000
2006	12-May	3	C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	1	T	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	2	T	60	-0.0001	0.0000	0.0000	0.0010	-0.0009	0.0000
2006	12-May	3	T	60	-0.0003	0.0000	0.0000	0.0000	0.0000	0.0000

year	date	rep	trt	depth	Cd2265	Cd2288	Cd2288	Co2286	Co2286	Cr2677
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	12-May	1	C	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	2	C	120						
2006	12-May	3	C	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	1	T	120	-0.0002	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	2	T	120	-0.0005	0.0018	-0.0016	0.0069	-0.0063	0.0000
2006	12-May	3	T	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	1	C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	2	C	200	-0.0002	0.0012	-0.0011	0.0013	-0.0012	0.0000
2006	12-May	3	C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	1	T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	2	T	200	-0.0003	0.0012	-0.0007	0.0001	0.0000	0.0003
2006	12-May	3	T	200	0.0000	0.0000	0.0000	0.0011	-0.0006	0.0015
2006	19-May	1	C	15	-0.0007	0.0046	-0.0013	0.0000	0.0000	0.0000
2006	19-May	2	C	15	-0.0007	0.0049	-0.0014	0.0000	0.0000	0.0000
2006	19-May	3	C	15	-0.0010	0.0058	-0.0016	0.0011	-0.0003	0.0000
2006	19-May	1	T	15	-0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
2006	19-May	2	T	15	-0.0007	0.0041	-0.0011	0.0014	-0.0004	0.0000
2006	19-May	3	T	15	-0.0008	0.0054	-0.0015	0.0000	0.0000	0.0000
2006	19-May	1	C	30	-0.0006	0.0040	-0.0012	0.0001	0.0000	0.0000
2006	19-May	2	C	30	-0.0002	0.0015	-0.0004	0.0030	-0.0009	0.0008
2006	19-May	3	C	30	-0.0001	0.0017	-0.0005	0.0034	-0.0010	0.0001
2006	19-May	1	T	30	-0.0001	0.0000	0.0000	0.0000	0.0000	0.0001
2006	19-May	2	T	30	-0.0009	0.0049	-0.0014	0.0033	-0.0010	0.0005
2006	19-May	3	T	30	-0.0001	0.0014	-0.0004	0.0026	-0.0008	0.0002
2006	19-May	1	C	60	-0.0007	0.0030	-0.0009	0.0029	-0.0009	0.0019
2006	19-May	2	C	60	-0.0009	0.0053	-0.0016	0.0000	0.0000	0.0000
2006	19-May	3	C	60	-0.0009	0.0056	-0.0017	0.0000	0.0000	0.0000
2006	19-May	1	T	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	19-May	2	T	60	-0.0009	0.0054	-0.0018	0.0008	-0.0003	0.0000
2006	19-May	3	T	60	-0.0009	0.0046	-0.0015	0.0000	0.0000	0.0000
2006	19-May	1	C	120	-0.0008	0.0049	-0.0017	0.0005	-0.0002	0.0000
2006	19-May	2	C	120	-0.0010	0.0050	-0.0018	0.0000	0.0000	0.0000
2006	19-May	3	C	120	0.0000	0.0017	-0.0006	0.0019	-0.0007	0.0008
2006	19-May	1	T	120	-0.0007	0.0038	-0.0014	0.0019	-0.0007	0.0004
2006	19-May	2	T	120	-0.0009	0.0026	-0.0010	0.0016	-0.0006	0.0000
2006	19-May	3	T	120	-0.0012	0.0051	-0.0020	0.0000	0.0000	0.0000
2006	19-May	1	C	200	-0.0010	0.0048	-0.0018	0.0000	0.0000	0.0000
2006	19-May	2	C	200	-0.0010	0.0045	-0.0017	0.0000	0.0000	0.0000
2006	19-May	3	C	200	-0.0010	0.0040	-0.0015	0.0000	0.0000	0.0000
2006	19-May	1	T	200	-0.0007	0.0040	-0.0017	0.0002	-0.0001	0.0009
2006	19-May	2	T	200	-0.0014	0.0045	-0.0019	0.0000	0.0000	0.0000
2006	19-May	3	T	200	-0.0001	0.0007	-0.0003	0.0003	-0.0001	0.0000
2006	27-May	1	C	15	-0.0018	0.0035	-0.0024	0.0000	0.0000	0.0000
2006	27-May	2	C	15	-0.0019	0.0043	-0.0030	0.0000	0.0000	0.0000
2006	27-May	3	C	15	-0.0017	0.0047	-0.0032	0.0006	-0.0004	0.0000
2006	27-May	1	T	15						
2006	27-May	2	T	15	-0.0022	0.0051	-0.0036	0.0000	0.0000	0.0000

year	date	rep	trt	depth	Cd2265	Cd2288	Cd2288	Co2286	Co2286	Cr2677
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	27-May	3	T	15	-0.0019	0.0056	-0.0039	0.0041	-0.0029	0.0000
2006	27-May	1	C	30	-0.0018	0.0053	-0.0036	0.0005	-0.0003	0.0000
2006	27-May	2	C	30	-0.0005	0.0010	-0.0006	0.0011	-0.0007	0.0001
2006	27-May	3	C	30	-0.0018	0.0037	-0.0025	0.0018	-0.0012	0.0000
2006	27-May	1	T	30	-0.0017	0.0046	-0.0031	0.0015	-0.0010	0.0000
2006	27-May	2	T	30	-0.0019	0.0038	-0.0026	0.0021	-0.0014	0.0000
2006	27-May	3	T	30	-0.0020	0.0043	-0.0029	0.0000	0.0000	0.0000
2006	27-May	1	C	60	-0.0018	0.0044	-0.0028	0.0000	0.0000	0.0000
2006	27-May	2	C	60	-0.0021	0.0047	-0.0030	0.0000	0.0000	0.0000
2006	27-May	3	C	60	-0.0009	0.0033	-0.0021	0.0038	-0.0024	0.0031
2006	27-May	1	T	60	-0.0020	0.0054	-0.0033	0.0000	0.0000	0.0000
2006	27-May	2	T	60	-0.0019	0.0052	-0.0032	0.0007	-0.0004	0.0000
2006	27-May	3	T	60	-0.0019	0.0049	-0.0031	0.0000	0.0000	0.0000
2006	27-May	1	C	120	-0.0012	0.0049	-0.0027	0.0000	0.0000	0.0000
2006	27-May	2	C	120	-0.0013	0.0048	-0.0026	0.0000	0.0000	0.0000
2006	27-May	3	C	120	-0.0015	0.0049	-0.0027	0.0003	-0.0001	0.0000
2006	27-May	1	T	120	-0.0011	0.0033	-0.0017	0.0012	-0.0006	0.0011
2006	27-May	2	T	120	-0.0014	0.0050	-0.0025	0.0006	-0.0003	0.0000
2006	27-May	3	T	120	-0.0014	0.0045	-0.0023	0.0037	-0.0018	0.0027
2006	27-May	1	C	200	-0.0009	0.0037	-0.0017	0.0000	0.0000	0.0001
2006	27-May	2	C	200	-0.0012	0.0047	-0.0022	0.0000	0.0000	0.0004
2006	27-May	3	C	200	-0.0010	0.0042	-0.0019	0.0000	0.0000	0.0000
2006	27-May	1	T	200	-0.0005	0.0016	-0.0006	0.0000	0.0000	0.0000
2006	27-May	2	T	200	-0.0012	0.0041	-0.0016	0.0013	-0.0005	0.0001
2006	27-May	3	T	200	-0.0011	0.0047	-0.0019	0.0004	-0.0002	0.0000
2006	1-Jun	1	C	15	-0.0015	0.0036	-0.0022	0.0000	0.0000	0.0000
2006	1-Jun	2	C	15	-0.0002	0.0012	-0.0008	0.0029	-0.0018	0.0000
2006	1-Jun	3	C	15	-0.0017	0.0045	-0.0028	0.0032	-0.0020	0.0000
2006	1-Jun	1	T	15	-0.0002	0.0016	-0.0010	0.0043	-0.0026	0.0009
2006	1-Jun	2	T	15	-0.0001	0.0006	-0.0004	0.0016	-0.0010	0.0003
2006	1-Jun	3	T	15	-0.0013	0.0040	-0.0024	0.0000	0.0000	0.0000
2006	1-Jun	1	C	30	-0.0006	0.0006	-0.0003	0.0039	-0.0023	0.0006
2006	1-Jun	2	C	30	-0.0013	0.0033	-0.0019	0.0007	-0.0004	0.0000
2006	1-Jun	3	C	30	-0.0018	0.0058	-0.0034	0.0000	0.0000	0.0000
2006	1-Jun	1	T	30	-0.0018	0.0045	-0.0026	0.0008	-0.0005	0.0000
2006	1-Jun	2	T	30	-0.0015	0.0053	-0.0030	0.0014	-0.0008	0.0000
2006	1-Jun	3	T	30	-0.0016	0.0043	-0.0025	0.0044	-0.0025	0.0010
2006	1-Jun	1	C	60	-0.0014	0.0051	-0.0029	0.0030	-0.0017	0.0000
2006	1-Jun	2	C	60	-0.0002	0.0008	-0.0004	0.0014	-0.0008	0.0000
2006	1-Jun	3	C	60	-0.0016	0.0043	-0.0024	0.0000	0.0000	0.0000
2006	1-Jun	1	T	60	-0.0015	0.0042	-0.0025	0.0000	0.0000	0.0000
2006	1-Jun	2	T	60	-0.0017	0.0052	-0.0030	0.0016	-0.0010	0.0000
2006	1-Jun	3	T	60	-0.0015	0.0036	-0.0021	0.0003	-0.0002	0.0000
2006	1-Jun	1	C	120	-0.0016	0.0051	-0.0031	0.0004	-0.0003	0.0000
2006	1-Jun	2	C	120	-0.0003	0.0009	-0.0005	0.0007	-0.0004	0.0005

year	date	rep	trt	depth	Cd2265	Cd2288	Cd2288	Co2286	Co2286	Cr2677
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	1-Jun	3	C	120	-0.0014	0.0032	-0.0019	0.0000	0.0000	0.0000
2006	1-Jun	1	T	120	-0.0014	0.0044	-0.0027	0.0000	0.0000	0.0000
2006	1-Jun	2	T	120	-0.0017	0.0053	-0.0033	0.0036	-0.0023	0.0000
2006	1-Jun	3	T	120	-0.0011	0.0045	-0.0028	0.0000	0.0000	0.0000
2006	1-Jun	1	C	200	-0.0002	0.0020	-0.0013	0.0019	-0.0012	0.0013
2006	1-Jun	2	C	200	-0.0016	0.0033	-0.0021	0.0000	0.0000	0.0000
2006	1-Jun	3	C	200	-0.0012	0.0034	-0.0022	0.0000	0.0000	0.0000
2006	1-Jun	1	T	200	-0.0015	0.0039	-0.0025	0.0000	0.0000	0.0006
2006	1-Jun	2	T	200	-0.0019	0.0061	-0.0039	0.0005	-0.0003	0.0003
2006	1-Jun	3	T	200	-0.0017	0.0038	-0.0024	0.0000	0.0000	0.0000
2006	9-Jun	1	C	15	-0.0012	0.0040	-0.0024	0.0000	0.0000	0.0003
2006	9-Jun	2	C	15	-0.0006	0.0015	-0.0009	0.0013	-0.0008	0.0000
2006	9-Jun	3	C	15	-0.0002	0.0008	-0.0005	0.0042	-0.0025	0.0022
2006	9-Jun	1	T	15	-0.0011	0.0025	-0.0015	0.0072	-0.0043	0.0002
2006	9-Jun	2	T	15	-0.0016	0.0042	-0.0025	0.0012	-0.0007	0.0000
2006	9-Jun	3	T	15	-0.0026	0.0070	-0.0042	0.0011	-0.0006	0.0000
2006	9-Jun	1	C	30	-0.0016	0.0045	-0.0027	0.0029	-0.0017	0.0000
2006	9-Jun	2	C	30	-0.0005	0.0014	-0.0008	0.0023	-0.0014	0.0022
2006	9-Jun	3	C	30	-0.0008	0.0024	-0.0014	0.0035	-0.0021	0.0000
2006	9-Jun	1	T	30	-0.0015	0.0047	-0.0028	0.0014	-0.0008	0.0000
2006	9-Jun	2	T	30	-0.0025	0.0062	-0.0036	0.0004	-0.0002	0.0000
2006	9-Jun	3	T	30	-0.0021	0.0055	-0.0032	0.0034	-0.0020	0.0001
2006	9-Jun	1	C	60	-0.0014	0.0039	-0.0022	0.0022	-0.0012	0.0000
2006	9-Jun	2	C	60	-0.0005	0.0016	-0.0009	0.0005	-0.0003	0.0003
2006	9-Jun	3	C	60	-0.0004	0.0011	-0.0006	0.0005	-0.0003	0.0000
2006	9-Jun	1	T	60	-0.0012	0.0048	-0.0026	0.0000	0.0000	0.0000
2006	9-Jun	2	T	60	-0.0009	0.0035	-0.0019	0.0029	-0.0016	0.0000
2006	9-Jun	3	T	60	-0.0015	0.0040	-0.0022	0.0000	0.0000	0.0000
2006	9-Jun	1	C	120	-0.0010	0.0045	-0.0022	0.0011	-0.0005	0.0000
2006	9-Jun	2	C	120	-0.0003	0.0013	-0.0006	0.0017	-0.0008	0.0000
2006	9-Jun	3	C	120	-0.0002	0.0012	-0.0006	0.0014	-0.0007	0.0000
2006	9-Jun	1	T	120	-0.0010	0.0036	-0.0017	0.0000	0.0000	0.0004
2006	9-Jun	2	T	120	-0.0014	0.0049	-0.0023	0.0054	-0.0025	0.0000
2006	9-Jun	3	T	120	-0.0009	0.0035	-0.0017	0.0000	0.0000	0.0000
2006	9-Jun	1	C	200	0.0000	0.0000	0.0000	0.0022	-0.0010	0.0009
2006	9-Jun	2	C	200	-0.0003	0.0014	-0.0006	0.0000	0.0000	0.0000
2006	9-Jun	3	C	200	-0.0004	0.0019	-0.0009	0.0003	-0.0001	0.0002
2006	9-Jun	1	T	200	-0.0012	0.0035	-0.0017	0.0000	0.0000	0.0000
2006	9-Jun	2	T	200	-0.0014	0.0055	-0.0027	0.0000	0.0000	0.0000
2006	9-Jun	3	T	200	-0.0014	0.0052	-0.0025	0.0000	0.0000	0.0005
2006	15-Jun	1	C	15	0.0000	0.0000	0.0000	0.0044	-0.0020	0.0033
2006	15-Jun	2	C	15	0.0000	0.0014	-0.0006	0.0012	-0.0005	0.0003
2006	15-Jun	3	C	15	-0.0001	0.0018	-0.0008	0.0037	-0.0016	0.0003
2006	15-Jun	1	T	15	-0.0006	0.0016	-0.0007	0.0062	-0.0029	0.0012
2006	15-Jun	2	T	15	-0.0007	0.0016	-0.0008	0.0017	-0.0008	0.0000
2006	15-Jun	3	T	15	-0.0007	0.0021	-0.0010	0.0020	-0.0009	0.0002

year	date	rep	trt	depth	Cd2265	Cd2288	Cd2288	Co2286	Co2286	Cr2677
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	15-Jun	1	C	30	-0.0007	0.0025	-0.0011	0.0049	-0.0022	0.0008
2006	15-Jun	2	C	30	-0.0001	0.0000	0.0000	0.0033	-0.0015	0.0002
2006	15-Jun	3	C	30	-0.0005	0.0015	-0.0007	0.0048	-0.0022	0.0007
2006	15-Jun	1	T	30	-0.0006	0.0019	-0.0009	0.0018	-0.0009	0.0007
2006	15-Jun	2	T	30	-0.0006	0.0011	-0.0005	0.0042	-0.0020	0.0010
2006	15-Jun	3	T	30	-0.0004	0.0010	-0.0005	0.0063	-0.0030	0.0009
2006	15-Jun	1	C	60	-0.0005	0.0026	-0.0012	0.0046	-0.0021	0.0009
2006	15-Jun	2	C	60	-0.0004	0.0010	-0.0005	0.0000	0.0000	0.0000
2006	15-Jun	3	C	60	-0.0006	0.0012	-0.0005	0.0011	-0.0005	0.0000
2006	15-Jun	1	T	60	0.0000	0.0000	0.0000	0.0028	-0.0013	0.0020
2006	15-Jun	2	T	60	-0.0007	0.0024	-0.0012	0.0046	-0.0022	0.0000
2006	15-Jun	3	T	60	-0.0004	0.0011	-0.0005	0.0007	-0.0003	0.0000
2006	15-Jun	1	C	120	-0.0004	0.0006	-0.0003	0.0030	-0.0014	0.0019
2006	15-Jun	2	C	120	-0.0005	0.0018	-0.0008	0.0019	-0.0009	0.0007
2006	15-Jun	3	C	120	-0.0003	0.0029	-0.0013	0.0019	-0.0009	0.0007
2006	15-Jun	1	T	120	-0.0006	0.0015	-0.0007	0.0004	-0.0002	0.0000
2006	15-Jun	2	T	120	-0.0007	0.0027	-0.0014	0.0070	-0.0035	0.0004
2006	15-Jun	3	T	120	-0.0008	0.0025	-0.0013	0.0000	0.0000	0.0000
2006	15-Jun	1	C	200	-0.0004	0.0025	-0.0012	0.0000	0.0000	0.0000
2006	15-Jun	2	C	200	-0.0006	0.0018	-0.0009	0.0000	0.0000	0.0000
2006	15-Jun	3	C	200	-0.0003	0.0010	-0.0005	0.0019	-0.0009	0.0005
2006	15-Jun	1	T	200	0.0000	0.0007	-0.0003	0.0040	-0.0018	0.0034
2006	15-Jun	2	T	200	-0.0001	0.0018	-0.0008	0.0009	-0.0004	0.0002
2006	15-Jun	3	T	200	-0.0004	0.0010	-0.0005	0.0010	-0.0005	0.0000
2006	22-Jun	1	C	15	-0.0004	0.0023	-0.0010	0.0017	-0.0008	0.0008
2006	22-Jun	2	C	15	-0.0004	0.0025	-0.0011	0.0009	-0.0004	0.0010
2006	22-Jun	3	C	15	-0.0003	0.0023	-0.0010	0.0029	-0.0013	0.0009
2006	22-Jun	1	T	15	-0.0006	0.0014	-0.0006	0.0022	-0.0010	0.0001
2006	22-Jun	2	T	15	-0.0004	0.0009	-0.0004	0.0019	-0.0008	0.0000
2006	22-Jun	3	T	15	-0.0003	0.0019	-0.0008	0.0014	-0.0006	0.0000
2006	22-Jun	1	C	30	-0.0004	0.0025	-0.0010	0.0040	-0.0016	0.0005
2006	22-Jun	2	C	30	-0.0002	0.0011	-0.0004	0.0009	-0.0004	0.0000
2006	22-Jun	3	C	30	-0.0003	0.0020	-0.0008	0.0029	-0.0012	0.0007
2006	22-Jun	1	T	30	-0.0004	0.0013	-0.0005	0.0030	-0.0012	0.0009
2006	22-Jun	2	T	30	-0.0005	0.0007	-0.0003	0.0031	-0.0013	0.0000
2006	22-Jun	3	T	30	-0.0006	0.0010	-0.0004	0.0083	-0.0034	0.0013
2006	22-Jun	1	C	60	-0.0002	0.0015	-0.0005	0.0040	-0.0014	0.0003
2006	22-Jun	2	C	60	-0.0005	0.0024	-0.0008	0.0026	-0.0009	0.0020
2006	22-Jun	3	C	60	-0.0003	0.0012	-0.0004	0.0026	-0.0009	0.0004
2006	22-Jun	1	T	60	-0.0002	0.0011	-0.0004	0.0016	-0.0006	0.0000
2006	22-Jun	2	T	60	-0.0005	0.0020	-0.0007	0.0045	-0.0016	0.0016
2006	22-Jun	3	T	60	-0.0004	0.0015	-0.0006	0.0043	-0.0015	0.0022
2006	22-Jun	1	C	120	-0.0001	0.0015	-0.0005	0.0023	-0.0008	0.0000
2006	22-Jun	2	C	120	-0.0001	0.0011	-0.0004	0.0005	-0.0002	0.0000
2006	22-Jun	3	C	120	-0.0003	0.0017	-0.0006	0.0021	-0.0007	0.0009
2006	22-Jun	1	T	120	-0.0005	0.0015	-0.0006	0.0011	-0.0004	0.0009

year	date	rep	trt	depth	Cd2265	Cd2288	Cd2288	Co2286	Co2286	Cr2677
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	22-Jun	2	T	120	-0.0004	0.0021	-0.0008	0.0062	-0.0023	0.0000
2006	22-Jun	3	T	120	-0.0004	0.0020	-0.0007	0.0008	-0.0003	0.0000
2006	22-Jun	1	C	200	0.0000	0.0006	-0.0003	0.0023	-0.0009	0.0015
2006	22-Jun	2	C	200	0.0000	0.0002	-0.0001	0.0013	-0.0005	0.0009
2006	22-Jun	3	C	200	-0.0003	0.0024	-0.0010	0.0000	0.0000	0.0007
2006	22-Jun	1	T	200	-0.0001	0.0011	-0.0005	0.0033	-0.0015	0.0025
2006	22-Jun	2	T	200	-0.0004	0.0019	-0.0009	0.0004	-0.0002	0.0000
2006	22-Jun	3	T	200	-0.0005	0.0000	0.0000	0.0018	-0.0008	0.0006
2006	29-Jun	1	C	15	-0.0001	0.0005	-0.0004	0.0000	0.0000	0.0000
2006	29-Jun	2	C	15	-0.0008	0.0007	-0.0006	0.0028	-0.0025	0.0008
2006	29-Jun	3	C	15	-0.0010	0.0014	-0.0013	0.0024	-0.0021	0.0013
2006	29-Jun	1	T	15	0.0000	0.0002	-0.0001	0.0012	-0.0011	0.0006
2006	29-Jun	2	T	15	-0.0006	0.0011	-0.0010	0.0012	-0.0011	0.0005
2006	29-Jun	3	T	15	-0.0009	0.0017	-0.0016	0.0018	-0.0016	0.0008
2006	29-Jun	1	C	30	-0.0011	0.0019	-0.0017	0.0053	-0.0047	0.0014
2006	29-Jun	2	C	30	-0.0007	0.0015	-0.0013	0.0028	-0.0025	0.0010
2006	29-Jun	3	C	30	-0.0007	0.0012	-0.0011	0.0042	-0.0037	0.0018
2006	29-Jun	1	T	30	-0.0006	0.0013	-0.0013	0.0014	-0.0013	0.0009
2006	29-Jun	2	T	30	-0.0013	0.0011	-0.0010	0.0039	-0.0036	0.0000
2006	29-Jun	3	T	30	-0.0009	0.0022	-0.0020	0.0078	-0.0073	0.0016
2006	29-Jun	1	C	60	-0.0016	0.0015	-0.0014	0.0057	-0.0051	0.0018
2006	29-Jun	2	C	60	-0.0005	0.0013	-0.0012	0.0018	-0.0016	0.0006
2006	29-Jun	3	C	60	-0.0008	0.0011	-0.0010	0.0014	-0.0013	0.0013
2006	29-Jun	1	T	60	-0.0010	0.0013	-0.0012	0.0014	-0.0012	0.0000
2006	29-Jun	2	T	60	-0.0016	0.0028	-0.0025	0.0091	-0.0083	0.0056
2006	29-Jun	3	T	60	-0.0016	0.0024	-0.0022	0.0013	-0.0012	0.0000
2006	29-Jun	1	C	120	-0.0004	0.0009	-0.0007	0.0021	-0.0018	0.0000
2006	29-Jun	2	C	120	-0.0009	0.0014	-0.0012	0.0017	-0.0015	0.0010
2006	29-Jun	3	C	120	0.0000	0.0000	0.0000	0.0037	-0.0032	0.0017
2006	29-Jun	1	T	120	0.0000	0.0000	0.0000	0.0033	-0.0027	0.0024
2006	29-Jun	2	T	120	-0.0006	0.0004	-0.0003	0.0078	-0.0064	0.0013
2006	29-Jun	3	T	120	-0.0005	0.0007	-0.0006	0.0007	-0.0006	0.0000
2006	29-Jun	1	C	200	-0.0008	0.0011	-0.0009	0.0008	-0.0007	0.0005
2006	29-Jun	2	C	200	-0.0002	0.0015	-0.0012	0.0002	-0.0002	0.0005
2006	29-Jun	3	C	200	-0.0010	0.0000	0.0000	0.0000	0.0000	0.0000
2006	29-Jun	1	T	200	0.0000	0.0000	0.0000	0.0026	-0.0017	0.0015
2006	29-Jun	2	T	200	-0.0001	0.0013	-0.0009	0.0015	-0.0010	0.0005
2006	29-Jun	3	T	200	-0.0006	0.0008	-0.0005	0.0014	-0.0009	0.0000
2006	5-Jul	1	C	15	-0.0001	0.0004	-0.0002	0.0018	-0.0010	0.0011
2006	5-Jul	2	C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	5-Jul	3	C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	5-Jul	1	T	15	-0.0001	0.0006	-0.0004	0.0005	-0.0003	0.0000
2006	5-Jul	2	T	15	0.0000	0.0007	-0.0004	0.0008	-0.0005	0.0000
2006	5-Jul	3	T	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	5-Jul	1	C	30	0.0000	0.0000	0.0000	0.0006	-0.0003	0.0000
2006	5-Jul	2	C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

year	date	rep	trt	depth	Cd2265	Cd2288	Cd2288	Co2286	Co2286	Cr2677
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	5-Jul	3	C	30	0.0000	0.0000	0.0000	0.0043	-0.0024	0.0027
2006	5-Jul	1	T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	5-Jul	2	T	30	0.0000	0.0000	0.0000	0.0012	-0.0007	0.0000
2006	5-Jul	3	T	30	0.0000	0.0000	0.0000	0.0004	-0.0002	0.0000
2006	5-Jul	1	C	60	0.0000	0.0000	0.0000	0.0011	-0.0006	0.0000
2006	5-Jul	2	C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	5-Jul	3	C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	5-Jul	1	T	60	0.0000	0.0011	-0.0006	0.0008	-0.0004	0.0006
2006	5-Jul	2	T	60	0.0000	0.0000	0.0000	0.0144	-0.0078	0.0098
2006	5-Jul	3	T	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	5-Jul	1	C	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	5-Jul	2	C	120	-0.0002	0.0009	-0.0004	0.0020	-0.0009	0.0005
2006	5-Jul	3	C	120	-0.0008	0.0024	-0.0011	0.0003	-0.0002	0.0000
2006	5-Jul	1	T	120	-0.0003	0.0014	-0.0007	0.0007	-0.0003	0.0000
2006	5-Jul	2	T	120	0.0000	0.0007	-0.0003	0.0031	-0.0015	0.0000
2006	5-Jul	3	T	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	5-Jul	1	C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	5-Jul	2	C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	5-Jul	3	C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	5-Jul	1	T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	5-Jul	2	T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	5-Jul	3	T	200	0.0000	0.0000	0.0000	0.0015	-0.0007	0.0020
2006	13-Jul	1	C	15						
2006	13-Jul	2	C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	13-Jul	3	C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	13-Jul	1	T	15	0.0000	0.0012	-0.0015	0.0000	0.0000	0.0005
2006	13-Jul	2	T	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	13-Jul	3	T	15	-0.0007	0.0000	0.0000	0.0000	0.0000	0.0000
2006	13-Jul	1	C	30	0.0000	0.0000	0.0000	0.0012	-0.0014	0.0000
2006	13-Jul	2	C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	13-Jul	3	C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	13-Jul	1	T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	13-Jul	2	T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	13-Jul	3	T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	13-Jul	1	C	60	0.0000	0.0000	0.0000	0.0032	-0.0037	0.0000
2006	13-Jul	2	C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	13-Jul	3	C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	13-Jul	1	T	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	13-Jul	2	T	60	0.0000	0.0000	0.0000	0.0034	-0.0038	0.0000
2006	13-Jul	3	T	60	0.0000	0.0000	0.0000	0.0010	-0.0011	0.0000
2006	13-Jul	1	C	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	13-Jul	2	C	120	0.0000	0.0000	0.0000	0.0021	-0.0022	0.0020
2006	13-Jul	3	C	120	-0.0003	0.0008	-0.0009	0.0018	-0.0019	0.0001
2006	13-Jul	1	T	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	13-Jul	2	T	120	0.0000	0.0000	0.0000	0.0043	-0.0043	0.0000
2006	13-Jul	3	T	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

year	date	rep	trt	depth	Cd2265	Cd2288	Cd2288	Co2286	Co2286	Cr2677
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	13-Jul	1	C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	13-Jul	2	C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	13-Jul	3	C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	13-Jul	1	T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	13-Jul	2	T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	13-Jul	3	T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	20-Jul	1	C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	20-Jul	2	C	15						
2006	20-Jul	3	C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	20-Jul	1	T	15	0.0000	0.0005	-0.0002	0.0007	-0.0003	0.0003
2006	20-Jul	2	T	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	20-Jul	3	T	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	20-Jul	1	C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	20-Jul	2	C	30	0.0000	0.0003	-0.0001	0.0011	-0.0004	0.0008
2006	20-Jul	3	C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	20-Jul	1	T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	20-Jul	2	T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	20-Jul	3	T	30	-0.0003	0.0033	-0.0014	0.0014	-0.0006	0.0000
2006	20-Jul	1	C	60	0.0000	0.0000	0.0000	0.0015	-0.0007	0.0000
2006	20-Jul	2	C	60	0.0000	0.0000	0.0000	0.0010	-0.0004	0.0000
2006	20-Jul	3	C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	20-Jul	1	T	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	20-Jul	2	T	60	0.0000	0.0000	0.0000	0.0071	-0.0033	0.0024
2006	20-Jul	3	T	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	20-Jul	1	C	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	20-Jul	2	C	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	20-Jul	3	C	120	0.0000	0.0008	-0.0004	0.0011	-0.0005	0.0005
2006	20-Jul	1	T	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	20-Jul	2	T	120	0.0000	0.0000	0.0000	0.0050	-0.0027	0.0000
2006	20-Jul	3	T	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	20-Jul	1	C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	20-Jul	2	C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	20-Jul	3	C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	20-Jul	1	T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	20-Jul	2	T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	20-Jul	3	T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	26-Jul	1	C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	26-Jul	2	C	15						
2006	26-Jul	3	C	15	0.0000	0.0000	0.0000	0.0033	-0.0026	0.0036
2006	26-Jul	1	T	15	-0.0001	0.0001	-0.0001	0.0016	-0.0012	0.0009
2006	26-Jul	2	T	15	-0.0001	0.0018	-0.0014	0.0001	-0.0001	0.0007
2006	26-Jul	3	T	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	26-Jul	1	C	30	-0.0007	0.0009	-0.0007	0.0000	0.0000	0.0000
2006	26-Jul	2	C	30	0.0000	0.0000	0.0000	0.0034	-0.0025	0.0035
2006	26-Jul	3	C	30	0.0000	0.0000	0.0000	0.0038	-0.0028	0.0018
2006	26-Jul	1	T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

year	date	rep	trt	depth	Cd2265	Cd2288	Cd2288	Co2286	Co2286	Cr2677
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	26-Jul	2	T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	26-Jul	3	T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	26-Jul	1	C	60	-0.0001	0.0000	0.0000	0.0038	-0.0024	0.0000
2006	26-Jul	2	C	60	0.0000	0.0000	0.0000	0.0056	-0.0036	0.0036
2006	26-Jul	3	C	60	0.0000	0.0000	0.0000	0.0042	-0.0027	0.0024
2006	26-Jul	1	T	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	26-Jul	2	T	60	0.0000	0.0000	0.0000	0.0085	-0.0052	0.0043
2006	26-Jul	3	T	60	0.0000	0.0000	0.0000	0.0021	-0.0013	0.0000
2006	26-Jul	1	C	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	26-Jul	2	C	120	0.0000	0.0000	0.0000	0.0050	-0.0024	0.0035
2006	26-Jul	3	C	120	0.0000	0.0000	0.0000	0.0046	-0.0022	0.0032
2006	26-Jul	1	T	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	26-Jul	2	T	120	0.0000	0.0000	0.0000	0.0034	-0.0015	0.0000
2006	26-Jul	3	T	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	26-Jul	1	C	200	0.0000	0.0000	0.0000	0.0020	-0.0008	0.0013
2006	26-Jul	2	C	200	0.0000	0.0000	0.0000	0.0027	-0.0010	0.0025
2006	26-Jul	3	C	200	0.0000	0.0000	0.0000	0.0045	-0.0017	0.0052
2006	26-Jul	1	T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	26-Jul	2	T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	26-Jul	3	T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	3-Aug	1	C	15	0.0000	0.0000	0.0000	0.0039	-0.0006	0.0026
2006	3-Aug	2	C	15	-0.0001	0.0012	-0.0002	0.0017	-0.0003	0.0006
2006	3-Aug	3	C	15	0.0000	0.0000	0.0000	0.0034	-0.0005	0.0028
2006	3-Aug	1	T	15	0.0000	0.0020	-0.0003	0.0006	-0.0001	0.0007
2006	3-Aug	2	T	15	0.0000	0.0000	0.0000	0.0046	-0.0007	0.0030
2006	3-Aug	3	T	15	0.0000	0.0000	0.0000	0.0034	-0.0005	0.0025
2006	3-Aug	1	C	30	0.0000	0.0000	0.0000	0.0035	-0.0005	0.0026
2006	3-Aug	2	C	30	0.0000	0.0000	0.0000	0.0038	-0.0005	0.0036
2006	3-Aug	3	C	30	0.0000	0.0000	0.0000	0.0040	-0.0006	0.0022
2006	3-Aug	1	T	30	0.0000	0.0000	0.0000	0.0042	-0.0006	0.0019
2006	3-Aug	2	T	30	0.0000	0.0000	0.0000	0.0083	-0.0013	0.0048
2006	3-Aug	3	T	30	0.0000	0.0010	-0.0002	0.0008	-0.0001	0.0000
2006	3-Aug	1	C	60	0.0000	0.0000	0.0000	0.0086	-0.0012	0.0024
2006	3-Aug	2	C	60	0.0000	0.0000	0.0000	0.0043	-0.0006	0.0027
2006	3-Aug	3	C	60	0.0000	0.0000	0.0000	0.0033	-0.0005	0.0024
2006	3-Aug	1	T	60	0.0000	0.0005	-0.0001	0.0000	0.0000	0.0000
2006	3-Aug	2	T	60	0.0000	0.0000	0.0000	0.0072	-0.0013	0.0023
2006	3-Aug	3	T	60	0.0000	0.0000	0.0000	0.0068	-0.0012	0.0027
2006	3-Aug	1	C	120	0.0000	0.0000	0.0000	0.0047	-0.0011	0.0026
2006	3-Aug	2	C	120	0.0000	0.0000	0.0000	0.0036	-0.0008	0.0020
2006	3-Aug	3	C	120	-0.0001	0.0002	0.0000	0.0023	-0.0005	0.0002
2006	3-Aug	1	T	120	0.0000	0.0000	0.0000	0.0035	-0.0011	0.0034
2006	3-Aug	2	T	120	0.0000	0.0000	0.0000	0.0083	-0.0026	0.0019
2006	3-Aug	3	T	120	0.0000	0.0000	0.0000	0.0018	-0.0006	0.0019
2006	3-Aug	1	C	200	0.0000	0.0000	0.0000	0.0045	-0.0019	0.0040
2006	3-Aug	2	C	200	0.0000	0.0000	0.0000	0.0036	-0.0015	0.0032

year	date	rep	trt	depth	Cd2265	Cd2288	Cd2288	Co2286	Co2286	Cr2677
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	3-Aug	3	C	200	0.0000	0.0000	0.0000	0.0032	-0.0013	0.0027
2006	3-Aug	1	T	200	0.0000	0.0000	0.0000	0.0025	-0.0013	0.0022
2006	3-Aug	2	T	200	0.0000	0.0000	0.0000	0.0028	-0.0015	0.0020
2006	3-Aug	3	T	200	0.0000	0.0000	0.0000	0.0036	-0.0019	0.0027
2006	10-Aug	1	C	15	0.0000	0.0000	0.0000	0.0054	-0.0009	0.0049
2006	10-Aug	2	C	15	0.0000	0.0000	0.0000	0.0037	-0.0006	0.0036
2006	10-Aug	3	C	15	-0.0002	0.0018	-0.0003	0.0010	-0.0002	0.0021
2006	10-Aug	1	T	15	0.0000	0.0000	0.0000	0.0029	-0.0005	0.0028
2006	10-Aug	2	T	15	0.0000	0.0000	0.0000	0.0034	-0.0006	0.0032
2006	10-Aug	3	T	15	0.0000	0.0000	0.0000	0.0034	-0.0006	0.0022
2006	10-Aug	1	C	30	0.0000	0.0000	0.0000	0.0027	-0.0004	0.0032
2006	10-Aug	2	C	30	0.0000	0.0000	0.0000	0.0002	0.0000	0.0000
2006	10-Aug	3	C	30	0.0000	0.0011	-0.0002	0.0020	-0.0003	0.0008
2006	10-Aug	1	T	30	0.0000	0.0000	0.0000	0.0039	-0.0006	0.0042
2006	10-Aug	2	T	30	0.0000	0.0000	0.0000	0.0030	-0.0005	0.0024
2006	10-Aug	3	T	30	0.0000	0.0000	0.0000	0.0045	-0.0007	0.0036
2006	10-Aug	1	C	60	0.0000	0.0000	0.0000	0.0086	-0.0009	0.0028
2006	10-Aug	2	C	60	0.0000	0.0000	0.0000	0.0051	-0.0005	0.0035
2006	10-Aug	3	C	60	-0.0001	0.0028	-0.0003	0.0025	-0.0003	0.0020
2006	10-Aug	1	T	60	0.0000	0.0000	0.0000	0.0039	-0.0004	0.0022
2006	10-Aug	2	T	60	0.0000	0.0000	0.0000	0.0070	-0.0008	0.0019
2006	10-Aug	3	T	60	0.0000	0.0000	0.0000	0.0075	-0.0008	0.0039
2006	10-Aug	1	C	120	0.0000	0.0000	0.0000	0.0048	-0.0003	0.0027
2006	10-Aug	2	C	120	0.0000	0.0005	0.0000	0.0043	-0.0003	0.0053
2006	10-Aug	3	C	120	-0.0001	0.0017	-0.0001	0.0013	-0.0001	0.0012
2006	10-Aug	1	T	120	0.0000	0.0000	0.0000	0.0062	-0.0006	0.0054
2006	10-Aug	2	T	120	0.0000	0.0000	0.0000	0.0091	-0.0009	0.0031
2006	10-Aug	3	T	120	0.0000	0.0000	0.0000	0.0036	-0.0003	0.0032
2006	10-Aug	1	C	200	0.0000	0.0000	0.0000	0.0030	-0.0004	0.0026
2006	10-Aug	2	C	200	-0.0002	0.0029	-0.0004	0.0023	-0.0003	0.0033
2006	10-Aug	3	C	200	-0.0002	0.0022	-0.0003	0.0057	-0.0008	0.0080
2006	10-Aug	1	T	200	0.0000	0.0000	0.0000	0.0045	-0.0009	0.0038
2006	10-Aug	2	T	200	0.0000	0.0000	0.0000	0.0033	-0.0006	0.0037
2006	10-Aug	3	T	200	0.0000	0.0000	0.0000	0.0033	-0.0006	0.0027
2006	17-Aug	1	C	15	-0.0011	0.0023	-0.0018	0.0007	-0.0006	0.0022
2006	17-Aug	2	C	15	0.0000	0.0013	-0.0010	0.0000	0.0000	0.0002
2006	17-Aug	3	C	15	-0.0018	0.0016	-0.0013	0.0027	-0.0021	0.0022
2006	17-Aug	1	T	15	-0.0015	0.0012	-0.0009	0.0040	-0.0031	0.0036
2006	17-Aug	2	T	15	-0.0010	0.0016	-0.0013	0.0026	-0.0021	0.0037
2006	17-Aug	3	T	15	-0.0016	0.0017	-0.0014	0.0038	-0.0030	0.0037
2006	17-Aug	1	C	30	-0.0013	0.0020	-0.0015	0.0041	-0.0030	0.0030
2006	17-Aug	2	C	30	-0.0012	0.0025	-0.0018	0.0015	-0.0011	0.0035
2006	17-Aug	3	C	30	-0.0012	0.0012	-0.0008	0.0038	-0.0027	0.0035
2006	17-Aug	1	T	30	-0.0008	0.0027	-0.0018	0.0017	-0.0011	0.0037
2006	17-Aug	2	T	30	-0.0003	0.0000	0.0000	0.0083	-0.0056	0.0074
2006	17-Aug	3	T	30	-0.0009	0.0019	-0.0013	0.0024	-0.0016	0.0027

year	date	rep	trt	depth	Cd2265	Cd2288	Cd2288	Co2286	Co2286	Cr2677
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	17-Aug	1	C	60	-0.0011	0.0027	-0.0015	0.0064	-0.0036	0.0031
2006	17-Aug	2	C	60	-0.0006	0.0020	-0.0011	0.0023	-0.0013	0.0025
2006	17-Aug	3	C	60	-0.0011	0.0026	-0.0015	0.0023	-0.0013	0.0018
2006	17-Aug	1	T	60	-0.0010	0.0023	-0.0011	0.0036	-0.0018	0.0041
2006	17-Aug	2	T	60	-0.0010	0.0028	-0.0014	0.0077	-0.0038	0.0033
2006	17-Aug	3	T	60	-0.0010	0.0021	-0.0010	0.0047	-0.0023	0.0026
2006	17-Aug	1	C	120	-0.0003	0.0019	-0.0005	0.0023	-0.0006	0.0017
2006	17-Aug	2	C	120	-0.0004	0.0014	-0.0004	0.0037	-0.0009	0.0031
2006	17-Aug	3	C	120	-0.0002	0.0013	-0.0003	0.0014	-0.0003	0.0004
2006	17-Aug	1	T	120	-0.0002	0.0026	-0.0004	0.0025	-0.0004	0.0020
2006	17-Aug	2	T	120	-0.0003	0.0035	-0.0005	0.0072	-0.0010	0.0034
2006	17-Aug	3	T	120	-0.0001	0.0025	-0.0004	0.0007	-0.0001	0.0010
2006	17-Aug	1	C	200	0.0000	0.0000	0.0000	0.0069	-0.0007	0.0067
2006	17-Aug	2	C	200	-0.0001	0.0017	-0.0002	0.0050	-0.0005	0.0056
2006	17-Aug	3	C	200	-0.0002	0.0027	-0.0003	0.0026	-0.0003	0.0025
2006	17-Aug	1	T	200	0.0000	0.0000	0.0000	0.0049	-0.0006	0.0057
2006	17-Aug	2	T	200	0.0000	0.0006	-0.0001	0.0012	-0.0002	0.0006
2006	17-Aug	3	T	200	-0.0002	0.0027	-0.0003	0.0021	-0.0003	0.0024
2006	24-Aug	1	C	15	-0.0010	0.0022	-0.0013	0.0028	-0.0016	0.0034
2006	24-Aug	2	C	15	-0.0003	0.0011	-0.0007	0.0000	0.0000	0.0006
2006	24-Aug	3	C	15	-0.0008	0.0019	-0.0011	0.0024	-0.0014	0.0022
2006	24-Aug	1	T	15	-0.0010	0.0024	-0.0014	0.0032	-0.0019	0.0042
2006	24-Aug	2	T	15	-0.0009	0.0021	-0.0013	0.0025	-0.0015	0.0026
2006	24-Aug	3	T	15	-0.0014	0.0026	-0.0015	0.0025	-0.0014	0.0024
2006	24-Aug	1	C	30	-0.0016	0.0026	-0.0015	0.0071	-0.0040	0.0058
2006	24-Aug	2	C	30	-0.0008	0.0024	-0.0014	0.0016	-0.0009	0.0015
2006	24-Aug	3	C	30	-0.0007	0.0010	-0.0006	0.0053	-0.0030	0.0043
2006	24-Aug	1	T	30	-0.0007	0.0023	-0.0013	0.0021	-0.0012	0.0021
2006	24-Aug	2	T	30	-0.0007	0.0017	-0.0010	0.0016	-0.0009	0.0019
2006	24-Aug	3	T	30	-0.0007	0.0013	-0.0008	0.0109	-0.0062	0.0024
2006	24-Aug	1	C	60	-0.0012	0.0027	-0.0015	0.0078	-0.0043	0.0039
2006	24-Aug	2	C	60	-0.0008	0.0021	-0.0012	0.0041	-0.0023	0.0033
2006	24-Aug	3	C	60	-0.0007	0.0010	-0.0006	0.0029	-0.0016	0.0026
2006	24-Aug	1	T	60	-0.0012	0.0023	-0.0012	0.0002	-0.0001	0.0000
2006	24-Aug	2	T	60	-0.0011	0.0022	-0.0012	0.0068	-0.0037	0.0042
2006	24-Aug	3	T	60	-0.0009	0.0033	-0.0018	0.0063	-0.0035	0.0024
2006	24-Aug	1	C	120	-0.0011	0.0018	-0.0009	0.0031	-0.0016	0.0033
2006	24-Aug	2	C	120	-0.0008	0.0032	-0.0016	0.0035	-0.0018	0.0033
2006	24-Aug	3	C	120	-0.0008	0.0024	-0.0012	0.0031	-0.0016	0.0033
2006	24-Aug	1	T	120	-0.0001	0.0001	0.0000	0.0011	-0.0006	0.0007
2006	24-Aug	2	T	120	-0.0009	0.0017	-0.0009	0.0080	-0.0041	0.0030
2006	24-Aug	3	T	120	-0.0003	0.0013	-0.0006	0.0026	-0.0014	0.0029
2006	24-Aug	1	C	200	-0.0008	0.0018	-0.0008	0.0028	-0.0013	0.0036
2006	24-Aug	2	C	200	-0.0007	0.0021	-0.0010	0.0024	-0.0011	0.0032
2006	24-Aug	3	C	200	-0.0010	0.0026	-0.0012	0.0045	-0.0021	0.0039
2006	24-Aug	1	T	200	-0.0001	0.0005	-0.0002	0.0003	-0.0001	0.0007

year	date	rep	trt	depth	Cd2265	Cd2288	Cd2288	Co2286	Co2286	Cr2677
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	24-Aug	2	T	200	0.0000	0.0008	-0.0003	0.0015	-0.0006	0.0005
2006	24-Aug	3	T	200	-0.0005	0.0023	-0.0008	0.0023	-0.0008	0.0036
2006	31-Aug	1	C	15	-0.0005	0.0021	-0.0010	0.0032	-0.0014	0.0037
2006	31-Aug	2	C	15						
2006	31-Aug	3	C	15	-0.0005	0.0016	-0.0007	0.0046	-0.0021	0.0043
2006	31-Aug	1	T	15	-0.0009	0.0021	-0.0010	0.0029	-0.0014	0.0033
2006	31-Aug	2	T	15	-0.0008	0.0017	-0.0008	0.0018	-0.0009	0.0034
2006	31-Aug	3	T	15	-0.0009	0.0008	-0.0004	0.0030	-0.0015	0.0036
2006	31-Aug	1	C	30	-0.0009	0.0033	-0.0017	0.0029	-0.0015	0.0033
2006	31-Aug	2	C	30	-0.0005	0.0010	-0.0005	0.0015	-0.0008	0.0022
2006	31-Aug	3	C	30	-0.0003	0.0000	0.0000	0.0069	-0.0036	0.0069
2006	31-Aug	1	T	30	-0.0007	0.0021	-0.0012	0.0025	-0.0014	0.0028
2006	31-Aug	2	T	30	-0.0009	0.0031	-0.0018	0.0024	-0.0013	0.0024
2006	31-Aug	3	T	30						
2006	31-Aug	1	C	60	-0.0007	0.0007	-0.0004	0.0027	-0.0017	0.0014
2006	31-Aug	2	C	60	-0.0007	0.0015	-0.0010	0.0025	-0.0016	0.0047
2006	31-Aug	3	C	60	-0.0008	0.0011	-0.0007	0.0050	-0.0032	0.0059
2006	31-Aug	1	T	60	-0.0004	0.0017	-0.0012	0.0025	-0.0018	0.0032
2006	31-Aug	2	T	60	-0.0011	0.0030	-0.0021	0.0051	-0.0036	0.0016
2006	31-Aug	3	T	60	-0.0013	0.0025	-0.0018	0.0052	-0.0037	0.0034
2006	31-Aug	1	C	120	-0.0014	0.0023	-0.0018	0.0032	-0.0026	0.0046
2006	31-Aug	2	C	120	-0.0010	0.0016	-0.0012	0.0046	-0.0036	0.0032
2006	31-Aug	3	C	120	-0.0011	0.0026	-0.0021	0.0031	-0.0025	0.0022
2006	31-Aug	1	T	120	-0.0006	0.0023	-0.0019	0.0031	-0.0025	0.0039
2006	31-Aug	2	T	120	-0.0013	0.0018	-0.0015	0.0077	-0.0063	0.0036
2006	31-Aug	3	T	120	0.0000	0.0000	0.0000	0.0063	-0.0052	0.0072
2006	31-Aug	1	C	200	0.0000	0.0000	0.0000	0.0034	-0.0027	0.0040
2006	31-Aug	2	C	200	-0.0008	0.0014	-0.0011	0.0023	-0.0018	0.0038
2006	31-Aug	3	C	200	-0.0004	0.0016	-0.0013	0.0033	-0.0026	0.0048
2006	31-Aug	1	T	200	-0.0005	0.0000	0.0000	0.0032	-0.0024	0.0041
2006	31-Aug	2	T	200	-0.0001	0.0014	-0.0010	0.0005	-0.0004	0.0000
2006	31-Aug	3	T	200	-0.0006	0.0011	-0.0008	0.0005	-0.0004	0.0017
2006	7-Sep	1	C	15	0.0000	0.0008	0.0000	0.0167	-0.0003	0.0172
2006	7-Sep	2	C	15	0.0000	0.0007	0.0000	0.0002	0.0000	0.0009
2006	7-Sep	3	C	15	0.0000	0.0031	-0.0001	0.0154	-0.0003	0.0149
2006	7-Sep	1	T	15	0.0000	0.0009	0.0000	0.0041	-0.0001	0.0028
2006	7-Sep	2	T	15	0.0000	0.0013	0.0000	0.0030	-0.0001	0.0036
2006	7-Sep	3	T	15	0.0000	0.0022	0.0000	0.0173	-0.0004	0.0162
2006	7-Sep	1	C	30	0.0000	0.0008	0.0000	0.0223	-0.0006	0.0223
2006	7-Sep	2	C	30	0.0000	0.0000	0.0000	0.0208	-0.0006	0.0215
2006	7-Sep	3	C	30	0.0000	0.0012	0.0000	0.0217	-0.0006	0.0188
2006	7-Sep	1	T	30	0.0000	0.0016	-0.0001	0.0036	-0.0001	0.0028
2006	7-Sep	2	T	30	0.0000	0.0012	0.0000	0.0039	-0.0001	0.0041
2006	7-Sep	3	T	30	0.0000	0.0017	-0.0001	0.0207	-0.0008	0.0193
2006	7-Sep	1	C	60	-0.0001	0.0019	-0.0001	0.0224	-0.0011	0.0195
2006	7-Sep	2	C	60	-0.0001	0.0006	0.0000	0.0184	-0.0009	0.0198

year	date	rep	trt	depth	Cd2265	Cd2288	Cd2288	Co2286	Co2286	Cr2677
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	7-Sep	3	C	60	0.0000	0.0006	0.0000	0.0186	-0.0009	0.0184
2006	7-Sep	1	T	60	-0.0001	0.0015	-0.0001	0.0035	-0.0002	0.0039
2006	7-Sep	2	T	60	-0.0001	0.0013	-0.0001	0.0063	-0.0004	0.0045
2006	7-Sep	3	T	60	-0.0001	0.0011	-0.0001	0.0197	-0.0014	0.0182
2006	7-Sep	1	C	120	-0.0002	0.0008	-0.0001	0.0178	-0.0023	0.0165
2006	7-Sep	2	C	120	-0.0001	0.0010	-0.0001	0.0191	-0.0024	0.0178
2006	7-Sep	3	C	120	-0.0001	0.0015	-0.0002	0.0177	-0.0022	0.0176
2006	7-Sep	1	T	120	-0.0002	0.0023	-0.0004	0.0034	-0.0006	0.0027
2006	7-Sep	2	T	120	-0.0001	0.0000	0.0000	0.0250	-0.0046	0.0203
2006	7-Sep	3	T	120	0.0000	0.0000	0.0000	0.0215	-0.0040	0.0210
2006	7-Sep	1	C	200	-0.0002	0.0015	-0.0004	0.0164	-0.0040	0.0166
2006	7-Sep	2	C	200	-0.0003	0.0018	-0.0004	0.0176	-0.0043	0.0174
2006	7-Sep	3	C	200	-0.0001	0.0003	-0.0001	0.0208	-0.0051	0.0196
2006	7-Sep	1	T	200	0.0000	0.0000	0.0000	0.0071	-0.0024	0.0056
2006	7-Sep	2	T	200	-0.0002	0.0010	-0.0003	0.0183	-0.0062	0.0183
2006	7-Sep	3	T	200	-0.0005	0.0016	-0.0005	0.0161	-0.0055	0.0166
2006	14-Sep	1	C	15	0.0000	0.0000	0.0000	0.0222	-0.0014	0.0220
2006	14-Sep	2	C	15	-0.0001	0.0013	-0.0001	0.0190	-0.0012	0.0188
2006	14-Sep	3	C	15	-0.0001	0.0011	-0.0001	0.0188	-0.0011	0.0176
2006	14-Sep	1	T	15	-0.0001	0.0012	-0.0001	0.0197	-0.0012	0.0171
2006	14-Sep	2	T	15	0.0000	0.0009	-0.0001	0.0193	-0.0012	0.0188
2006	14-Sep	3	T	15	0.0000	0.0014	-0.0001	0.0188	-0.0011	0.0181
2006	14-Sep	1	C	30	-0.0001	0.0006	0.0000	0.0200	-0.0012	0.0208
2006	14-Sep	2	C	30	-0.0001	0.0012	-0.0001	0.0176	-0.0011	0.0172
2006	14-Sep	3	C	30	0.0000	0.0013	-0.0001	0.0203	-0.0012	0.0202
2006	14-Sep	1	T	30	0.0000	0.0016	-0.0001	0.0211	-0.0013	0.0193
2006	14-Sep	2	T	30	0.0000	0.0023	-0.0001	0.0184	-0.0012	0.0192
2006	14-Sep	3	T	30	-0.0001	0.0009	-0.0001	0.0189	-0.0012	0.0172
2006	14-Sep	1	C	60	-0.0001	0.0017	-0.0001	0.0210	-0.0013	0.0186
2006	14-Sep	2	C	60	-0.0001	0.0019	-0.0001	0.0135	-0.0008	0.0130
2006	14-Sep	3	C	60	0.0000	0.0000	0.0000	0.0222	-0.0014	0.0232
2006	14-Sep	1	T	60	0.0000	0.0010	-0.0001	0.0197	-0.0014	0.0200
2006	14-Sep	2	T	60	-0.0001	0.0023	-0.0002	0.0208	-0.0014	0.0180
2006	14-Sep	3	T	60	-0.0001	0.0020	-0.0001	0.0217	-0.0015	0.0196
2006	14-Sep	1	C	120	-0.0001	0.0025	-0.0002	0.0196	-0.0015	0.0180
2006	14-Sep	2	C	120	0.0000	0.0013	-0.0001	0.0205	-0.0016	0.0189
2006	14-Sep	3	C	120	0.0000	0.0008	-0.0001	0.0016	-0.0001	0.0000
2006	14-Sep	1	T	120	0.0000	0.0000	0.0000	0.0211	-0.0022	0.0211
2006	14-Sep	2	T	120	-0.0001	0.0020	-0.0002	0.0223	-0.0023	0.0177
2006	14-Sep	3	T	120	-0.0001	0.0010	-0.0001	0.0185	-0.0019	0.0174
2006	14-Sep	1	C	200	-0.0001	0.0002	0.0000	0.0189	-0.0025	0.0187
2006	14-Sep	2	C	200	-0.0001	0.0010	-0.0001	0.0197	-0.0026	0.0195
2006	14-Sep	3	C	200	-0.0001	0.0012	-0.0002	0.0195	-0.0026	0.0200
2006	14-Sep	1	T	200	0.0000	0.0000	0.0000	0.0201	-0.0036	0.0203
2006	14-Sep	2	T	200	-0.0002	0.0006	-0.0001	0.0186	-0.0033	0.0178
2006	14-Sep	3	T	200	-0.0001	0.0008	-0.0001	0.0182	-0.0032	0.0185

year	date	rep	trt	depth	Cd2265	Cd2288	Cd2288	Co2286	Co2286	Cr2677
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	21-Sep	1	C	15	-0.0001	0.0006	0.0000	0.0194	-0.0012	0.0181
2006	21-Sep	2	C	15	0.0000	0.0009	-0.0001	0.0024	-0.0002	0.0007
2006	21-Sep	3	C	15	-0.0001	0.0014	-0.0001	0.0217	-0.0014	0.0202
2006	21-Sep	1	T	15	-0.0002	0.0030	-0.0002	0.0228	-0.0015	0.0184
2006	21-Sep	2	T	15	-0.0001	0.0006	0.0000	0.0205	-0.0014	0.0200
2006	21-Sep	3	T	15	-0.0001	0.0000	0.0000	0.0259	-0.0017	0.0232
2006	21-Sep	1	C	30	0.0000	0.0000	0.0000	0.0187	-0.0014	0.0185
2006	21-Sep	2	C	30	0.0000	0.0010	-0.0001	0.0188	-0.0014	0.0192
2006	21-Sep	3	C	30	-0.0001	0.0000	0.0000	0.0218	-0.0017	0.0212
2006	21-Sep	1	T	30	-0.0001	0.0001	0.0000	0.0193	-0.0016	0.0184
2006	21-Sep	2	T	30	-0.0001	0.0013	-0.0001	0.0198	-0.0016	0.0203
2006	21-Sep	3	T	30	-0.0001	0.0008	-0.0001	0.0248	-0.0020	0.0197
2006	21-Sep	1	C	60	0.0000	0.0012	-0.0001	0.0230	-0.0021	0.0198
2006	21-Sep	2	C	60	-0.0001	0.0014	-0.0001	0.0193	-0.0018	0.0193
2006	21-Sep	3	C	60	-0.0001	0.0001	0.0000	0.0199	-0.0019	0.0199
2006	21-Sep	1	T	60	0.0000	0.0015	-0.0001	0.0198	-0.0020	0.0206
2006	21-Sep	2	T	60	-0.0001	0.0005	0.0000	0.0205	-0.0020	0.0188
2006	21-Sep	3	T	60	-0.0001	0.0002	0.0000	0.0226	-0.0022	0.0193
2006	21-Sep	1	C	120	0.0000	0.0012	-0.0001	0.0218	-0.0021	0.0199
2006	21-Sep	2	C	120	-0.0002	0.0017	-0.0002	0.0241	-0.0023	0.0241
2006	21-Sep	3	C	120	-0.0001	0.0009	-0.0001	0.0025	-0.0002	0.0023
2006	21-Sep	1	T	120	-0.0001	0.0001	0.0000	0.0193	-0.0019	0.0187
2006	21-Sep	2	T	120	-0.0001	0.0011	-0.0001	0.0242	-0.0024	0.0202
2006	21-Sep	3	T	120	-0.0001	0.0001	0.0000	0.0204	-0.0021	0.0191
2006	21-Sep	1	C	200	0.0000	0.0000	0.0000	0.0178	-0.0018	0.0191
2006	21-Sep	2	C	200	-0.0001	0.0007	-0.0001	0.0207	-0.0021	0.0207
2006	21-Sep	3	C	200	0.0000	0.0000	0.0000	0.0205	-0.0021	0.0211
2006	21-Sep	1	T	200	-0.0001	0.0005	-0.0001	0.0182	-0.0023	0.0183
2006	21-Sep	2	T	200	-0.0001	0.0002	0.0000	0.0189	-0.0024	0.0189
2006	21-Sep	3	T	200	-0.0001	0.0005	-0.0001	0.0139	-0.0018	0.0144
2006	28-Sep	1	C	15	-0.0001	0.0017	-0.0003	0.0050	-0.0009	0.0016
2006	28-Sep	2	C	15	-0.0004	0.0040	-0.0007	0.0044	-0.0008	0.0003
2006	28-Sep	3	C	15	-0.0003	0.0025	-0.0004	0.0017	-0.0003	0.0001
2006	28-Sep	1	T	15	-0.0003	0.0013	-0.0002	0.0218	-0.0039	0.0193
2006	28-Sep	2	T	15	-0.0002	0.0011	-0.0002	0.0209	-0.0037	0.0198
2006	28-Sep	3	T	15	-0.0001	0.0018	-0.0003	0.0063	-0.0011	0.0023
2006	28-Sep	1	C	30	0.0000	0.0014	-0.0002	0.0044	-0.0007	0.0020
2006	28-Sep	2	C	30	-0.0002	0.0024	-0.0004	0.0000	0.0000	0.0000
2006	28-Sep	3	C	30	-0.0002	0.0017	-0.0003	0.0022	-0.0004	0.0030
2006	28-Sep	1	T	30	-0.0001	0.0004	-0.0001	0.0210	-0.0031	0.0214
2006	28-Sep	2	T	30	0.0000	0.0017	-0.0003	0.0042	-0.0006	0.0024
2006	28-Sep	3	T	30	0.0000	0.0012	-0.0002	0.0057	-0.0008	0.0019
2006	28-Sep	1	C	60	-0.0003	0.0050	-0.0006	0.0047	-0.0006	0.0006
2006	28-Sep	2	C	60	-0.0002	0.0017	-0.0002	0.0000	0.0000	0.0000
2006	28-Sep	3	C	60	-0.0001	0.0016	-0.0002	0.0017	-0.0002	0.0019
2006	28-Sep	1	T	60	-0.0001	0.0007	-0.0001	0.0197	-0.0022	0.0203

year	date	rep	trt	depth	Cd2265	Cd2288	Cd2288	Co2286	Co2286	Cr2677
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	28-Sep	2	T	60	-0.0001	0.0024	-0.0003	0.0054	-0.0006	0.0027
2006	28-Sep	3	T	60	-0.0001	0.0012	-0.0001	0.0064	-0.0007	0.0023
2006	28-Sep	1	C	120	0.0000	0.0003	0.0000	0.0040	-0.0003	0.0041
2006	28-Sep	2	C	120	0.0000	0.0000	0.0000	0.0058	-0.0005	0.0046
2006	28-Sep	3	C	120	0.0000	0.0006	-0.0001	0.0022	-0.0002	0.0000
2006	28-Sep	1	T	120	-0.0001	0.0006	-0.0001	0.0207	-0.0019	0.0196
2006	28-Sep	2	T	120	0.0000	0.0011	-0.0001	0.0088	-0.0008	0.0025
2006	28-Sep	3	T	120	0.0000	0.0019	-0.0002	0.0035	-0.0003	0.0016
2006	28-Sep	1	C	200	0.0000	0.0000	0.0000	0.0053	-0.0005	0.0049
2006	28-Sep	2	C	200	-0.0001	0.0023	-0.0002	0.0020	-0.0002	0.0008
2006	28-Sep	3	C	200	-0.0002	0.0019	-0.0002	0.0002	0.0000	0.0008
2006	28-Sep	1	T	200	0.0000	0.0003	0.0000	0.0191	-0.0021	0.0200
2006	28-Sep	2	T	200	0.0000	0.0011	-0.0001	0.0024	-0.0003	0.0014
2006	28-Sep	3	T	200	0.0000	0.0013	-0.0002	0.0038	-0.0004	0.0021
2006	5-Oct	1	C	15	-0.0004	0.0024	-0.0008	0.0017	-0.0006	0.0019
2006	5-Oct	2	C	15	-0.0006	0.0015	-0.0005	0.0017	-0.0006	0.0002
2006	5-Oct	3	C	15	-0.0002	0.0029	-0.0010	0.0014	-0.0005	0.0000
2006	5-Oct	1	T	15	-0.0005	0.0004	-0.0001	0.0019	-0.0006	0.0019
2006	5-Oct	2	T	15	-0.0004	0.0000	0.0000	0.0024	-0.0008	0.0000
2006	5-Oct	3	T	15	-0.0003	0.0026	-0.0008	0.0031	-0.0010	0.0000
2006	5-Oct	1	C	30	-0.0005	0.0022	-0.0006	0.0016	-0.0005	0.0000
2006	5-Oct	2	C	30	-0.0003	0.0022	-0.0006	0.0012	-0.0003	0.0028
2006	5-Oct	3	C	30	-0.0003	0.0012	-0.0003	0.0034	-0.0010	0.0026
2006	5-Oct	1	T	30	0.0000	0.0000	0.0000	0.0079	-0.0022	0.0081
2006	5-Oct	2	T	30	-0.0003	0.0017	-0.0005	0.0002	0.0000	0.0000
2006	5-Oct	3	T	30	-0.0003	0.0022	-0.0006	0.0040	-0.0011	0.0021
2006	5-Oct	1	C	60	-0.0001	0.0017	-0.0004	0.0047	-0.0011	0.0034
2006	5-Oct	2	C	60	-0.0002	0.0000	0.0000	0.0011	-0.0003	0.0011
2006	5-Oct	3	C	60	-0.0003	0.0007	-0.0002	0.0040	-0.0010	0.0057
2006	5-Oct	1	T	60	-0.0003	0.0004	-0.0001	0.0007	-0.0002	0.0009
2006	5-Oct	2	T	60	-0.0004	0.0024	-0.0005	0.0027	-0.0006	0.0000
2006	5-Oct	3	T	60	-0.0001	0.0007	-0.0002	0.0047	-0.0011	0.0014
2006	5-Oct	1	C	120	0.0000	0.0007	-0.0001	0.0021	-0.0003	0.0006
2006	5-Oct	2	C	120	-0.0002	0.0018	-0.0003	0.0030	-0.0005	0.0014
2006	5-Oct	3	C	120	0.0000	0.0007	-0.0001	0.0026	-0.0004	0.0000
2006	5-Oct	1	T	120	0.0000	0.0000	0.0000	0.0007	-0.0001	0.0000
2006	5-Oct	2	T	120	-0.0002	0.0015	-0.0002	0.0046	-0.0006	0.0000
2006	5-Oct	3	T	120	-0.0002	0.0026	-0.0004	0.0011	-0.0002	0.0008
2006	5-Oct	1	C	200	-0.0001	0.0018	-0.0002	0.0007	-0.0001	0.0016
2006	5-Oct	2	C	200	-0.0002	0.0016	-0.0002	0.0001	0.0000	0.0000
2006	5-Oct	3	C	200	-0.0001	0.0019	-0.0002	0.0001	0.0000	0.0000
2006	5-Oct	1	T	200	-0.0001	0.0000	0.0000	0.0053	-0.0006	0.0059
2006	5-Oct	2	T	200	-0.0002	0.0025	-0.0003	0.0000	0.0000	0.0000
2006	5-Oct	3	T	200	0.0000	0.0000	0.0000	0.0102	-0.0011	0.0099
2006	12-Oct	1	C	15	-0.0001	0.0013	-0.0002	0.0016	-0.0002	0.0018
2006	12-Oct	2	C	15	-0.0002	0.0024	-0.0003	0.0024	-0.0003	0.0032

year	date	rep	trt	depth	Cd2265	Cd2288	Cd2288	Co2286	Co2286	Cr2677
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	12-Oct	3	C	15	-0.0003	0.0028	-0.0004	0.0050	-0.0007	0.0021
2006	12-Oct	1	T	15	-0.0002	0.0019	-0.0003	0.0018	-0.0002	0.0011
2006	12-Oct	2	T	15	-0.0002	0.0020	-0.0003	0.0020	-0.0003	0.0007
2006	12-Oct	3	T	15	-0.0003	0.0026	-0.0003	0.0073	-0.0010	0.0050
2006	12-Oct	1	C	30	-0.0001	0.0018	-0.0002	0.0070	-0.0008	0.0022
2006	12-Oct	2	C	30	-0.0001	0.0005	-0.0001	0.0015	-0.0002	0.0000
2006	12-Oct	3	C	30	-0.0001	0.0008	-0.0001	0.0028	-0.0003	0.0028
2006	12-Oct	1	T	30	-0.0001	0.0028	-0.0003	0.0026	-0.0003	0.0022
2006	12-Oct	2	T	30	-0.0001	0.0016	-0.0002	0.0006	-0.0001	0.0017
2006	12-Oct	3	T	30	-0.0001	0.0010	-0.0001	0.0033	-0.0004	0.0009
2006	12-Oct	1	C	60	-0.0001	0.0006	-0.0001	0.0036	-0.0004	0.0022
2006	12-Oct	2	C	60	-0.0002	0.0024	-0.0002	0.0000	0.0000	0.0000
2006	12-Oct	3	C	60	-0.0002	0.0028	-0.0003	0.0010	-0.0001	0.0017
2006	12-Oct	1	T	60	-0.0001	0.0027	-0.0003	0.0005	-0.0001	0.0007
2006	12-Oct	2	T	60	-0.0002	0.0016	-0.0002	0.0025	-0.0003	0.0009
2006	12-Oct	3	T	60	-0.0001	0.0006	-0.0001	0.0025	-0.0003	0.0000
2006	12-Oct	1	C	120	-0.0002	0.0017	-0.0002	0.0039	-0.0005	0.0015
2006	12-Oct	2	C	120	-0.0002	0.0011	-0.0002	0.0016	-0.0002	0.0024
2006	12-Oct	3	C	120	0.0000	0.0003	0.0000	0.0018	-0.0002	0.0005
2006	12-Oct	1	T	120	-0.0001	0.0009	-0.0001	0.0032	-0.0005	0.0021
2006	12-Oct	2	T	120	-0.0003	0.0037	-0.0006	0.0072	-0.0011	0.0030
2006	12-Oct	3	T	120	-0.0002	0.0018	-0.0003	0.0008	-0.0001	0.0012
2006	12-Oct	1	C	200	-0.0001	0.0006	-0.0001	0.0010	-0.0001	0.0017
2006	12-Oct	2	C	200	-0.0002	0.0010	-0.0001	0.0007	-0.0001	0.0000
2006	12-Oct	3	C	200	0.0000	0.0000	0.0000	0.0024	-0.0003	0.0013
2006	12-Oct	1	T	200	0.0000	0.0015	-0.0002	0.0027	-0.0003	0.0044
2006	12-Oct	2	T	200	-0.0001	0.0020	-0.0002	0.0018	-0.0002	0.0003
2006	12-Oct	3	T	200	-0.0002	0.0006	-0.0001	0.0000	0.0000	0.0013
2006	19-Oct	1	C	15	-0.0007	0.0025	-0.0012	0.0017	-0.0008	0.0025
2006	19-Oct	2	C	15	0.0000	0.0001	-0.0001	0.0006	-0.0003	0.0000
2006	19-Oct	3	C	15	-0.0007	0.0012	-0.0006	0.0043	-0.0020	0.0035
2006	19-Oct	1	T	15	0.0000	0.0008	-0.0004	0.0011	-0.0005	0.0006
2006	19-Oct	2	T	15	-0.0010	0.0032	-0.0014	0.0060	-0.0027	0.0044
2006	19-Oct	3	T	15	-0.0009	0.0018	-0.0008	0.0041	-0.0018	0.0020
2006	19-Oct	1	C	30	-0.0005	0.0007	-0.0003	0.0064	-0.0026	0.0036
2006	19-Oct	2	C	30	-0.0002	0.0000	0.0000	0.0026	-0.0011	0.0027
2006	19-Oct	3	C	30	-0.0002	0.0006	-0.0002	0.0048	-0.0019	0.0035
2006	19-Oct	1	T	30	-0.0005	0.0013	-0.0005	0.0034	-0.0012	0.0025
2006	19-Oct	2	T	30	-0.0002	0.0007	-0.0002	0.0033	-0.0011	0.0035
2006	19-Oct	3	T	30	-0.0002	0.0008	-0.0003	0.0028	-0.0010	0.0007
2006	19-Oct	1	C	60	-0.0005	0.0026	-0.0007	0.0022	-0.0006	0.0000
2006	19-Oct	2	C	60	-0.0002	0.0013	-0.0004	0.0022	-0.0006	0.0025
2006	19-Oct	3	C	60	-0.0003	0.0005	-0.0001	0.0042	-0.0011	0.0028
2006	19-Oct	1	T	60	-0.0003	0.0014	-0.0003	0.0021	-0.0004	0.0003
2006	19-Oct	2	T	60	-0.0003	0.0018	-0.0004	0.0019	-0.0004	0.0000
2006	19-Oct	3	T	60	-0.0001	0.0016	-0.0003	0.0024	-0.0005	0.0022

year	date	rep	trt	depth	Cd2265	Cd2288	Cd2288	Co2286	Co2286	Cr2677
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	19-Oct	1	C	120	0.0000	0.0000	0.0000	0.0022	-0.0003	0.0003
2006	19-Oct	2	C	120	-0.0001	0.0005	-0.0001	0.0046	-0.0006	0.0031
2006	19-Oct	3	C	120	0.0000	0.0008	-0.0001	0.0024	-0.0003	0.0019
2006	19-Oct	1	T	120	-0.0001	0.0015	-0.0002	0.0019	-0.0003	0.0024
2006	19-Oct	2	T	120	-0.0001	0.0019	-0.0003	0.0056	-0.0007	0.0006
2006	19-Oct	3	T	120	-0.0002	0.0015	-0.0002	0.0028	-0.0004	0.0020
2006	19-Oct	1	C	200	0.0000	0.0004	-0.0001	0.0036	-0.0005	0.0035
2006	19-Oct	2	C	200	-0.0001	0.0003	0.0000	0.0032	-0.0004	0.0033
2006	19-Oct	3	C	200	-0.0001	0.0011	-0.0001	0.0035	-0.0005	0.0026
2006	19-Oct	1	T	200	-0.0002	0.0022	-0.0003	0.0025	-0.0003	0.0017
2006	19-Oct	2	T	200	-0.0001	0.0003	0.0000	0.0011	-0.0001	0.0025
2006	19-Oct	3	T	200	-0.0001	0.0011	-0.0002	0.0010	-0.0001	0.0007
2006	26-Oct	1	C	15	-0.0026	0.0024	-0.0039	0.0004	-0.0007	0.0000
2006	26-Oct	2	C	15	-0.0022	0.0010	-0.0016	0.0000	0.0000	0.0000
2006	26-Oct	3	C	15	-0.0022	0.0029	-0.0047	0.0000	0.0000	0.0000
2006	26-Oct	1	T	15	-0.0014	0.0016	-0.0026	0.0033	-0.0054	0.0045
2006	26-Oct	2	T	15	-0.0025	0.0032	-0.0052	0.0000	0.0000	0.0000
2006	26-Oct	3	T	15	-0.0030	0.0031	-0.0050	0.0000	0.0000	0.0000
2006	26-Oct	1	C	30	-0.0001	0.0010	-0.0016	0.0040	-0.0067	0.0001
2006	26-Oct	2	C	30	-0.0025	0.0026	-0.0044	0.0002	-0.0003	0.0000
2006	26-Oct	3	C	30	-0.0009	0.0011	-0.0019	0.0008	-0.0013	0.0000
2006	26-Oct	1	T	30	-0.0016	0.0003	-0.0005	0.0040	-0.0068	0.0021
2006	26-Oct	2	T	30	-0.0023	0.0025	-0.0042	0.0004	-0.0006	0.0000
2006	26-Oct	3	T	30	-0.0026	0.0028	-0.0048	0.0000	0.0000	0.0000
2006	26-Oct	1	C	60	-0.0017	0.0002	-0.0003	0.0029	-0.0050	0.0006
2006	26-Oct	2	C	60	-0.0026	0.0018	-0.0031	0.0006	-0.0010	0.0000
2006	26-Oct	3	C	60	-0.0023	0.0020	-0.0034	0.0006	-0.0010	0.0000
2006	26-Oct	1	T	60	-0.0019	0.0012	-0.0021	0.0034	-0.0060	0.0025
2006	26-Oct	2	T	60	-0.0009	0.0000	0.0000	0.0022	-0.0039	0.0000
2006	26-Oct	3	T	60	-0.0013	0.0024	-0.0042	0.0000	0.0000	0.0000
2006	26-Oct	1	C	120	-0.0014	0.0015	-0.0024	0.0015	-0.0024	0.0000
2006	26-Oct	2	C	120	-0.0037	0.0030	-0.0047	0.0000	0.0000	0.0000
2006	26-Oct	3	C	120	-0.0030	0.0026	-0.0041	0.0014	-0.0022	0.0000
2006	26-Oct	1	T	120	-0.0021	0.0022	-0.0036	0.0005	-0.0008	0.0000
2006	26-Oct	2	T	120	-0.0004	0.0009	-0.0015	0.0060	-0.0095	0.0010
2006	26-Oct	3	T	120	-0.0022	0.0022	-0.0035	0.0000	0.0000	0.0000
2006	26-Oct	1	C	200	-0.0021	0.0021	-0.0031	0.0000	0.0000	0.0000
2006	26-Oct	2	C	200	-0.0004	0.0009	-0.0014	0.0001	-0.0001	0.0003
2006	26-Oct	3	C	200	-0.0033	0.0025	-0.0035	0.0000	0.0000	0.0000
2006	26-Oct	1	T	200	-0.0002	0.0007	-0.0010	0.0011	-0.0014	0.0014
2006	26-Oct	2	T	200	-0.0001	0.0004	-0.0005	0.0008	-0.0010	0.0005
2006	26-Oct	3	T	200	-0.0020	0.0022	-0.0029	0.0000	0.0000	0.0000
2006	2-Nov	1	C	15	0.0000	0.0000	0.0000	0.0033	0.0001	0.0029
2006	2-Nov	2	C	15	0.0000	0.0028	0.0001	0.0010	0.0000	0.0003
2006	2-Nov	3	C	15	0.0001	0.0026	0.0001	0.0000	0.0000	0.0000
2006	2-Nov	1	T	15	0.0000	0.0023	0.0001	0.0000	0.0000	0.0000

year	date	rep	trt	depth	Cd2265	Cd2288	Cd2288	Co2286	Co2286	Cr2677
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	2-Nov	2	T	15	0.0000	0.0022	0.0001	0.0000	0.0000	0.0000
2006	2-Nov	3	T	15	0.0000	0.0011	0.0000	0.0000	0.0000	0.0000
2006	2-Nov	1	C	30	0.0000	0.0010	0.0000	0.0032	0.0000	0.0000
2006	2-Nov	2	C	30	0.0000	0.0011	0.0000	0.0000	0.0000	0.0000
2006	2-Nov	3	C	30	0.0000	0.0015	0.0000	0.0018	0.0000	0.0000
2006	2-Nov	1	T	30	0.0000	0.0000	0.0000	0.0048	-0.0001	0.0031
2006	2-Nov	2	T	30	0.0000	0.0024	-0.0001	0.0012	0.0000	0.0002
2006	2-Nov	3	T	30	0.0000	0.0028	-0.0001	0.0001	0.0000	0.0000
2006	2-Nov	1	C	60	-0.0001	0.0019	-0.0001	0.0016	-0.0001	0.0000
2006	2-Nov	2	C	60	-0.0001	0.0008	0.0000	0.0018	-0.0001	0.0019
2006	2-Nov	3	C	60	-0.0001	0.0020	-0.0001	0.0000	0.0000	0.0000
2006	2-Nov	1	T	60	-0.0001	0.0023	-0.0002	0.0006	-0.0001	0.0000
2006	2-Nov	2	T	60	-0.0002	0.0022	-0.0002	0.0031	-0.0003	0.0001
2006	2-Nov	3	T	60	-0.0002	0.0029	-0.0003	0.0010	-0.0001	0.0000
2006	2-Nov	1	C	120	-0.0001	0.0012	-0.0002	0.0010	-0.0001	0.0000
2006	2-Nov	2	C	120	-0.0001	0.0018	-0.0002	0.0010	-0.0001	0.0000
2006	2-Nov	3	C	120	0.0000	0.0005	-0.0001	0.0019	-0.0003	0.0007
2006	2-Nov	1	T	120	-0.0003	0.0021	-0.0004	0.0005	-0.0001	0.0000
2006	2-Nov	2	T	120	-0.0003	0.0025	-0.0005	0.0048	-0.0010	0.0000
2006	2-Nov	3	T	120	-0.0001	0.0006	-0.0001	0.0027	-0.0006	0.0000
2006	2-Nov	1	C	200	-0.0004	0.0023	-0.0006	0.0000	0.0000	0.0000
2006	2-Nov	2	C	200	-0.0003	0.0010	-0.0003	0.0000	0.0000	0.0000
2006	2-Nov	3	C	200	-0.0005	0.0018	-0.0005	0.0000	0.0000	0.0000
2006	2-Nov	1	T	200	-0.0003	0.0016	-0.0006	0.0000	0.0000	0.0000
2006	2-Nov	2	T	200	-0.0006	0.0013	-0.0005	0.0000	0.0000	0.0000
2006	2-Nov	3	T	200	-0.0001	0.0008	-0.0003	0.0000	0.0000	0.0000
2006	9-Nov	1	C	15	-0.0007	0.0020	-0.0009	0.0020	-0.0010	0.0001
2006	9-Nov	2	C	15	0.0000	0.0016	-0.0008	0.0000	0.0000	0.0000
2006	9-Nov	3	C	15	-0.0006	0.0018	-0.0009	0.0001	-0.0001	0.0000
2006	9-Nov	1	T	15	-0.0007	0.0023	-0.0010	0.0000	0.0000	0.0000
2006	9-Nov	2	T	15	-0.0007	0.0018	-0.0008	0.0017	-0.0008	0.0000
2006	9-Nov	3	T	15	-0.0003	0.0006	-0.0003	0.0008	-0.0004	0.0004
2006	9-Nov	1	C	30	-0.0006	0.0020	-0.0007	0.0021	-0.0007	0.0000
2006	9-Nov	2	C	30	-0.0005	0.0014	-0.0005	0.0004	-0.0001	0.0001
2006	9-Nov	3	C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	9-Nov	1	T	30	-0.0002	0.0015	-0.0004	0.0017	-0.0005	0.0012
2006	9-Nov	2	T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	9-Nov	3	T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	9-Nov	1	C	60	-0.0001	0.0021	-0.0002	0.0012	-0.0001	0.0000
2006	9-Nov	2	C	60	-0.0001	0.0016	-0.0001	0.0012	-0.0001	0.0009
2006	9-Nov	3	C	60	-0.0001	0.0021	-0.0002	0.0007	-0.0001	0.0000
2006	9-Nov	1	T	60	0.0000	0.0017	-0.0001	0.0016	-0.0001	0.0001
2006	9-Nov	2	T	60	0.0000	0.0014	0.0000	0.0043	-0.0001	0.0010
2006	9-Nov	3	T	60						
2006	9-Nov	1	C	120	0.0000	0.0000	0.0000	0.0060	-0.0001	0.0032
2006	9-Nov	2	C	120	0.0000	0.0020	0.0000	0.0016	0.0000	0.0000

year	date	rep	trt	depth	Cd2265	Cd2288	Cd2288	Co2286	Co2286	Cr2677
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	9-Nov	3	C	120	0.0000	0.0013	0.0000	0.0000	0.0000	0.0000
2006	9-Nov	1	T	120	0.0000	0.0018	-0.0001	0.0012	0.0000	0.0000
2006	9-Nov	2	T	120	-0.0001	0.0022	-0.0001	0.0041	-0.0002	0.0000
2006	9-Nov	3	T	120	-0.0001	0.0028	-0.0001	0.0058	-0.0002	0.0000
2006	9-Nov	1	C	200	-0.0001	0.0008	-0.0001	0.0004	-0.0001	0.0000
2006	9-Nov	2	C	200	-0.0002	0.0018	-0.0002	0.0001	0.0000	0.0000
2006	9-Nov	3	C	200	-0.0001	0.0024	-0.0003	0.0001	0.0000	0.0000
2006	9-Nov	1	T	200	-0.0002	0.0003	0.0000	0.0005	-0.0001	0.0001
2006	9-Nov	2	T	200	-0.0002	0.0008	-0.0001	0.0000	0.0000	0.0000
2006	9-Nov	3	T	200	-0.0001	0.0006	-0.0001	0.0000	0.0000	0.0000
2006	16-Nov	1	C	15	-0.0016	0.0033	-0.0019	0.0042	-0.0025	0.0033
2006	16-Nov	2	C	15	-0.0006	0.0015	-0.0009	0.0000	0.0000	0.0000
2006	16-Nov	3	C	15	-0.0006	0.0010	-0.0006	0.0005	-0.0003	0.0005
2006	16-Nov	1	T	15	-0.0006	0.0015	-0.0009	0.0005	-0.0003	0.0005
2006	16-Nov	2	T	15	-0.0007	0.0012	-0.0007	0.0016	-0.0009	0.0000
2006	16-Nov	3	T	15	-0.0008	0.0024	-0.0014	0.0006	-0.0004	0.0000
2006	16-Nov	1	C	30	-0.0009	0.0018	-0.0010	0.0022	-0.0012	0.0004
2006	16-Nov	2	C	30	-0.0008	0.0020	-0.0011	0.0010	-0.0006	0.0000
2006	16-Nov	3	C	30	-0.0010	0.0017	-0.0010	0.0023	-0.0013	0.0005
2006	16-Nov	1	T	30	-0.0009	0.0017	-0.0010	0.0004	-0.0003	0.0000
2006	16-Nov	2	T	30	-0.0007	0.0021	-0.0012	0.0023	-0.0014	0.0001
2006	16-Nov	3	T	30	-0.0010	0.0016	-0.0010	0.0000	0.0000	0.0000
2006	16-Nov	1	C	60	-0.0006	0.0018	-0.0010	0.0027	-0.0015	0.0003
2006	16-Nov	2	C	60	-0.0008	0.0028	-0.0016	0.0002	-0.0001	0.0000
2006	16-Nov	3	C	60	0.0000	0.0000	0.0000	0.0034	-0.0019	0.0041
2006	16-Nov	1	T	60	-0.0003	0.0010	-0.0006	0.0005	-0.0003	0.0000
2006	16-Nov	2	T	60	-0.0010	0.0002	-0.0001	0.0004	-0.0002	0.0000
2006	16-Nov	3	T	60	-0.0007	0.0024	-0.0014	0.0000	0.0000	0.0000
2006	16-Nov	1	C	120	-0.0002	0.0012	-0.0003	0.0021	-0.0005	0.0000
2006	16-Nov	2	C	120	-0.0002	0.0019	-0.0005	0.0012	-0.0003	0.0000
2006	16-Nov	3	C	120	-0.0001	0.0000	0.0000	0.0040	-0.0010	0.0024
2006	16-Nov	1	T	120	-0.0004	0.0015	-0.0002	0.0024	-0.0004	0.0014
2006	16-Nov	2	T	120	-0.0002	0.0014	-0.0002	0.0044	-0.0007	0.0000
2006	16-Nov	3	T	120	-0.0002	0.0019	-0.0003	0.0036	-0.0006	0.0000
2006	16-Nov	1	C	200	-0.0001	0.0015	-0.0001	0.0009	-0.0001	0.0000
2006	16-Nov	2	C	200	-0.0001	0.0026	-0.0002	0.0000	0.0000	0.0000
2006	16-Nov	3	C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0008
2006	16-Nov	1	T	200	0.0000	0.0001	0.0000	0.0018	-0.0002	0.0019
2006	16-Nov	2	T	200	-0.0001	0.0018	-0.0002	0.0000	0.0000	0.0001
2006	16-Nov	3	T	200	-0.0001	0.0011	-0.0001	0.0004	0.0000	0.0000
2006	23-Nov	1	C	15	0.0000	0.0000	0.0000	0.0011	-0.0003	0.0011
2006	23-Nov	2	C	15	0.0000	0.0000	0.0000	0.0006	-0.0001	0.0012
2006	23-Nov	3	C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0002
2006	23-Nov	1	T	15	0.0000	0.0002	0.0000	0.0004	-0.0001	0.0013
2006	23-Nov	2	T	15	0.0000	0.0002	0.0000	0.0013	-0.0004	0.0010
2006	23-Nov	3	T	15	0.0000	0.0000	0.0000	0.0008	-0.0002	0.0016

year	date	rep	trt	depth	Cd2265	Cd2288	Cd2288	Co2286	Co2286	Cr2677
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	23-Nov	1	C	30	-0.0001	0.0004	-0.0001	0.0023	-0.0006	0.0000
2006	23-Nov	2	C	30	0.0000	0.0000	0.0000	0.0060	-0.0015	0.0075
2006	23-Nov	3	C	30	0.0000	0.0009	-0.0002	0.0016	-0.0004	0.0018
2006	23-Nov	1	T	30	-0.0001	0.0000	0.0000	0.0001	0.0000	0.0002
2006	23-Nov	2	T	30	0.0000	0.0000	0.0000	0.0014	-0.0004	0.0000
2006	23-Nov	3	T	30	0.0000	0.0000	0.0000	0.0008	-0.0002	0.0007
2006	23-Nov	1	C	60	0.0000	0.0000	0.0000	0.0019	-0.0004	0.0002
2006	23-Nov	2	C	60	0.0000	0.0000	0.0000	0.0007	-0.0002	0.0014
2006	23-Nov	3	C	60	0.0000	0.0000	0.0000	0.0007	-0.0002	0.0019
2006	23-Nov	1	T	60	0.0000	0.0000	0.0000	0.0023	-0.0006	0.0023
2006	23-Nov	2	T	60	0.0000	0.0000	0.0000	0.0004	-0.0001	0.0000
2006	23-Nov	3	T	60	0.0000	0.0000	0.0000	0.0012	-0.0003	0.0007
2006	23-Nov	1	C	120	0.0000	0.0000	0.0000	0.0007	-0.0002	0.0000
2006	23-Nov	2	C	120	0.0000	0.0000	0.0000	0.0011	-0.0003	0.0004
2006	23-Nov	3	C	120	0.0000	0.0000	0.0000	0.0012	-0.0003	0.0004
2006	23-Nov	1	T	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	23-Nov	2	T	120	0.0000	0.0000	0.0000	0.0050	-0.0014	0.0004
2006	23-Nov	3	T	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0002
2006	23-Nov	1	C	200	0.0000	0.0000	0.0000	0.0006	-0.0001	0.0004
2006	23-Nov	2	C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0010
2006	23-Nov	3	C	200	0.0000	0.0000	0.0000	0.0008	-0.0002	0.0012
2006	23-Nov	1	T	200	0.0000	0.0000	0.0000	0.0021	-0.0004	0.0029
2006	23-Nov	2	T	200	0.0000	0.0000	0.0000	0.0048	-0.0009	0.0044
2006	23-Nov	3	T	200	0.0000	0.0000	0.0000	0.0011	-0.0002	0.0023
2006	30-Nov	1	C	15	0.0000	0.0000	0.0000	0.0015	-0.0005	0.0025
2006	30-Nov	2	C	15	0.0000	0.0000	0.0000	0.0015	-0.0005	0.0016
2006	30-Nov	3	C	15	-0.0001	0.0000	0.0000	0.0017	-0.0005	0.0010
2006	30-Nov	1	T	15	0.0000	0.0000	0.0000	0.0008	-0.0002	0.0006
2006	30-Nov	2	T	15	0.0000	0.0000	0.0000	0.0001	0.0000	0.0003
2006	30-Nov	3	T	15	0.0000	0.0000	0.0000	0.0003	-0.0001	0.0012
2006	30-Nov	1	C	30	0.0000	0.0005	-0.0001	0.0042	-0.0013	0.0016
2006	30-Nov	2	C	30	0.0000	0.0000	0.0000	0.0007	-0.0002	0.0010
2006	30-Nov	3	C	30	-0.0002	0.0000	0.0000	0.0010	-0.0003	0.0006
2006	30-Nov	1	T	30	0.0000	0.0000	0.0000	0.0006	-0.0002	0.0010
2006	30-Nov	2	T	30	0.0000	0.0005	-0.0001	0.0015	-0.0005	0.0014
2006	30-Nov	3	T	30	0.0000	0.0000	0.0000	0.0033	-0.0010	0.0030
2006	30-Nov	1	C	60	0.0000	0.0000	0.0000	0.0018	-0.0005	0.0015
2006	30-Nov	2	C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0006
2006	30-Nov	3	C	60	0.0000	0.0000	0.0000	0.0044	-0.0013	0.0040
2006	30-Nov	1	T	60	0.0000	0.0000	0.0000	0.0009	-0.0003	0.0000
2006	30-Nov	2	T	60	0.0000	0.0000	0.0000	0.0016	-0.0005	0.0013
2006	30-Nov	3	T	60	0.0000	0.0000	0.0000	0.0002	-0.0001	0.0008
2006	30-Nov	1	C	120	0.0000	0.0000	0.0000	0.0028	-0.0007	0.0009
2006	30-Nov	2	C	120	0.0000	0.0000	0.0000	0.0010	-0.0002	0.0011
2006	30-Nov	3	C	120	0.0000	0.0000	0.0000	0.0003	-0.0001	0.0000
2006	30-Nov	1	T	120	-0.0002	0.0000	0.0000	0.0011	-0.0003	0.0009

year	date	rep	trt	depth	Cd2265	Cd2288	Cd2288	Co2286	Co2286	Cr2677
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	30-Nov	2	T	120	0.0000	0.0000	0.0000	0.0042	-0.0010	0.0000
2006	30-Nov	3	T	120	0.0000	0.0000	0.0000	0.0005	-0.0001	0.0000
2006	30-Nov	1	C	200	0.0000	0.0000	0.0000	0.0012	-0.0003	0.0008
2006	30-Nov	2	C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	30-Nov	3	C	200	0.0000	0.0000	0.0000	0.0002	0.0000	0.0001
2006	30-Nov	1	T	200	0.0000	0.0000	0.0000	0.0031	-0.0007	0.0040
2006	30-Nov	2	T	200	0.0000	0.0000	0.0000	0.0009	-0.0002	0.0020
2006	30-Nov	3	T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	7-Dec	1	T	15						
2006	7-Dec	2	T	15						
2006	7-Dec	3	T	15	0.0000	0.0006	-0.0001	0.0003	0.0000	0.0000
2006	7-Dec	1	C	30	0.0000	0.0000	0.0000	0.0037	-0.0001	0.0024
2006	7-Dec	2	C	30	0.0000	0.0012	0.0000	0.0009	0.0000	0.0007
2006	7-Dec	3	C	30						
2006	7-Dec	1	T	30	0.0000	0.0000	0.0000	0.0009	0.0000	0.0014
2006	7-Dec	2	T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	7-Dec	3	T	30	0.0000	0.0008	0.0000	0.0021	0.0000	0.0022
2006	7-Dec	1	C	60	0.0000	0.0000	0.0000	0.0022	0.0000	0.0016
2006	7-Dec	2	C	60	0.0000	0.0015	0.0000	0.0008	0.0000	0.0005
2006	7-Dec	3	C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0011
2006	7-Dec	1	T	60	0.0000	0.0000	0.0000	0.0012	0.0000	0.0009
2006	7-Dec	2	T	60	0.0000	0.0000	0.0000	0.0010	0.0000	0.0000
2006	7-Dec	3	T	60	0.0000	0.0000	0.0000	0.0013	0.0000	0.0011
2006	7-Dec	1	C	120	0.0000	0.0005	0.0000	0.0018	-0.0001	0.0000
2006	7-Dec	2	C	120	0.0000	0.0000	0.0000	0.0028	-0.0002	0.0020
2006	7-Dec	3	C	120	0.0000	0.0010	-0.0001	0.0020	-0.0001	0.0000
2006	7-Dec	1	T	120	0.0000	0.0000	0.0000	0.0010	-0.0001	0.0010
2006	7-Dec	2	T	120	0.0000	0.0000	0.0000	0.0055	-0.0006	0.0013
2006	7-Dec	3	T	120	-0.0001	0.0000	0.0000	0.0037	-0.0004	0.0020
2006	7-Dec	1	C	200	0.0000	0.0000	0.0000	0.0021	-0.0004	0.0027
2006	7-Dec	2	C	200	0.0000	0.0000	0.0000	0.0009	-0.0001	0.0033
2006	7-Dec	3	C	200	0.0000	0.0000	0.0000	0.0008	-0.0001	0.0003
2006	7-Dec	1	T	200	0.0000	0.0000	0.0000	0.0030	-0.0006	0.0024
2006	7-Dec	2	T	200	0.0000	0.0000	0.0000	0.0001	0.0000	0.0015
2006	7-Dec	3	T	200	0.0000	0.0000	0.0000	0.0006	-0.0001	0.0028
2006	14-Dec	1	C	15	0.0000	0.0000	0.0000	0.0006	0.0000	0.0007
2006	14-Dec	2	C	15	0.0000	0.0012	0.0000	0.0002	0.0000	0.0004
2006	14-Dec	3	C	15	0.0000	0.0009	0.0000	0.0019	0.0000	0.0000
2006	14-Dec	1	T	15	0.0000	0.0000	0.0000	0.0006	0.0000	0.0003
2006	14-Dec	2	T	15	0.0000	0.0000	0.0000	0.0009	0.0000	0.0013
2006	14-Dec	3	T	15	0.0000	0.0000	0.0000	0.0007	0.0000	0.0002
2006	14-Dec	1	C	30	0.0000	0.0010	0.0000	0.0048	-0.0001	0.0012
2006	14-Dec	2	C	30	0.0000	0.0003	0.0000	0.0019	0.0000	0.0012
2006	14-Dec	3	C	30	0.0000	0.0019	0.0000	0.0031	-0.0001	0.0007
2006	14-Dec	1	T	30	0.0000	0.0000	0.0000	0.0001	0.0000	0.0007
2006	14-Dec	2	T	30	0.0000	0.0000	0.0000	0.0026	-0.0002	0.0023

year	date	rep	trt	depth	Cd2265	Cd2288	Cd2288	Co2286	Co2286	Cr2677
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	14-Dec	3	T	30	0.0000	0.0000	0.0000	0.0020	-0.0002	0.0003
2006	14-Dec	1	C	60	0.0000	0.0000	0.0000	0.0008	-0.0001	0.0000
2006	14-Dec	2	C	60	0.0000	0.0002	0.0000	0.0000	0.0000	0.0006
2006	14-Dec	3	C	60	0.0000	0.0016	-0.0001	0.0004	0.0000	0.0001
2006	14-Dec	1	T	60	0.0000	0.0000	0.0000	0.0059	-0.0005	0.0060
2006	14-Dec	2	T	60	0.0000	0.0000	0.0000	0.0019	-0.0002	0.0038
2006	14-Dec	3	T	60	0.0000	0.0000	0.0000	0.0013	-0.0001	0.0017
2006	14-Dec	1	C	120	0.0000	0.0005	0.0000	0.0023	-0.0001	0.0003
2006	14-Dec	2	C	120	0.0000	0.0002	0.0000	0.0034	-0.0002	0.0014
2006	14-Dec	3	C	120	0.0000	0.0000	0.0000	0.0081	-0.0004	0.0061
2006	14-Dec	1	T	120	0.0000	0.0000	0.0000	0.0021	-0.0001	0.0016
2006	14-Dec	2	T	120	0.0000	0.0000	0.0000	0.0080	-0.0005	0.0024
2006	14-Dec	3	T	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	14-Dec	1	C	200	0.0000	0.0000	0.0000	0.0067	-0.0006	0.0079
2006	14-Dec	2	C	200	0.0000	0.0015	-0.0001	0.0008	-0.0001	0.0005
2006	14-Dec	3	C	200	0.0000	0.0011	-0.0001	0.0018	-0.0002	0.0003
2006	14-Dec	1	T	200	0.0000	0.0000	0.0000	0.0008	-0.0001	0.0022
2006	14-Dec	2	T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0021
2006	14-Dec	3	T	200	0.0000	0.0000	0.0000	0.0028	-0.0004	0.0026

year	date	rep	trt	depth	Cr2677	Cu3247	Cu3247	Fe2599	Fe2599	Fe2714
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	21-Apr	1	C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	21-Apr	2	C	15	0.0000	0.0000	0.0000	0.0028	-0.0002	0.0000
2006	21-Apr	3	C	15	0.0000	0.0000	0.0000	0.0018	-0.0001	0.0000
2006	21-Apr	1	T	15	0.0000	0.0009	-0.0001	0.0032	-0.0002	0.0000
2006	21-Apr	2	T	15	0.0000	0.1421	-0.0101	0.0000	0.0000	0.0154
2006	21-Apr	3	T	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	21-Apr	1	C	30	0.0000	0.0134	-0.0006	0.0032	-0.0001	0.0337
2006	21-Apr	2	C	30	0.0000	0.0053	-0.0002	0.0011	0.0000	0.0000
2006	21-Apr	3	C	30						
2006	21-Apr	1	T	30	0.0000	0.0000	0.0000	0.0014	-0.0001	0.0000
2006	21-Apr	2	T	30						
2006	21-Apr	3	T	30	0.0000	0.0139	-0.0005	0.0000	0.0000	0.0132
2006	21-Apr	1	C	60						
2006	21-Apr	2	C	60	-0.0001	0.0003	0.0000	0.0011	0.0000	0.0059
2006	21-Apr	3	C	60	0.0000	0.0000	0.0000	0.0041	-0.0001	0.0000
2006	27-Apr	1	C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	27-Apr	2	C	15	-0.0019	0.0139	-0.0160	0.0000	0.0000	0.0225
2006	27-Apr	3	C	15	0.0000	0.0000	0.0000	0.0002	-0.0003	0.0000
2006	27-Apr	1	T	15	0.0000	0.0015	-0.0017	0.0000	0.0000	0.0000
2006	27-Apr	2	T	15	0.0000	0.0000	0.0000	0.0014	-0.0016	0.0000
2006	27-Apr	3	T	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	27-Apr	1	C	30	0.0000	0.0000	0.0000	0.0002	-0.0002	0.0000
2006	27-Apr	2	C	30	0.0000	0.0000	0.0000	0.0002	-0.0002	0.0000
2006	27-Apr	3	C	30	0.0000	0.0000	0.0000	0.0008	-0.0009	0.0000
2006	27-Apr	1	T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	27-Apr	2	T	30	0.0000	0.0000	0.0000	0.0007	-0.0007	0.0000
2006	27-Apr	3	T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	27-Apr	1	C	60	0.0000	0.0000	0.0000	0.0022	-0.0020	0.0000
2006	27-Apr	2	C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	27-Apr	3	C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	27-Apr	1	T	60	0.0000	0.0000	0.0000	0.0001	-0.0001	0.0000
2006	27-Apr	2	T	60	-0.0007	0.0133	-0.0107	0.0000	0.0000	0.0086
2006	27-Apr	3	T	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	27-Apr	1	C	120	0.0000	0.0000	0.0000	0.0002	-0.0001	0.0000
2006	27-Apr	2	C	120	0.0000	0.0000	0.0000	0.0011	-0.0004	0.0000
2006	27-Apr	3	C	120	-0.0001	0.0144	-0.0056	0.0000	0.0000	0.0116
2006	27-Apr	1	T	120	-0.0002	0.0000	0.0000	0.0000	0.0000	0.0000
2006	27-Apr	2	T	120						
2006	27-Apr	3	T	120	-0.0004	0.0000	0.0000	0.0000	0.0000	0.0000
2006	27-Apr	1	C	200	0.0000	0.0113	0.0000	0.0000	0.0000	0.0000
2006	27-Apr	2	C	200	0.0000	0.0109	0.0000	0.0000	0.0000	0.0114
2006	27-Apr	3	C	200	0.0000	0.0116	0.0000	0.0000	0.0000	0.0086
2006	27-Apr	1	T	200	0.0000	0.0109	0.0000	0.0000	0.0000	0.0018
2006	27-Apr	2	T	200						
2006	27-Apr	3	T	200	0.0000	0.0000	0.0000	0.0017	0.0000	0.0000
2006	4-May	1	C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	4-May	2	C	15	0.0000	0.0000	0.0000	0.0002	-0.0001	0.0000

year	date	rep	trt	depth	Cr2677	Cu3247	Cu3247	Fe2599	Fe2599	Fe2714
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	4-May	3	C	15	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000
2006	4-May	1	T	15	-0.0002	0.0000	0.0000	0.0072	-0.0035	0.0000
2006	4-May	2	T	15	-0.0004	0.0166	-0.0081	0.0000	0.0000	0.0349
2006	4-May	3	T	15	0.0000	0.0000	0.0000	0.0011	-0.0006	0.0000
2006	4-May	1	C	30	0.0000	0.0000	0.0000	0.0063	-0.0029	0.0000
2006	4-May	2	C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	4-May	3	C	30	0.0000	0.0000	0.0000	0.0030	-0.0014	0.0000
2006	4-May	1	T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	4-May	2	T	30	-0.0019	0.0000	0.0000	0.0018	-0.0008	0.0200
2006	4-May	3	T	30	0.0000	0.0000	0.0000	0.0012	-0.0006	0.0000
2006	4-May	1	C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	4-May	2	C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	4-May	3	C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	4-May	1	T	60	-0.0002	0.0000	0.0000	0.0000	0.0000	0.0000
2006	4-May	2	T	60	0.0000	0.0000	0.0000	0.0032	-0.0015	0.0000
2006	4-May	3	T	60	0.0000	0.0000	0.0000	0.0003	-0.0002	0.0000
2006	4-May	1	C	120	0.0000	0.0000	0.0000	0.0006	-0.0003	0.0000
2006	4-May	2	C	120	0.0000	0.0000	0.0000	0.0018	-0.0008	0.0000
2006	4-May	3	C	120	-0.0005	0.0000	0.0000	0.0090	-0.0039	0.0000
2006	4-May	1	T	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	4-May	2	T	120						
2006	4-May	3	T	120	0.0000	0.0000	0.0000	0.0005	-0.0002	0.0000
2006	4-May	1	C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	4-May	2	C	200	0.0000	0.0000	0.0000	0.0013	-0.0001	0.0000
2006	4-May	3	C	200	-0.0001	0.0000	0.0000	0.0009	-0.0001	0.0000
2006	4-May	1	T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	4-May	2	T	200						
2006	4-May	3	T	200	0.0000	0.0108	0.0000	0.0000	0.0000	0.0035
2006	12-May	1	C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	2	C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	3	C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	1	T	15	0.0000	0.0000	0.0000	0.0059	-0.0051	0.0000
2006	12-May	2	T	15	-0.0008	0.0112	-0.0098	0.0000	0.0000	0.0091
2006	12-May	3	T	15	0.0000	0.0000	0.0000	0.0010	-0.0009	0.0000
2006	12-May	1	C	30	0.0000	0.0000	0.0000	0.0014	-0.0012	0.0000
2006	12-May	2	C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	3	C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	1	T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	2	T	30	0.0000	0.0000	0.0000	0.0005	-0.0005	0.0000
2006	12-May	3	T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	1	C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	2	C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	3	C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	1	T	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	2	T	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	3	T	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

year	date	rep	trt	depth	Cr2677	Cu3247	Cu3247	Fe2599	Fe2599	Fe2714
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	12-May	1	C	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	2	C	120						
2006	12-May	3	C	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	1	T	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	2	T	120	0.0000	0.0237	-0.0216	0.0000	0.0000	0.0220
2006	12-May	3	T	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	1	C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	2	C	200	0.0000	0.0112	-0.0106	0.0000	0.0000	0.0104
2006	12-May	3	C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	1	T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	2	T	200	-0.0002	0.0139	-0.0073	0.0000	0.0000	0.0099
2006	12-May	3	T	200	-0.0008	0.0000	0.0000	0.0000	0.0000	0.0000
2006	19-May	1	C	15	0.0000	0.0000	0.0000	0.0083	-0.0023	0.0000
2006	19-May	2	C	15	0.0000	0.0000	0.0000	0.0094	-0.0026	0.0000
2006	19-May	3	C	15	0.0000	0.0000	0.0000	0.0104	-0.0029	0.0000
2006	19-May	1	T	15	0.0000	0.0000	0.0000	0.0061	-0.0017	0.0000
2006	19-May	2	T	15	0.0000	0.0008	-0.0002	0.0097	-0.0027	0.0000
2006	19-May	3	T	15	0.0000	0.0000	0.0000	0.0128	-0.0036	0.0000
2006	19-May	1	C	30	0.0000	0.0000	0.0000	0.0086	-0.0025	0.0000
2006	19-May	2	C	30	-0.0002	0.0136	-0.0039	0.0000	0.0000	0.0073
2006	19-May	3	C	30	0.0000	0.0124	-0.0035	0.0000	0.0000	0.0164
2006	19-May	1	T	30	0.0000	0.0000	0.0000	0.0005	-0.0002	0.0000
2006	19-May	2	T	30	-0.0001	0.0021	-0.0006	0.0104	-0.0031	0.0000
2006	19-May	3	T	30	-0.0001	0.0135	-0.0040	0.0000	0.0000	0.0198
2006	19-May	1	C	60	-0.0006	0.0027	-0.0008	0.0091	-0.0028	0.0024
2006	19-May	2	C	60	0.0000	0.0000	0.0000	0.0101	-0.0031	0.0000
2006	19-May	3	C	60	0.0000	0.0000	0.0000	0.0087	-0.0027	0.0000
2006	19-May	1	T	60	0.0000	0.0000	0.0000	0.0010	-0.0003	0.0000
2006	19-May	2	T	60	0.0000	0.0000	0.0000	0.0106	-0.0035	0.0000
2006	19-May	3	T	60	0.0000	0.0000	0.0000	0.0107	-0.0035	0.0000
2006	19-May	1	C	120	0.0000	0.0000	0.0000	0.0084	-0.0030	0.0000
2006	19-May	2	C	120	0.0000	0.0032	-0.0011	0.0104	-0.0037	0.0000
2006	19-May	3	C	120	-0.0003	0.0138	-0.0050	0.0000	0.0000	0.0101
2006	19-May	1	T	120	-0.0002	0.0052	-0.0020	0.0074	-0.0029	0.0000
2006	19-May	2	T	120	0.0000	0.0090	-0.0035	0.0169	-0.0065	0.0000
2006	19-May	3	T	120	0.0000	0.0005	-0.0002	0.0081	-0.0031	0.0000
2006	19-May	1	C	200	0.0000	0.0000	0.0000	0.0083	-0.0031	0.0000
2006	19-May	2	C	200	0.0000	0.0000	0.0000	0.0094	-0.0036	0.0000
2006	19-May	3	C	200	0.0000	0.0000	0.0000	0.0064	-0.0024	0.0000
2006	19-May	1	T	200	-0.0004	0.0000	0.0000	0.0055	-0.0023	0.0000
2006	19-May	2	T	200	0.0000	0.0021	-0.0009	0.0077	-0.0032	0.0000
2006	19-May	3	T	200	0.0000	0.0118	-0.0049	0.0000	0.0000	0.0000
2006	27-May	1	C	15	0.0000	0.0000	0.0000	0.0097	-0.0066	0.0000
2006	27-May	2	C	15	0.0000	0.0000	0.0000	0.0079	-0.0054	0.0000
2006	27-May	3	C	15	0.0000	0.0000	0.0000	0.0098	-0.0067	0.0000
2006	27-May	1	T	15						
2006	27-May	2	T	15	0.0000	0.0000	0.0000	0.0126	-0.0087	0.0000

year	date	rep	trt	depth	Cr2677	Cu3247	Cu3247	Fe2599	Fe2599	Fe2714
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	27-May	3	T	15	0.0000	0.0096	-0.0066	0.0093	-0.0065	0.0000
2006	27-May	1	C	30	0.0000	0.0000	0.0000	0.0097	-0.0065	0.0000
2006	27-May	2	C	30	-0.0001	0.0116	-0.0078	0.0000	0.0000	0.0081
2006	27-May	3	C	30	0.0000	0.0000	0.0000	0.0089	-0.0059	0.0000
2006	27-May	1	T	30	0.0000	0.0000	0.0000	0.0084	-0.0057	0.0000
2006	27-May	2	T	30	0.0000	0.0000	0.0000	0.0091	-0.0061	0.0000
2006	27-May	3	T	30	0.0000	0.0000	0.0000	0.0081	-0.0055	0.0000
2006	27-May	1	C	60	0.0000	0.0000	0.0000	0.0081	-0.0052	0.0000
2006	27-May	2	C	60	0.0000	0.0000	0.0000	0.0091	-0.0058	0.0000
2006	27-May	3	C	60	-0.0020	0.0004	-0.0003	0.0087	-0.0055	0.0091
2006	27-May	1	T	60	0.0000	0.0000	0.0000	0.0095	-0.0059	0.0000
2006	27-May	2	T	60	0.0000	0.0000	0.0000	0.0150	-0.0093	0.0000
2006	27-May	3	T	60	0.0000	0.0000	0.0000	0.0105	-0.0065	0.0000
2006	27-May	1	C	120	0.0000	0.0000	0.0000	0.0085	-0.0046	0.0000
2006	27-May	2	C	120	0.0000	0.0042	-0.0023	0.0091	-0.0050	0.0000
2006	27-May	3	C	120	0.0000	0.0000	0.0000	0.0118	-0.0065	0.0000
2006	27-May	1	T	120	-0.0005	0.0013	-0.0006	0.0088	-0.0044	0.0073
2006	27-May	2	T	120	0.0000	0.0000	0.0000	0.0103	-0.0052	0.0000
2006	27-May	3	T	120	-0.0013	0.0033	-0.0016	0.0073	-0.0037	0.0419
2006	27-May	1	C	200	0.0000	0.0000	0.0000	0.0068	-0.0031	0.0000
2006	27-May	2	C	200	-0.0002	0.0000	0.0000	0.0081	-0.0037	0.0000
2006	27-May	3	C	200	0.0000	0.0000	0.0000	0.0082	-0.0037	0.0000
2006	27-May	1	T	200	0.0000	0.0000	0.0000	0.0054	-0.0021	0.0000
2006	27-May	2	T	200	0.0000	0.0000	0.0000	0.0118	-0.0047	0.0000
2006	27-May	3	T	200	0.0000	0.0000	0.0000	0.0119	-0.0047	0.0000
2006	1-Jun	1	C	15	0.0000	0.0000	0.0000	0.0090	-0.0055	0.0000
2006	1-Jun	2	C	15	0.0000	0.0133	-0.0081	0.0000	0.0000	0.0000
2006	1-Jun	3	C	15	0.0000	0.0000	0.0000	0.0110	-0.0067	0.0000
2006	1-Jun	1	T	15	-0.0005	0.0123	-0.0074	0.0308	-0.0186	0.0516
2006	1-Jun	2	T	15	-0.0002	0.0127	-0.0077	0.0000	0.0000	0.0128
2006	1-Jun	3	T	15	0.0000	0.0000	0.0000	0.0072	-0.0043	0.0000
2006	1-Jun	1	C	30	-0.0003	0.0118	-0.0069	0.0000	0.0000	0.0222
2006	1-Jun	2	C	30	0.0000	0.0000	0.0000	0.0075	-0.0044	0.0000
2006	1-Jun	3	C	30	0.0000	0.0000	0.0000	0.0095	-0.0056	0.0000
2006	1-Jun	1	T	30	0.0000	0.0000	0.0000	0.0096	-0.0055	0.0000
2006	1-Jun	2	T	30	0.0000	0.0000	0.0000	0.0122	-0.0071	0.0000
2006	1-Jun	3	T	30	-0.0006	0.0000	0.0000	0.0160	-0.0093	0.0000
2006	1-Jun	1	C	60	0.0000	0.0000	0.0000	0.0096	-0.0055	0.0000
2006	1-Jun	2	C	60	0.0000	0.0194	-0.0111	0.0000	0.0000	0.0197
2006	1-Jun	3	C	60	0.0000	0.0000	0.0000	0.0116	-0.0066	0.0000
2006	1-Jun	1	T	60	0.0000	0.0000	0.0000	0.0086	-0.0050	0.0000
2006	1-Jun	2	T	60	0.0000	0.0000	0.0000	0.0113	-0.0065	0.0000
2006	1-Jun	3	T	60	0.0000	0.0000	0.0000	0.0089	-0.0051	0.0000
2006	1-Jun	1	C	120	0.0000	0.0000	0.0000	0.0082	-0.0049	0.0000
2006	1-Jun	2	C	120	-0.0003	0.0124	-0.0075	0.0000	0.0000	0.0181

year	date	rep	trt	depth	Cr2677	Cu3247	Cu3247	Fe2599	Fe2599	Fe2714
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	1-Jun	3	C	120	0.0000	0.0000	0.0000	0.0085	-0.0051	0.0000
2006	1-Jun	1	T	120	0.0000	0.0000	0.0000	0.0070	-0.0044	0.0000
2006	1-Jun	2	T	120	0.0000	0.0064	-0.0040	0.0115	-0.0071	0.0000
2006	1-Jun	3	T	120	0.0000	0.0000	0.0000	0.0077	-0.0048	0.0000
2006	1-Jun	1	C	200	-0.0008	0.0125	-0.0081	0.0000	0.0000	0.0078
2006	1-Jun	2	C	200	0.0000	0.0000	0.0000	0.0080	-0.0052	0.0000
2006	1-Jun	3	C	200	0.0000	0.0000	0.0000	0.0071	-0.0046	0.0000
2006	1-Jun	1	T	200	-0.0004	0.0000	0.0000	0.0056	-0.0036	0.0000
2006	1-Jun	2	T	200	-0.0002	0.0000	0.0000	0.0105	-0.0068	0.0000
2006	1-Jun	3	T	200	0.0000	0.0000	0.0000	0.0080	-0.0051	0.0000
2006	9-Jun	1	C	15	-0.0002	0.0000	0.0000	0.0072	-0.0043	0.0000
2006	9-Jun	2	C	15	0.0000	0.0072	-0.0043	0.0101	-0.0060	0.0015
2006	9-Jun	3	C	15	-0.0013	0.0288	-0.0171	0.0111	-0.0066	0.0321
2006	9-Jun	1	T	15	-0.0001	0.0154	-0.0093	0.0313	-0.0188	0.0285
2006	9-Jun	2	T	15	0.0000	0.0000	0.0000	0.0127	-0.0076	0.0000
2006	9-Jun	3	T	15	0.0000	0.0000	0.0000	0.0244	-0.0146	0.0000
2006	9-Jun	1	C	30	0.0000	0.0000	0.0000	0.0089	-0.0052	0.0000
2006	9-Jun	2	C	30	-0.0013	0.0139	-0.0082	0.0000	0.0000	0.0312
2006	9-Jun	3	C	30	0.0000	0.0080	-0.0047	0.0112	-0.0066	0.0097
2006	9-Jun	1	T	30	0.0000	0.0000	0.0000	0.0113	-0.0066	0.0000
2006	9-Jun	2	T	30	0.0000	0.0000	0.0000	0.0131	-0.0077	0.0000
2006	9-Jun	3	T	30	-0.0001	0.0000	0.0000	0.0149	-0.0088	0.0000
2006	9-Jun	1	C	60	0.0000	0.0000	0.0000	0.0081	-0.0046	0.0000
2006	9-Jun	2	C	60	-0.0002	0.0073	-0.0041	0.0094	-0.0053	0.0197
2006	9-Jun	3	C	60	0.0000	0.0070	-0.0040	0.0113	-0.0064	0.0003
2006	9-Jun	1	T	60	0.0000	0.0000	0.0000	0.0081	-0.0044	0.0000
2006	9-Jun	2	T	60	0.0000	0.0000	0.0000	0.0058	-0.0031	0.0000
2006	9-Jun	3	T	60	0.0000	0.0000	0.0000	0.0087	-0.0047	0.0000
2006	9-Jun	1	C	120	0.0000	0.0000	0.0000	0.0078	-0.0038	0.0000
2006	9-Jun	2	C	120	0.0000	0.0155	-0.0076	0.0109	-0.0054	0.0048
2006	9-Jun	3	C	120	0.0000	0.0097	-0.0048	0.0095	-0.0047	0.0222
2006	9-Jun	1	T	120	-0.0002	0.0000	0.0000	0.0071	-0.0033	0.0000
2006	9-Jun	2	T	120	0.0000	0.0088	-0.0041	0.0087	-0.0041	0.0000
2006	9-Jun	3	T	120	0.0000	0.0000	0.0000	0.0073	-0.0034	0.0000
2006	9-Jun	1	C	200	-0.0004	0.0087	-0.0039	0.0075	-0.0033	0.0285
2006	9-Jun	2	C	200	0.0000	0.0064	-0.0029	0.0083	-0.0037	0.0089
2006	9-Jun	3	C	200	-0.0001	0.0070	-0.0031	0.0083	-0.0037	0.0000
2006	9-Jun	1	T	200	0.0000	0.0000	0.0000	0.0068	-0.0033	0.0000
2006	9-Jun	2	T	200	0.0000	0.0000	0.0000	0.0082	-0.0040	0.0000
2006	9-Jun	3	T	200	-0.0002	0.0000	0.0000	0.0073	-0.0036	0.0000
2006	15-Jun	1	C	15	-0.0015	0.0102	-0.0046	0.0068	-0.0031	0.0665
2006	15-Jun	2	C	15	-0.0001	0.0142	-0.0064	0.0000	0.0000	0.0231
2006	15-Jun	3	C	15	-0.0001	0.0340	-0.0152	0.0105	-0.0047	0.0129
2006	15-Jun	1	T	15	-0.0006	0.0139	-0.0066	0.0000	0.0000	0.0155
2006	15-Jun	2	T	15	0.0000	0.0076	-0.0036	0.0147	-0.0069	0.0072
2006	15-Jun	3	T	15	-0.0001	0.0072	-0.0034	0.0108	-0.0051	0.0169

year	date	rep	trt	depth	Cr2677	Cu3247	Cu3247	Fe2599	Fe2599	Fe2714
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	15-Jun	1	C	30	-0.0004	0.0053	-0.0024	0.0112	-0.0051	0.0162
2006	15-Jun	2	C	30	-0.0001	0.0119	-0.0054	0.0000	0.0000	0.0208
2006	15-Jun	3	C	30	-0.0003	0.0092	-0.0042	0.0116	-0.0053	0.0268
2006	15-Jun	1	T	30	-0.0003	0.0085	-0.0040	0.0107	-0.0050	0.0092
2006	15-Jun	2	T	30	-0.0005	0.0076	-0.0036	0.0099	-0.0047	0.0280
2006	15-Jun	3	T	30	-0.0004	0.0117	-0.0055	0.0000	0.0000	0.0223
2006	15-Jun	1	C	60	-0.0004	0.0099	-0.0046	0.0096	-0.0044	0.0190
2006	15-Jun	2	C	60	0.0000	0.0056	-0.0026	0.0080	-0.0037	0.0017
2006	15-Jun	3	C	60	0.0000	0.0068	-0.0031	0.0120	-0.0055	0.0000
2006	15-Jun	1	T	60	-0.0010	0.0094	-0.0044	0.0089	-0.0042	0.0451
2006	15-Jun	2	T	60	0.0000	0.0046	-0.0022	0.0117	-0.0055	0.0000
2006	15-Jun	3	T	60	0.0000	0.0068	-0.0032	0.0085	-0.0040	0.0002
2006	15-Jun	1	C	120	-0.0009	0.0095	-0.0044	0.0080	-0.0037	0.0205
2006	15-Jun	2	C	120	-0.0003	0.0151	-0.0070	0.0123	-0.0057	0.0000
2006	15-Jun	3	C	120	-0.0003	0.0108	-0.0050	0.0084	-0.0039	0.0216
2006	15-Jun	1	T	120	0.0000	0.0098	-0.0048	0.0099	-0.0049	0.0092
2006	15-Jun	2	T	120	-0.0002	0.0214	-0.0106	0.0108	-0.0054	0.0031
2006	15-Jun	3	T	120	0.0000	0.0086	-0.0043	0.0110	-0.0055	0.0000
2006	15-Jun	1	C	200	0.0000	0.0069	-0.0034	0.0071	-0.0035	0.0055
2006	15-Jun	2	C	200	0.0000	0.0069	-0.0034	0.0081	-0.0039	0.0110
2006	15-Jun	3	C	200	-0.0002	0.0104	-0.0051	0.0092	-0.0045	0.0302
2006	15-Jun	1	T	200	-0.0016	0.0104	-0.0047	0.0062	-0.0028	0.0714
2006	15-Jun	2	T	200	-0.0001	0.0074	-0.0034	0.0079	-0.0036	0.0084
2006	15-Jun	3	T	200	0.0000	0.0079	-0.0036	0.0076	-0.0035	0.0102
2006	22-Jun	1	C	15	-0.0004	0.0070	-0.0031	0.0132	-0.0058	0.0000
2006	22-Jun	2	C	15	-0.0004	0.0065	-0.0029	0.0110	-0.0048	0.0224
2006	22-Jun	3	C	15	-0.0004	0.0171	-0.0075	0.0092	-0.0040	0.0283
2006	22-Jun	1	T	15	0.0000	0.0074	-0.0033	0.0118	-0.0052	0.0146
2006	22-Jun	2	T	15	0.0000	0.0066	-0.0029	0.0088	-0.0039	0.0058
2006	22-Jun	3	T	15	0.0000	0.0059	-0.0026	0.0085	-0.0038	0.0000
2006	22-Jun	1	C	30	-0.0002	0.0068	-0.0027	0.0091	-0.0037	0.0194
2006	22-Jun	2	C	30	0.0000	0.0065	-0.0026	0.0075	-0.0030	0.0016
2006	22-Jun	3	C	30	-0.0003	0.0081	-0.0032	0.0086	-0.0035	0.0254
2006	22-Jun	1	T	30	-0.0004	0.0083	-0.0034	0.0093	-0.0038	0.0290
2006	22-Jun	2	T	30	0.0000	0.0049	-0.0020	0.0136	-0.0055	0.0000
2006	22-Jun	3	T	30	-0.0005	0.0131	-0.0053	0.0000	0.0000	0.0218
2006	22-Jun	1	C	60	-0.0001	0.0066	-0.0023	0.0086	-0.0031	0.0109
2006	22-Jun	2	C	60	-0.0007	0.0092	-0.0033	0.0167	-0.0059	0.0281
2006	22-Jun	3	C	60	-0.0002	0.0065	-0.0023	0.0069	-0.0025	0.0245
2006	22-Jun	1	T	60	0.0000	0.0069	-0.0025	0.0094	-0.0034	0.0056
2006	22-Jun	2	T	60	-0.0006	0.0069	-0.0025	0.0099	-0.0036	0.0280
2006	22-Jun	3	T	60	-0.0008	0.0093	-0.0034	0.0151	-0.0054	0.0388
2006	22-Jun	1	C	120	0.0000	0.0094	-0.0032	0.0091	-0.0031	0.0076
2006	22-Jun	2	C	120	0.0000	0.0128	-0.0043	0.0070	-0.0024	0.0000
2006	22-Jun	3	C	120	-0.0003	0.0103	-0.0035	0.0105	-0.0035	0.0281
2006	22-Jun	1	T	120	-0.0003	0.0107	-0.0040	0.0084	-0.0031	0.0232

year	date	rep	trt	depth	Cr2677	Cu3247	Cu3247	Fe2599	Fe2599	Fe2714
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	22-Jun	2	T	120	0.0000	0.0225	-0.0084	0.0088	-0.0033	0.0000
2006	22-Jun	3	T	120	0.0000	0.0085	-0.0031	0.0088	-0.0033	0.0121
2006	22-Jun	1	C	200	-0.0006	0.0072	-0.0029	0.0059	-0.0024	0.0324
2006	22-Jun	2	C	200	-0.0004	0.0071	-0.0029	0.0071	-0.0029	0.0314
2006	22-Jun	3	C	200	-0.0003	0.0079	-0.0032	0.0073	-0.0030	0.0321
2006	22-Jun	1	T	200	-0.0012	0.0081	-0.0038	0.0062	-0.0029	0.0397
2006	22-Jun	2	T	200	0.0000	0.0069	-0.0033	0.0076	-0.0036	0.0000
2006	22-Jun	3	T	200	-0.0003	0.0089	-0.0042	0.0075	-0.0035	0.0154
2006	29-Jun	1	C	15	0.0000	0.0043	-0.0038	0.0088	-0.0078	0.0000
2006	29-Jun	2	C	15	-0.0007	0.0079	-0.0070	0.0107	-0.0095	0.0188
2006	29-Jun	3	C	15	-0.0011	0.1569	-0.1390	0.0079	-0.0070	0.0022
2006	29-Jun	1	T	15	-0.0006	0.0067	-0.0061	0.0073	-0.0067	0.0024
2006	29-Jun	2	T	15	-0.0005	0.0144	-0.0132	0.0000	0.0000	0.0287
2006	29-Jun	3	T	15	-0.0008	0.0065	-0.0060	0.0081	-0.0074	0.0128
2006	29-Jun	1	C	30	-0.0013	0.0081	-0.0072	0.0134	-0.0121	0.0266
2006	29-Jun	2	C	30	-0.0009	0.0083	-0.0075	0.0105	-0.0094	0.0107
2006	29-Jun	3	C	30	-0.0016	0.0096	-0.0086	0.0092	-0.0082	0.0404
2006	29-Jun	1	T	30	-0.0008	0.0074	-0.0068	0.0082	-0.0076	0.0120
2006	29-Jun	2	T	30	0.0000	0.0054	-0.0050	0.0116	-0.0108	0.0000
2006	29-Jun	3	T	30	-0.0015	0.0088	-0.0081	0.0145	-0.0134	0.0273
2006	29-Jun	1	C	60	-0.0016	0.0085	-0.0077	0.0117	-0.0106	0.0337
2006	29-Jun	2	C	60	-0.0005	0.0068	-0.0061	0.0068	-0.0062	0.0249
2006	29-Jun	3	C	60	-0.0012	0.0081	-0.0073	0.0073	-0.0066	0.0154
2006	29-Jun	1	T	60	0.0000	0.0082	-0.0075	0.0079	-0.0072	0.0100
2006	29-Jun	2	T	60	-0.0051	0.0139	-0.0127	0.0113	-0.0103	0.1080
2006	29-Jun	3	T	60	0.0000	0.0055	-0.0050	0.0121	-0.0111	0.0016
2006	29-Jun	1	C	120	0.0000	0.0085	-0.0074	0.0084	-0.0073	0.0040
2006	29-Jun	2	C	120	-0.0009	0.0136	-0.0117	0.0082	-0.0071	0.0309
2006	29-Jun	3	C	120	-0.0015	0.0134	-0.0115	0.0000	0.0000	0.0248
2006	29-Jun	1	T	120	-0.0020	0.0107	-0.0088	0.0064	-0.0052	0.0632
2006	29-Jun	2	T	120	-0.0010	0.0247	-0.0203	0.0077	-0.0063	0.0277
2006	29-Jun	3	T	120	0.0000	0.0074	-0.0061	0.0083	-0.0068	0.0000
2006	29-Jun	1	C	200	-0.0004	0.0062	-0.0049	0.0067	-0.0052	0.0285
2006	29-Jun	2	C	200	-0.0004	0.0072	-0.0057	0.0063	-0.0049	0.0060
2006	29-Jun	3	C	200	0.0000	0.0016	-0.0013	0.0071	-0.0056	0.0000
2006	29-Jun	1	T	200	-0.0010	0.0055	-0.0036	0.0035	-0.0023	0.0293
2006	29-Jun	2	T	200	-0.0003	0.0092	-0.0060	0.0073	-0.0048	0.0050
2006	29-Jun	3	T	200	0.0000	0.0074	-0.0049	0.0084	-0.0055	0.0251
2006	5-Jul	1	C	15	-0.0007	0.0088	-0.0051	0.0122	-0.0071	0.0374
2006	5-Jul	2	C	15	0.0000	0.0026	-0.0015	0.0000	0.0000	0.0000
2006	5-Jul	3	C	15	0.0000	0.0720	-0.0420	0.0000	0.0000	0.0000
2006	5-Jul	1	T	15	0.0000	0.0095	-0.0057	0.0000	0.0000	0.0043
2006	5-Jul	2	T	15	0.0000	0.0118	-0.0071	0.0000	0.0000	0.0266
2006	5-Jul	3	T	15	0.0000	0.0020	-0.0012	0.0000	0.0000	0.0000
2006	5-Jul	1	C	30	0.0000	0.0038	-0.0022	0.0000	0.0000	0.0000
2006	5-Jul	2	C	30	0.0000	0.0023	-0.0013	0.0000	0.0000	0.0000

year	date	rep	trt	depth	Cr2677	Cu3247	Cu3247	Fe2599	Fe2599	Fe2714
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	5-Jul	3	C	30	-0.0015	0.0088	-0.0050	0.0040	-0.0022	0.0523
2006	5-Jul	1	T	30	0.0000	0.0012	-0.0007	0.0000	0.0000	0.0000
2006	5-Jul	2	T	30	0.0000	0.0023	-0.0013	0.0000	0.0000	0.0000
2006	5-Jul	3	T	30	0.0000	0.0028	-0.0016	0.0001	-0.0001	0.0000
2006	5-Jul	1	C	60	0.0000	0.0027	-0.0014	0.0000	0.0000	0.0000
2006	5-Jul	2	C	60	0.0000	0.0038	-0.0020	0.0000	0.0000	0.0000
2006	5-Jul	3	C	60	0.0000	0.0012	-0.0006	0.0000	0.0000	0.0000
2006	5-Jul	1	T	60	-0.0003	0.0112	-0.0060	0.0000	0.0000	0.0124
2006	5-Jul	2	T	60	-0.0053	0.0198	-0.0108	0.0000	0.0000	0.1625
2006	5-Jul	3	T	60	0.0000	0.0023	-0.0012	0.0000	0.0000	0.0000
2006	5-Jul	1	C	120	0.0000	0.0040	-0.0019	0.0000	0.0000	0.0000
2006	5-Jul	2	C	120	-0.0002	0.0127	-0.0061	0.0000	0.0000	0.0109
2006	5-Jul	3	C	120	0.0000	0.0123	-0.0059	0.0000	0.0000	0.0000
2006	5-Jul	1	T	120	0.0000	0.0131	-0.0063	0.0000	0.0000	0.0040
2006	5-Jul	2	T	120	0.0000	0.0202	-0.0098	0.0016	-0.0008	0.0000
2006	5-Jul	3	T	120	0.0000	0.0032	-0.0015	0.0000	0.0000	0.0000
2006	5-Jul	1	C	200	0.0000	0.0008	-0.0004	0.0000	0.0000	0.0000
2006	5-Jul	2	C	200	0.0000	0.0007	-0.0003	0.0000	0.0000	0.0000
2006	5-Jul	3	C	200	0.0000	0.0028	-0.0013	0.0000	0.0000	0.0000
2006	5-Jul	1	T	200	0.0000	0.0013	-0.0006	0.0000	0.0000	0.0000
2006	5-Jul	2	T	200	0.0000	0.0029	-0.0014	0.0000	0.0000	0.0000
2006	5-Jul	3	T	200	-0.0010	0.0069	-0.0034	0.0000	0.0000	0.0394
2006	13-Jul	1	C	15						
2006	13-Jul	2	C	15	0.0000	0.0040	-0.0048	0.0000	0.0000	0.0000
2006	13-Jul	3	C	15	0.0000	0.0936	-0.1120	0.0000	0.0000	0.0000
2006	13-Jul	1	T	15	-0.0007	0.0105	-0.0129	0.0000	0.0000	0.0114
2006	13-Jul	2	T	15	0.0000	0.0043	-0.0053	0.0000	0.0000	0.0000
2006	13-Jul	3	T	15	0.0000	0.0048	-0.0059	0.0136	-0.0166	0.0000
2006	13-Jul	1	C	30	0.0000	0.0035	-0.0041	0.0000	0.0000	0.0000
2006	13-Jul	2	C	30	0.0000	0.0039	-0.0046	0.0000	0.0000	0.0000
2006	13-Jul	3	C	30	0.0000	0.0028	-0.0033	0.0000	0.0000	0.0000
2006	13-Jul	1	T	30	0.0000	0.0024	-0.0029	0.0000	0.0000	0.0000
2006	13-Jul	2	T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	13-Jul	3	T	30	0.0000	0.0034	-0.0041	0.0016	-0.0020	0.0000
2006	13-Jul	1	C	60	0.0000	0.0038	-0.0043	0.0000	0.0000	0.0000
2006	13-Jul	2	C	60	0.0000	0.0015	-0.0017	0.0000	0.0000	0.0000
2006	13-Jul	3	C	60	0.0000	0.0005	-0.0005	0.0000	0.0000	0.0000
2006	13-Jul	1	T	60	0.0000	0.0023	-0.0026	0.0000	0.0000	0.0000
2006	13-Jul	2	T	60	0.0000	0.0022	-0.0025	0.0010	-0.0012	0.0000
2006	13-Jul	3	T	60	0.0000	0.0073	-0.0084	0.0000	0.0000	0.0180
2006	13-Jul	1	C	120	0.0000	0.0041	-0.0043	0.0000	0.0000	0.0000
2006	13-Jul	2	C	120	-0.0021	0.0122	-0.0127	0.0028	-0.0030	0.0654
2006	13-Jul	3	C	120	-0.0001	0.0153	-0.0160	0.0000	0.0000	0.0264
2006	13-Jul	1	T	120	0.0000	0.0051	-0.0052	0.0000	0.0000	0.0000
2006	13-Jul	2	T	120	0.0000	0.0188	-0.0190	0.0000	0.0000	0.0000
2006	13-Jul	3	T	120	0.0000	0.0014	-0.0014	0.0000	0.0000	0.0000

year	date	rep	trt	depth	Cr2677	Cu3247	Cu3247	Fe2599	Fe2599	Fe2714
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	13-Jul	1	C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	13-Jul	2	C	200	0.0000	0.0028	-0.0028	0.0000	0.0000	0.0000
2006	13-Jul	3	C	200	0.0000	0.0041	-0.0041	0.0000	0.0000	0.0000
2006	13-Jul	1	T	200	0.0000	0.0014	-0.0013	0.0000	0.0000	0.0000
2006	13-Jul	2	T	200	0.0000	0.0036	-0.0034	0.0000	0.0000	0.0000
2006	13-Jul	3	T	200	0.0000	0.0031	-0.0029	0.0000	0.0000	0.0000
2006	20-Jul	1	C	15	0.0000	0.0007	-0.0003	0.0000	0.0000	0.0000
2006	20-Jul	2	C	15						
2006	20-Jul	3	C	15	0.0000	0.0051	-0.0021	0.0000	0.0000	0.0192
2006	20-Jul	1	T	15	-0.0001	0.0103	-0.0043	0.0000	0.0000	0.0000
2006	20-Jul	2	T	15	0.0000	0.0008	-0.0003	0.0000	0.0000	0.0000
2006	20-Jul	3	T	15	0.0000	0.0018	-0.0007	0.0000	0.0000	0.0000
2006	20-Jul	1	C	30	0.0000	0.0015	-0.0006	0.0000	0.0000	0.0000
2006	20-Jul	2	C	30	-0.0003	0.0121	-0.0049	0.0000	0.0000	0.0210
2006	20-Jul	3	C	30	0.0000	0.0016	-0.0007	0.0017	-0.0007	0.0000
2006	20-Jul	1	T	30	0.0000	0.0036	-0.0015	0.0000	0.0000	0.0000
2006	20-Jul	2	T	30	0.0000	0.0010	-0.0004	0.0000	0.0000	0.0000
2006	20-Jul	3	T	30	0.0000	0.0234	-0.0099	0.0000	0.0000	0.0330
2006	20-Jul	1	C	60	0.0000	0.0017	-0.0007	0.0000	0.0000	0.0000
2006	20-Jul	2	C	60	0.0000	0.0062	-0.0026	0.0016	-0.0007	0.0238
2006	20-Jul	3	C	60	0.0000	0.0037	-0.0015	0.0000	0.0000	0.0000
2006	20-Jul	1	T	60	0.0000	0.0022	-0.0010	0.0000	0.0000	0.0000
2006	20-Jul	2	T	60	-0.0011	0.0087	-0.0040	0.0066	-0.0030	0.0336
2006	20-Jul	3	T	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	20-Jul	1	C	120	0.0000	0.0028	-0.0013	0.0000	0.0000	0.0000
2006	20-Jul	2	C	120	0.0000	0.0165	-0.0078	0.0000	0.0000	0.0000
2006	20-Jul	3	C	120	-0.0002	0.0127	-0.0060	0.0000	0.0000	0.0204
2006	20-Jul	1	T	120	0.0000	0.0050	-0.0027	0.0000	0.0000	0.0000
2006	20-Jul	2	T	120	0.0000	0.0182	-0.0098	0.0000	0.0000	0.0000
2006	20-Jul	3	T	120	0.0000	0.0012	-0.0007	0.0000	0.0000	0.0000
2006	20-Jul	1	C	200	0.0000	0.0019	-0.0011	0.0000	0.0000	0.0000
2006	20-Jul	2	C	200	0.0000	0.0023	-0.0014	0.0000	0.0000	0.0000
2006	20-Jul	3	C	200	0.0000	0.0009	-0.0005	0.0000	0.0000	0.0000
2006	20-Jul	1	T	200	0.0000	0.0026	-0.0018	0.0000	0.0000	0.0000
2006	20-Jul	2	T	200	0.0000	0.0046	-0.0032	0.0000	0.0000	0.0109
2006	20-Jul	3	T	200	0.0000	0.0029	-0.0021	0.0000	0.0000	0.0000
2006	26-Jul	1	C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	26-Jul	2	C	15						
2006	26-Jul	3	C	15	-0.0028	0.0084	-0.0066	0.0000	0.0000	0.0517
2006	26-Jul	1	T	15	-0.0007	0.0125	-0.0097	0.0000	0.0000	0.0230
2006	26-Jul	2	T	15	-0.0005	0.0102	-0.0079	0.0000	0.0000	0.0062
2006	26-Jul	3	T	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	26-Jul	1	C	30	0.0000	0.0024	-0.0017	0.0030	-0.0022	0.0000
2006	26-Jul	2	C	30	-0.0026	0.0091	-0.0066	0.0000	0.0000	0.0490
2006	26-Jul	3	C	30	-0.0013	0.0072	-0.0052	0.0000	0.0000	0.0282
2006	26-Jul	1	T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

year	date	rep	trt	depth	Cr2677	Cu3247	Cu3247	Fe2599	Fe2599	Fe2714
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	26-Jul	2	T	30	0.0000	0.0023	-0.0017	0.0000	0.0000	0.0000
2006	26-Jul	3	T	30	0.0000	0.0027	-0.0020	0.0000	0.0000	0.0000
2006	26-Jul	1	C	60	0.0000	0.0024	-0.0015	0.0000	0.0000	0.0000
2006	26-Jul	2	C	60	-0.0023	0.0115	-0.0074	0.0073	-0.0047	0.0586
2006	26-Jul	3	C	60	-0.0016	0.0094	-0.0060	0.0000	0.0000	0.0388
2006	26-Jul	1	T	60	0.0000	0.0026	-0.0016	0.0000	0.0000	0.0000
2006	26-Jul	2	T	60	-0.0026	0.0096	-0.0059	0.0000	0.0000	0.0734
2006	26-Jul	3	T	60	0.0000	0.0006	-0.0004	0.0000	0.0000	0.0000
2006	26-Jul	1	C	120	0.0000	0.0044	-0.0022	0.0000	0.0000	0.0000
2006	26-Jul	2	C	120	-0.0017	0.0191	-0.0093	0.0000	0.0000	0.0627
2006	26-Jul	3	C	120	-0.0016	0.0092	-0.0045	0.0000	0.0000	0.0454
2006	26-Jul	1	T	120	0.0000	0.0045	-0.0019	0.0000	0.0000	0.0000
2006	26-Jul	2	T	120	0.0000	0.0207	-0.0089	0.0000	0.0000	0.0000
2006	26-Jul	3	T	120	0.0000	0.0010	-0.0004	0.0000	0.0000	0.0000
2006	26-Jul	1	C	200	-0.0005	0.0086	-0.0033	0.0000	0.0000	0.0209
2006	26-Jul	2	C	200	-0.0010	0.0081	-0.0031	0.0000	0.0000	0.0380
2006	26-Jul	3	C	200	-0.0020	0.0098	-0.0038	0.0000	0.0000	0.0612
2006	26-Jul	1	T	200	0.0000	0.0032	-0.0010	0.0000	0.0000	0.0000
2006	26-Jul	2	T	200	0.0000	0.0019	-0.0006	0.0000	0.0000	0.0000
2006	26-Jul	3	T	200	0.0000	0.0029	-0.0009	0.0000	0.0000	0.0000
2006	3-Aug	1	C	15	-0.0004	0.0082	-0.0012	0.0000	0.0000	0.0459
2006	3-Aug	2	C	15	-0.0001	0.0150	-0.0022	0.0000	0.0000	0.0394
2006	3-Aug	3	C	15	-0.0004	0.0117	-0.0017	0.0000	0.0000	0.0560
2006	3-Aug	1	T	15	-0.0001	0.0111	-0.0017	0.0000	0.0000	0.0081
2006	3-Aug	2	T	15	-0.0005	0.0099	-0.0015	0.0000	0.0000	0.0571
2006	3-Aug	3	T	15	-0.0004	0.0075	-0.0012	0.0000	0.0000	0.0340
2006	3-Aug	1	C	30	-0.0004	0.0083	-0.0012	0.0000	0.0000	0.0422
2006	3-Aug	2	C	30	-0.0005	0.0091	-0.0013	0.0000	0.0000	0.0581
2006	3-Aug	3	C	30	-0.0003	0.0075	-0.0010	0.0000	0.0000	0.0357
2006	3-Aug	1	T	30	-0.0003	0.0070	-0.0011	0.0000	0.0000	0.0406
2006	3-Aug	2	T	30	-0.0007	0.0125	-0.0019	0.0020	-0.0003	0.0668
2006	3-Aug	3	T	30	0.0000	0.0115	-0.0018	0.0000	0.0000	0.0182
2006	3-Aug	1	C	60	-0.0003	0.0088	-0.0012	0.0000	0.0000	0.0658
2006	3-Aug	2	C	60	-0.0004	0.0077	-0.0011	0.0000	0.0000	0.0486
2006	3-Aug	3	C	60	-0.0003	0.0076	-0.0011	0.0000	0.0000	0.0229
2006	3-Aug	1	T	60	0.0000	0.0069	-0.0012	0.0000	0.0000	0.0000
2006	3-Aug	2	T	60	-0.0004	0.0091	-0.0016	0.0000	0.0000	0.0406
2006	3-Aug	3	T	60	-0.0005	0.0076	-0.0014	0.0000	0.0000	0.0415
2006	3-Aug	1	C	120	-0.0006	0.0113	-0.0025	0.0000	0.0000	0.0417
2006	3-Aug	2	C	120	-0.0004	0.0185	-0.0042	0.0000	0.0000	0.0497
2006	3-Aug	3	C	120	0.0000	0.0163	-0.0037	0.0000	0.0000	0.0237
2006	3-Aug	1	T	120	-0.0011	0.0119	-0.0037	0.0000	0.0000	0.0538
2006	3-Aug	2	T	120	-0.0006	0.0230	-0.0071	0.0000	0.0000	0.0301
2006	3-Aug	3	T	120	-0.0006	0.0088	-0.0027	0.0000	0.0000	0.0303
2006	3-Aug	1	C	200	-0.0017	0.0119	-0.0049	0.0055	-0.0023	0.0534
2006	3-Aug	2	C	200	-0.0013	0.0093	-0.0038	0.0000	0.0000	0.0364

year	date	rep	trt	depth	Cr2677	Cu3247	Cu3247	Fe2599	Fe2599	Fe2714
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	3-Aug	3	C	200	-0.0011	0.0081	-0.0033	0.0000	0.0000	0.0254
2006	3-Aug	1	T	200	-0.0011	0.0070	-0.0036	0.0000	0.0000	0.0353
2006	3-Aug	2	T	200	-0.0011	0.0084	-0.0044	0.0000	0.0000	0.0241
2006	3-Aug	3	T	200	-0.0014	0.0079	-0.0041	0.0000	0.0000	0.0304
2006	10-Aug	1	C	15	-0.0008	0.0088	-0.0015	0.0044	-0.0008	0.0655
2006	10-Aug	2	C	15	-0.0006	0.0087	-0.0015	0.0000	0.0000	0.0501
2006	10-Aug	3	C	15	-0.0004	0.0046	-0.0008	0.0040	-0.0007	0.0494
2006	10-Aug	1	T	15	-0.0005	0.0088	-0.0015	0.0000	0.0000	0.0481
2006	10-Aug	2	T	15	-0.0006	0.0093	-0.0016	0.0000	0.0000	0.0503
2006	10-Aug	3	T	15	-0.0004	0.0076	-0.0013	0.0000	0.0000	0.0440
2006	10-Aug	1	C	30	-0.0005	0.0066	-0.0010	0.0000	0.0000	0.0312
2006	10-Aug	2	C	30	0.0000	0.0029	-0.0004	0.0000	0.0000	0.0000
2006	10-Aug	3	C	30	-0.0001	0.0114	-0.0017	0.0000	0.0000	0.0068
2006	10-Aug	1	T	30	-0.0006	0.0085	-0.0013	0.0000	0.0000	0.0596
2006	10-Aug	2	T	30	-0.0004	0.0089	-0.0014	0.0000	0.0000	0.0432
2006	10-Aug	3	T	30	-0.0006	0.0148	-0.0023	0.0000	0.0000	0.0632
2006	10-Aug	1	C	60	-0.0003	0.0081	-0.0009	0.0000	0.0000	0.0721
2006	10-Aug	2	C	60	-0.0004	0.0083	-0.0009	0.0000	0.0000	0.0665
2006	10-Aug	3	C	60	-0.0002	0.0051	-0.0005	0.0064	-0.0007	0.0337
2006	10-Aug	1	T	60	-0.0002	0.0083	-0.0009	0.0000	0.0000	0.0432
2006	10-Aug	2	T	60	-0.0002	0.0080	-0.0009	0.0000	0.0000	0.0292
2006	10-Aug	3	T	60	-0.0004	0.0097	-0.0011	0.0000	0.0000	0.0723
2006	10-Aug	1	C	120	-0.0002	0.0089	-0.0006	0.0000	0.0000	0.0261
2006	10-Aug	2	C	120	-0.0004	0.0203	-0.0014	0.0085	-0.0006	0.0741
2006	10-Aug	3	C	120	-0.0001	0.0060	-0.0004	0.0053	-0.0004	0.0266
2006	10-Aug	1	T	120	-0.0005	0.0156	-0.0015	0.0011	-0.0001	0.0832
2006	10-Aug	2	T	120	-0.0003	0.0233	-0.0022	0.0000	0.0000	0.0680
2006	10-Aug	3	T	120	-0.0003	0.0088	-0.0008	0.0000	0.0000	0.0382
2006	10-Aug	1	C	200	-0.0004	0.0072	-0.0010	0.0000	0.0000	0.0343
2006	10-Aug	2	C	200	-0.0005	0.0063	-0.0009	0.0036	-0.0005	0.0457
2006	10-Aug	3	C	200	-0.0011	0.0103	-0.0015	0.0125	-0.0018	0.1163
2006	10-Aug	1	T	200	-0.0007	0.0086	-0.0016	0.0000	0.0000	0.0863
2006	10-Aug	2	T	200	-0.0007	0.0083	-0.0016	0.0000	0.0000	0.0487
2006	10-Aug	3	T	200	-0.0005	0.0086	-0.0016	0.0000	0.0000	0.0693
2006	17-Aug	1	C	15	-0.0018	0.0022	-0.0018	0.0040	-0.0032	0.0152
2006	17-Aug	2	C	15	-0.0002	0.0115	-0.0092	0.0000	0.0000	0.0280
2006	17-Aug	3	C	15	-0.0018	0.0056	-0.0045	0.0030	-0.0024	0.0522
2006	17-Aug	1	T	15	-0.0028	0.0080	-0.0063	0.0066	-0.0052	0.0552
2006	17-Aug	2	T	15	-0.0029	0.0061	-0.0048	0.0035	-0.0028	0.0706
2006	17-Aug	3	T	15	-0.0029	0.0063	-0.0050	0.0051	-0.0041	0.0415
2006	17-Aug	1	C	30	-0.0021	0.0058	-0.0041	0.0038	-0.0027	0.0543
2006	17-Aug	2	C	30	-0.0025	0.0033	-0.0023	0.0056	-0.0040	0.0626
2006	17-Aug	3	C	30	-0.0025	0.0065	-0.0047	0.0036	-0.0025	0.0427
2006	17-Aug	1	T	30	-0.0025	0.0048	-0.0033	0.0030	-0.0020	0.0390
2006	17-Aug	2	T	30	-0.0051	0.0145	-0.0099	0.0138	-0.0094	0.1359
2006	17-Aug	3	T	30	-0.0018	0.0069	-0.0047	0.0043	-0.0029	0.0478

year	date	rep	trt	depth	Cr2677	Cu3247	Cu3247	Fe2599	Fe2599	Fe2714
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	17-Aug	1	C	60	-0.0018	0.0069	-0.0039	0.0060	-0.0034	0.0600
2006	17-Aug	2	C	60	-0.0014	0.0032	-0.0018	0.0048	-0.0027	0.0406
2006	17-Aug	3	C	60	-0.0010	0.0029	-0.0016	0.0060	-0.0034	0.0305
2006	17-Aug	1	T	60	-0.0020	0.0049	-0.0024	0.0044	-0.0022	0.0852
2006	17-Aug	2	T	60	-0.0016	0.0066	-0.0032	0.0091	-0.0045	0.0514
2006	17-Aug	3	T	60	-0.0013	0.0042	-0.0021	0.0063	-0.0031	0.0457
2006	17-Aug	1	C	120	-0.0004	0.0066	-0.0017	0.0035	-0.0009	0.0262
2006	17-Aug	2	C	120	-0.0008	0.0141	-0.0036	0.0051	-0.0013	0.0734
2006	17-Aug	3	C	120	-0.0001	0.0162	-0.0041	0.0000	0.0000	0.0132
2006	17-Aug	1	T	120	-0.0003	0.0058	-0.0008	0.0041	-0.0006	0.0221
2006	17-Aug	2	T	120	-0.0005	0.0216	-0.0031	0.0064	-0.0009	0.0456
2006	17-Aug	3	T	120	-0.0001	0.0050	-0.0007	0.0040	-0.0006	0.0276
2006	17-Aug	1	C	200	-0.0007	0.0106	-0.0011	0.0062	-0.0006	0.1362
2006	17-Aug	2	C	200	-0.0006	0.0085	-0.0009	0.0042	-0.0004	0.0861
2006	17-Aug	3	C	200	-0.0003	0.0035	-0.0004	0.0039	-0.0004	0.0525
2006	17-Aug	1	T	200	-0.0007	0.0068	-0.0009	0.0000	0.0000	0.0832
2006	17-Aug	2	T	200	-0.0001	0.0139	-0.0018	0.0000	0.0000	0.0262
2006	17-Aug	3	T	200	-0.0003	0.0061	-0.0008	0.0044	-0.0006	0.0500
2006	24-Aug	1	C	15	-0.0020	0.0041	-0.0024	0.0052	-0.0031	0.0407
2006	24-Aug	2	C	15	-0.0004	0.0112	-0.0066	0.0000	0.0000	0.0120
2006	24-Aug	3	C	15	-0.0013	0.0026	-0.0015	0.0049	-0.0029	0.0329
2006	24-Aug	1	T	15	-0.0025	0.0059	-0.0035	0.0043	-0.0025	0.0795
2006	24-Aug	2	T	15	-0.0015	0.0044	-0.0026	0.0043	-0.0025	0.0521
2006	24-Aug	3	T	15	-0.0014	0.0030	-0.0017	0.0056	-0.0033	0.0261
2006	24-Aug	1	C	30	-0.0033	0.0084	-0.0048	0.0138	-0.0078	0.1156
2006	24-Aug	2	C	30	-0.0009	0.0023	-0.0013	0.0049	-0.0028	0.0317
2006	24-Aug	3	C	30	-0.0024	0.0052	-0.0029	0.0037	-0.0021	0.0637
2006	24-Aug	1	T	30	-0.0012	0.0041	-0.0023	0.0042	-0.0024	0.0356
2006	24-Aug	2	T	30	-0.0011	0.0005	-0.0003	0.0043	-0.0025	0.0469
2006	24-Aug	3	T	30	-0.0014	0.0870	-0.0496	0.0108	-0.0061	0.0405
2006	24-Aug	1	C	60	-0.0022	0.0046	-0.0025	0.0052	-0.0028	0.0642
2006	24-Aug	2	C	60	-0.0018	0.0037	-0.0020	0.0031	-0.0017	0.0633
2006	24-Aug	3	C	60	-0.0014	0.0030	-0.0017	0.0033	-0.0018	0.0363
2006	24-Aug	1	T	60	0.0000	0.0000	0.0000	0.0051	-0.0028	0.0000
2006	24-Aug	2	T	60	-0.0023	0.0040	-0.0022	0.0063	-0.0034	0.0572
2006	24-Aug	3	T	60	-0.0013	0.0045	-0.0025	0.0059	-0.0032	0.0527
2006	24-Aug	1	C	120	-0.0017	0.0057	-0.0029	0.0029	-0.0015	0.0489
2006	24-Aug	2	C	120	-0.0017	0.0163	-0.0083	0.0046	-0.0024	0.0676
2006	24-Aug	3	C	120	-0.0017	0.0055	-0.0028	0.0047	-0.0024	0.0418
2006	24-Aug	1	T	120	-0.0004	0.0053	-0.0028	0.0086	-0.0044	0.0000
2006	24-Aug	2	T	120	-0.0016	0.0192	-0.0099	0.0040	-0.0021	0.0700
2006	24-Aug	3	T	120	-0.0015	0.0066	-0.0034	0.0031	-0.0016	0.0422
2006	24-Aug	1	C	200	-0.0017	0.0034	-0.0016	0.0047	-0.0022	0.0729
2006	24-Aug	2	C	200	-0.0015	0.0048	-0.0022	0.0034	-0.0016	0.0618
2006	24-Aug	3	C	200	-0.0018	0.0062	-0.0029	0.0160	-0.0073	0.0388
2006	24-Aug	1	T	200	-0.0003	0.0000	0.0000	0.0000	0.0000	0.0136

year	date	rep	trt	depth	Cr2677	Cu3247	Cu3247	Fe2599	Fe2599	Fe2714
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	24-Aug	2	T	200	-0.0002	0.0137	-0.0049	0.0000	0.0000	0.0382
2006	24-Aug	3	T	200	-0.0013	0.0069	-0.0025	0.0033	-0.0012	0.0572
2006	31-Aug	1	C	15	-0.0017	0.0049	-0.0023	0.0048	-0.0022	0.0767
2006	31-Aug	2	C	15						
2006	31-Aug	3	C	15	-0.0020	0.0041	-0.0019	0.0034	-0.0016	0.0740
2006	31-Aug	1	T	15	-0.0016	0.0045	-0.0022	0.0079	-0.0039	0.0587
2006	31-Aug	2	T	15	-0.0017	0.0027	-0.0013	0.0046	-0.0023	0.0456
2006	31-Aug	3	T	15	-0.0018	0.0040	-0.0020	0.0033	-0.0016	0.0600
2006	31-Aug	1	C	30	-0.0018	0.0031	-0.0016	0.0035	-0.0019	0.0509
2006	31-Aug	2	C	30	-0.0012	0.0011	-0.0006	0.0015	-0.0008	0.0223
2006	31-Aug	3	C	30	-0.0036	0.0118	-0.0062	0.0102	-0.0054	0.1169
2006	31-Aug	1	T	30	-0.0016	0.0025	-0.0014	0.0031	-0.0018	0.0501
2006	31-Aug	2	T	30	-0.0014	0.0054	-0.0031	0.0039	-0.0023	0.0407
2006	31-Aug	3	T	30						
2006	31-Aug	1	C	60	-0.0009	0.0016	-0.0011	0.0057	-0.0037	0.0220
2006	31-Aug	2	C	60	-0.0030	0.0035	-0.0023	0.0029	-0.0019	0.0549
2006	31-Aug	3	C	60	-0.0038	0.0046	-0.0030	0.0033	-0.0022	0.0845
2006	31-Aug	1	T	60	-0.0022	0.0031	-0.0022	0.0029	-0.0020	0.0493
2006	31-Aug	2	T	60	-0.0011	0.0032	-0.0023	0.0057	-0.0040	0.0463
2006	31-Aug	3	T	60	-0.0024	0.0040	-0.0028	0.0057	-0.0041	0.0375
2006	31-Aug	1	C	120	-0.0037	0.0079	-0.0063	0.0028	-0.0022	0.0852
2006	31-Aug	2	C	120	-0.0025	0.0138	-0.0110	0.0034	-0.0027	0.0464
2006	31-Aug	3	C	120	-0.0018	0.0037	-0.0029	0.0042	-0.0034	0.0301
2006	31-Aug	1	T	120	-0.0032	0.0065	-0.0053	0.0031	-0.0026	0.0621
2006	31-Aug	2	T	120	-0.0029	0.0164	-0.0135	0.0038	-0.0031	0.0552
2006	31-Aug	3	T	120	-0.0059	0.0074	-0.0061	0.0025	-0.0020	0.1058
2006	31-Aug	1	C	200	-0.0032	0.0045	-0.0036	0.0000	0.0000	0.0665
2006	31-Aug	2	C	200	-0.0030	0.0034	-0.0027	0.0016	-0.0012	0.0411
2006	31-Aug	3	C	200	-0.0038	0.0030	-0.0024	0.0019	-0.0015	0.0837
2006	31-Aug	1	T	200	-0.0031	0.0043	-0.0033	0.0001	-0.0001	0.0606
2006	31-Aug	2	T	200	0.0000	0.0123	-0.0092	0.0000	0.0000	0.0110
2006	31-Aug	3	T	200	-0.0013	0.0030	-0.0022	0.0041	-0.0031	0.0261
2006	7-Sep	1	C	15	-0.0003	0.0287	-0.0005	0.0025	0.0000	0.2742
2006	7-Sep	2	C	15	0.0000	0.0122	-0.0002	0.0000	0.0000	0.0133
2006	7-Sep	3	C	15	-0.0003	0.0265	-0.0005	0.0055	-0.0001	0.2567
2006	7-Sep	1	T	15	-0.0001	0.0020	0.0000	0.0263	-0.0006	0.0711
2006	7-Sep	2	T	15	-0.0001	0.0017	0.0000	0.0056	-0.0001	0.0444
2006	7-Sep	3	T	15	-0.0004	0.0271	-0.0006	0.0053	-0.0001	0.2854
2006	7-Sep	1	C	30	-0.0006	0.0361	-0.0010	0.0038	-0.0001	0.3714
2006	7-Sep	2	C	30	-0.0006	0.0346	-0.0010	0.0050	-0.0001	0.3524
2006	7-Sep	3	C	30	-0.0005	0.0320	-0.0009	0.0058	-0.0002	0.3131
2006	7-Sep	1	T	30	-0.0001	0.0012	0.0000	0.0037	-0.0001	0.0547
2006	7-Sep	2	T	30	-0.0002	0.0013	0.0000	0.0032	-0.0001	0.0732
2006	7-Sep	3	T	30	-0.0007	0.0330	-0.0012	0.0051	-0.0002	0.3217
2006	7-Sep	1	C	60	-0.0009	0.0324	-0.0015	0.0062	-0.0003	0.3287
2006	7-Sep	2	C	60	-0.0009	0.0309	-0.0015	0.0035	-0.0002	0.3550

year	date	rep	trt	depth	Cr2677	Cu3247	Cu3247	Fe2599	Fe2599	Fe2714
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	7-Sep	3	C	60	-0.0009	0.0300	-0.0014	0.0035	-0.0002	0.2864
2006	7-Sep	1	T	60	-0.0003	0.0031	-0.0002	0.0040	-0.0003	0.0563
2006	7-Sep	2	T	60	-0.0003	0.0041	-0.0003	0.0060	-0.0004	0.0681
2006	7-Sep	3	T	60	-0.0013	0.0307	-0.0021	0.0051	-0.0004	0.2924
2006	7-Sep	1	C	120	-0.0021	0.0312	-0.0040	0.0045	-0.0006	0.2874
2006	7-Sep	2	C	120	-0.0022	0.0465	-0.0059	0.0046	-0.0006	0.2883
2006	7-Sep	3	C	120	-0.0022	0.0300	-0.0038	0.0025	-0.0003	0.3091
2006	7-Sep	1	T	120	-0.0005	0.0053	-0.0010	0.0027	-0.0005	0.0755
2006	7-Sep	2	T	120	-0.0038	0.0492	-0.0091	0.0083	-0.0015	0.3118
2006	7-Sep	3	T	120	-0.0039	0.0380	-0.0070	0.0074	-0.0014	0.3351
2006	7-Sep	1	C	200	-0.0041	0.0277	-0.0068	0.0036	-0.0009	0.2793
2006	7-Sep	2	C	200	-0.0043	0.0312	-0.0077	0.0048	-0.0012	0.3050
2006	7-Sep	3	C	200	-0.0048	0.0332	-0.0082	0.0078	-0.0019	0.3241
2006	7-Sep	1	T	200	-0.0019	0.0031	-0.0010	0.0000	0.0000	0.1190
2006	7-Sep	2	T	200	-0.0062	0.0308	-0.0105	0.0037	-0.0013	0.3256
2006	7-Sep	3	T	200	-0.0056	0.0293	-0.0100	0.0059	-0.0020	0.2789
2006	14-Sep	1	C	15	-0.0013	0.0338	-0.0021	0.0099	-0.0006	0.3627
2006	14-Sep	2	C	15	-0.0011	0.0303	-0.0018	0.0055	-0.0003	0.3114
2006	14-Sep	3	C	15	-0.0011	0.0303	-0.0018	0.0114	-0.0007	0.3094
2006	14-Sep	1	T	15	-0.0010	0.0292	-0.0018	0.0190	-0.0012	0.2991
2006	14-Sep	2	T	15	-0.0011	0.0298	-0.0018	0.0045	-0.0003	0.2960
2006	14-Sep	3	T	15	-0.0011	0.0295	-0.0018	0.0035	-0.0002	0.3088
2006	14-Sep	1	C	30	-0.0013	0.0305	-0.0018	0.0041	-0.0002	0.3504
2006	14-Sep	2	C	30	-0.0010	0.0289	-0.0017	0.0037	-0.0002	0.2990
2006	14-Sep	3	C	30	-0.0012	0.0317	-0.0019	0.0049	-0.0003	0.3216
2006	14-Sep	1	T	30	-0.0012	0.0328	-0.0021	0.0036	-0.0002	0.3265
2006	14-Sep	2	T	30	-0.0012	0.0295	-0.0019	0.0044	-0.0003	0.3088
2006	14-Sep	3	T	30	-0.0011	0.0328	-0.0021	0.0044	-0.0003	0.3070
2006	14-Sep	1	C	60	-0.0011	0.0297	-0.0018	0.0057	-0.0003	0.3147
2006	14-Sep	2	C	60	-0.0008	0.0226	-0.0014	0.0049	-0.0003	0.2213
2006	14-Sep	3	C	60	-0.0014	0.0353	-0.0022	0.0076	-0.0005	0.3905
2006	14-Sep	1	T	60	-0.0014	0.0317	-0.0022	0.0034	-0.0002	0.3383
2006	14-Sep	2	T	60	-0.0012	0.0289	-0.0020	0.0048	-0.0003	0.3242
2006	14-Sep	3	T	60	-0.0013	0.0303	-0.0021	0.0048	-0.0003	0.2982
2006	14-Sep	1	C	120	-0.0014	0.0315	-0.0025	0.0041	-0.0003	0.2966
2006	14-Sep	2	C	120	-0.0015	0.0436	-0.0034	0.0028	-0.0002	0.3229
2006	14-Sep	3	C	120	0.0000	0.0136	-0.0011	0.0010	-0.0001	0.0285
2006	14-Sep	1	T	120	-0.0022	0.0358	-0.0037	0.0087	-0.0009	0.3527
2006	14-Sep	2	T	120	-0.0018	0.0432	-0.0044	0.0047	-0.0005	0.2949
2006	14-Sep	3	T	120	-0.0018	0.0321	-0.0033	0.0027	-0.0003	0.3070
2006	14-Sep	1	C	200	-0.0025	0.0288	-0.0038	0.0025	-0.0003	0.3134
2006	14-Sep	2	C	200	-0.0026	0.0306	-0.0040	0.0026	-0.0003	0.3189
2006	14-Sep	3	C	200	-0.0026	0.0300	-0.0039	0.0024	-0.0003	0.3286
2006	14-Sep	1	T	200	-0.0036	0.0295	-0.0052	0.0000	0.0000	0.3379
2006	14-Sep	2	T	200	-0.0032	0.0300	-0.0053	0.0038	-0.0007	0.2984
2006	14-Sep	3	T	200	-0.0033	0.0315	-0.0056	0.0033	-0.0006	0.3137

year	date	rep	trt	depth	Cr2677	Cu3247	Cu3247	Fe2599	Fe2599	Fe2714
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	21-Sep	1	C	15	-0.0011	0.0281	-0.0018	0.0033	-0.0002	0.3256
2006	21-Sep	2	C	15	0.0000	0.0142	-0.0009	0.0000	0.0000	0.0265
2006	21-Sep	3	C	15	-0.0013	0.0292	-0.0018	0.0059	-0.0004	0.3366
2006	21-Sep	1	T	15	-0.0012	0.0287	-0.0019	0.0176	-0.0012	0.2987
2006	21-Sep	2	T	15	-0.0013	0.0294	-0.0019	0.0050	-0.0003	0.3237
2006	21-Sep	3	T	15	-0.0015	0.0350	-0.0023	0.0124	-0.0008	0.3896
2006	21-Sep	1	C	30	-0.0014	0.0287	-0.0022	0.0022	-0.0002	0.3170
2006	21-Sep	2	C	30	-0.0015	0.0289	-0.0022	0.0020	-0.0002	0.3275
2006	21-Sep	3	C	30	-0.0016	0.0302	-0.0023	0.0053	-0.0004	0.3486
2006	21-Sep	1	T	30	-0.0015	0.0290	-0.0024	0.0023	-0.0002	0.3441
2006	21-Sep	2	T	30	-0.0017	0.0300	-0.0025	0.0048	-0.0004	0.3222
2006	21-Sep	3	T	30	-0.0016	0.0483	-0.0040	0.0077	-0.0006	0.3278
2006	21-Sep	1	C	60	-0.0018	0.0303	-0.0028	0.0029	-0.0003	0.3378
2006	21-Sep	2	C	60	-0.0018	0.0281	-0.0026	0.0034	-0.0003	0.3166
2006	21-Sep	3	C	60	-0.0018	0.0278	-0.0026	0.0051	-0.0005	0.3185
2006	21-Sep	1	T	60	-0.0020	0.0311	-0.0031	0.0034	-0.0003	0.3531
2006	21-Sep	2	T	60	-0.0019	0.0296	-0.0029	0.0061	-0.0006	0.3176
2006	21-Sep	3	T	60	-0.0019	0.0292	-0.0029	0.0054	-0.0005	0.3383
2006	21-Sep	1	C	120	-0.0019	0.0312	-0.0029	0.0030	-0.0003	0.3385
2006	21-Sep	2	C	120	-0.0023	0.0419	-0.0040	0.0162	-0.0015	0.3950
2006	21-Sep	3	C	120	-0.0002	0.0177	-0.0017	0.0084	-0.0008	0.0637
2006	21-Sep	1	T	120	-0.0019	0.0325	-0.0033	0.0034	-0.0003	0.3193
2006	21-Sep	2	T	120	-0.0020	0.0436	-0.0044	0.0032	-0.0003	0.3235
2006	21-Sep	3	T	120	-0.0019	0.0314	-0.0032	0.0015	-0.0001	0.3129
2006	21-Sep	1	C	200	-0.0020	0.0270	-0.0028	0.0018	-0.0002	0.3210
2006	21-Sep	2	C	200	-0.0021	0.0300	-0.0031	0.0031	-0.0003	0.3307
2006	21-Sep	3	C	200	-0.0022	0.0297	-0.0030	0.0020	-0.0002	0.3486
2006	21-Sep	1	T	200	-0.0023	0.0284	-0.0037	0.0023	-0.0003	0.3244
2006	21-Sep	2	T	200	-0.0024	0.0308	-0.0040	0.0017	-0.0002	0.2952
2006	21-Sep	3	T	200	-0.0019	0.0248	-0.0032	0.0035	-0.0005	0.2468
2006	28-Sep	1	C	15	-0.0003	0.0090	-0.0016	0.0033	-0.0006	0.0275
2006	28-Sep	2	C	15	-0.0001	0.0061	-0.0011	0.0136	-0.0025	0.0065
2006	28-Sep	3	C	15	0.0000	0.0045	-0.0008	0.0068	-0.0012	0.0000
2006	28-Sep	1	T	15	-0.0034	0.0275	-0.0049	0.0125	-0.0022	0.3102
2006	28-Sep	2	T	15	-0.0035	0.0278	-0.0049	0.0065	-0.0012	0.3200
2006	28-Sep	3	T	15	-0.0004	0.0104	-0.0018	0.0048	-0.0009	0.0242
2006	28-Sep	1	C	30	-0.0003	0.0110	-0.0017	0.0020	-0.0003	0.0470
2006	28-Sep	2	C	30	0.0000	0.0025	-0.0004	0.0060	-0.0009	0.0000
2006	28-Sep	3	C	30	-0.0005	0.0079	-0.0013	0.0052	-0.0008	0.0303
2006	28-Sep	1	T	30	-0.0032	0.0293	-0.0043	0.0029	-0.0004	0.3699
2006	28-Sep	2	T	30	-0.0003	0.0116	-0.0017	0.0073	-0.0011	0.0360
2006	28-Sep	3	T	30	-0.0003	0.0164	-0.0024	0.0047	-0.0007	0.0421
2006	28-Sep	1	C	60	-0.0001	0.0093	-0.0011	0.0101	-0.0012	0.0204
2006	28-Sep	2	C	60	0.0000	0.0046	-0.0006	0.0047	-0.0006	0.0000
2006	28-Sep	3	C	60	-0.0002	0.0061	-0.0007	0.0048	-0.0006	0.0079
2006	28-Sep	1	T	60	-0.0023	0.0276	-0.0031	0.0020	-0.0002	0.3223

year	date	rep	trt	depth	Cr2677	Cu3247	Cu3247	Fe2599	Fe2599	Fe2714
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	28-Sep	2	T	60	-0.0003	0.0117	-0.0013	0.0056	-0.0006	0.0459
2006	28-Sep	3	T	60	-0.0003	0.0125	-0.0014	0.0056	-0.0006	0.0432
2006	28-Sep	1	C	120	-0.0003	0.0099	-0.0008	0.0086	-0.0007	0.0372
2006	28-Sep	2	C	120	-0.0004	0.0224	-0.0019	0.0078	-0.0007	0.0307
2006	28-Sep	3	C	120	0.0000	0.0164	-0.0014	0.0000	0.0000	0.0165
2006	28-Sep	1	T	120	-0.0018	0.0307	-0.0028	0.0011	-0.0001	0.3279
2006	28-Sep	2	T	120	-0.0002	0.0245	-0.0022	0.0055	-0.0005	0.0371
2006	28-Sep	3	T	120	-0.0001	0.0135	-0.0012	0.0087	-0.0008	0.0578
2006	28-Sep	1	C	200	-0.0005	0.0086	-0.0008	0.0009	-0.0001	0.0608
2006	28-Sep	2	C	200	-0.0001	0.0058	-0.0005	0.0047	-0.0004	0.0152
2006	28-Sep	3	C	200	-0.0001	0.0049	-0.0005	0.0067	-0.0006	0.0000
2006	28-Sep	1	T	200	-0.0022	0.0285	-0.0032	0.0000	0.0000	0.3268
2006	28-Sep	2	T	200	-0.0002	0.0099	-0.0011	0.0019	-0.0002	0.0365
2006	28-Sep	3	T	200	-0.0002	0.0131	-0.0015	0.0031	-0.0004	0.0391
2006	5-Oct	1	C	15	-0.0006	0.0044	-0.0014	0.0055	-0.0018	0.0299
2006	5-Oct	2	C	15	-0.0001	0.0050	-0.0016	0.0109	-0.0036	0.0000
2006	5-Oct	3	C	15	0.0000	0.0099	-0.0033	0.0070	-0.0023	0.0000
2006	5-Oct	1	T	15	-0.0006	0.0049	-0.0015	0.0092	-0.0029	0.0000
2006	5-Oct	2	T	15	0.0000	0.0038	-0.0012	0.0061	-0.0019	0.0000
2006	5-Oct	3	T	15	0.0000	0.0061	-0.0019	0.0064	-0.0020	0.0105
2006	5-Oct	1	C	30	0.0000	0.0014	-0.0004	0.0057	-0.0016	0.0000
2006	5-Oct	2	C	30	-0.0008	0.0057	-0.0016	0.0050	-0.0014	0.0000
2006	5-Oct	3	C	30	-0.0007	0.0056	-0.0016	0.0040	-0.0012	0.0093
2006	5-Oct	1	T	30	-0.0022	0.0127	-0.0035	0.0103	-0.0028	0.1053
2006	5-Oct	2	T	30	0.0000	0.0020	-0.0005	0.0069	-0.0019	0.0000
2006	5-Oct	3	T	30	-0.0006	0.0488	-0.0134	0.0079	-0.0022	0.0048
2006	5-Oct	1	C	60	-0.0008	0.0046	-0.0011	0.0041	-0.0010	0.0323
2006	5-Oct	2	C	60	-0.0003	0.0043	-0.0010	0.0050	-0.0012	0.0000
2006	5-Oct	3	C	60	-0.0014	0.0072	-0.0017	0.0153	-0.0036	0.0468
2006	5-Oct	1	T	60	-0.0002	0.0049	-0.0011	0.0039	-0.0009	0.0000
2006	5-Oct	2	T	60	0.0000	0.0036	-0.0008	0.0077	-0.0017	0.0000
2006	5-Oct	3	T	60	-0.0003	0.0057	-0.0013	0.0047	-0.0011	0.0000
2006	5-Oct	1	C	120	-0.0001	0.0135	-0.0022	0.0000	0.0000	0.0172
2006	5-Oct	2	C	120	-0.0002	0.0104	-0.0017	0.0057	-0.0009	0.0000
2006	5-Oct	3	C	120	0.0000	0.0152	-0.0025	0.0000	0.0000	0.0273
2006	5-Oct	1	T	120	0.0000	0.0148	-0.0020	0.0000	0.0000	0.0178
2006	5-Oct	2	T	120	0.0000	0.0166	-0.0022	0.0049	-0.0007	0.0000
2006	5-Oct	3	T	120	-0.0001	0.0084	-0.0011	0.0048	-0.0006	0.0000
2006	5-Oct	1	C	200	-0.0002	0.0039	-0.0004	0.0035	-0.0003	0.0000
2006	5-Oct	2	C	200	0.0000	0.0013	-0.0001	0.0059	-0.0006	0.0000
2006	5-Oct	3	C	200	0.0000	0.0026	-0.0003	0.0050	-0.0005	0.0000
2006	5-Oct	1	T	200	-0.0006	0.0090	-0.0009	0.0000	0.0000	0.0657
2006	5-Oct	2	T	200	0.0000	0.0020	-0.0002	0.0056	-0.0006	0.0000
2006	5-Oct	3	T	200	-0.0010	0.0178	-0.0018	0.0082	-0.0009	0.1427
2006	12-Oct	1	C	15	-0.0002	0.0038	-0.0005	0.0071	-0.0010	0.0020
2006	12-Oct	2	C	15	-0.0004	0.0060	-0.0008	0.0077	-0.0011	0.0276

year	date	rep	trt	depth	Cr2677	Cu3247	Cu3247	Fe2599	Fe2599	Fe2714
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	12-Oct	3	C	15	-0.0003	0.0030	-0.0004	0.0071	-0.0010	0.0217
2006	12-Oct	1	T	15	-0.0001	0.0037	-0.0005	0.0090	-0.0012	0.0232
2006	12-Oct	2	T	15	-0.0001	0.0039	-0.0005	0.0059	-0.0008	0.0000
2006	12-Oct	3	T	15	-0.0007	0.0079	-0.0011	0.0194	-0.0026	0.0466
2006	12-Oct	1	C	30	-0.0003	0.0036	-0.0004	0.0054	-0.0006	0.0158
2006	12-Oct	2	C	30	0.0000	0.0022	-0.0003	0.0045	-0.0005	0.0000
2006	12-Oct	3	C	30	-0.0003	0.0042	-0.0005	0.0040	-0.0005	0.0299
2006	12-Oct	1	T	30	-0.0002	0.0043	-0.0005	0.0064	-0.0007	0.0000
2006	12-Oct	2	T	30	-0.0002	0.0027	-0.0003	0.0075	-0.0008	0.0043
2006	12-Oct	3	T	30	-0.0001	0.0141	-0.0016	0.0081	-0.0009	0.0000
2006	12-Oct	1	C	60	-0.0002	0.0036	-0.0004	0.0048	-0.0005	0.0111
2006	12-Oct	2	C	60	0.0000	0.0000	0.0000	0.0176	-0.0017	0.0000
2006	12-Oct	3	C	60	-0.0002	0.0031	-0.0003	0.0054	-0.0005	0.0179
2006	12-Oct	1	T	60	-0.0001	0.0020	-0.0002	0.0064	-0.0007	0.0000
2006	12-Oct	2	T	60	-0.0001	0.0029	-0.0003	0.0067	-0.0007	0.0000
2006	12-Oct	3	T	60	0.0000	0.0009	-0.0001	0.0064	-0.0007	0.0000
2006	12-Oct	1	C	120	-0.0002	0.0047	-0.0006	0.0048	-0.0006	0.0000
2006	12-Oct	2	C	120	-0.0003	0.0146	-0.0019	0.0032	-0.0004	0.0170
2006	12-Oct	3	C	120	-0.0001	0.0126	-0.0017	0.0000	0.0000	0.0187
2006	12-Oct	1	T	120	-0.0003	0.0085	-0.0013	0.0062	-0.0009	0.0533
2006	12-Oct	2	T	120	-0.0005	0.0180	-0.0027	0.0060	-0.0009	0.0264
2006	12-Oct	3	T	120	-0.0002	0.0062	-0.0009	0.0050	-0.0008	0.0020
2006	12-Oct	1	C	200	-0.0002	0.0024	-0.0003	0.0033	-0.0005	0.0132
2006	12-Oct	2	C	200	0.0000	0.0017	-0.0002	0.0050	-0.0007	0.0000
2006	12-Oct	3	C	200	-0.0002	0.0030	-0.0004	0.0009	-0.0001	0.0000
2006	12-Oct	1	T	200	-0.0006	0.0046	-0.0006	0.0040	-0.0005	0.0407
2006	12-Oct	2	T	200	0.0000	0.0040	-0.0005	0.0039	-0.0005	0.0000
2006	12-Oct	3	T	200	-0.0002	0.0032	-0.0004	0.0048	-0.0006	0.0000
2006	19-Oct	1	C	15	-0.0012	0.0016	-0.0007	0.0045	-0.0021	0.0000
2006	19-Oct	2	C	15	0.0000	0.0113	-0.0053	0.0000	0.0000	0.0160
2006	19-Oct	3	C	15	-0.0016	0.0116	-0.0054	0.0055	-0.0026	0.0548
2006	19-Oct	1	T	15	-0.0003	0.0000	0.0000	0.0041	-0.0018	0.0000
2006	19-Oct	2	T	15	-0.0019	0.0068	-0.0030	0.0193	-0.0085	0.0506
2006	19-Oct	3	T	15	-0.0009	0.0028	-0.0012	0.0067	-0.0030	0.0142
2006	19-Oct	1	C	30	-0.0015	0.0046	-0.0019	0.0064	-0.0026	0.0144
2006	19-Oct	2	C	30	-0.0011	0.0119	-0.0048	0.0023	-0.0009	0.0487
2006	19-Oct	3	C	30	-0.0014	0.0135	-0.0054	0.0029	-0.0012	0.0641
2006	19-Oct	1	T	30	-0.0009	0.0043	-0.0015	0.0058	-0.0020	0.0201
2006	19-Oct	2	T	30	-0.0012	0.0057	-0.0020	0.0049	-0.0017	0.0462
2006	19-Oct	3	T	30	-0.0003	0.0167	-0.0059	0.0000	0.0000	0.0130
2006	19-Oct	1	C	60	0.0000	0.0008	-0.0002	0.0048	-0.0013	0.0000
2006	19-Oct	2	C	60	-0.0007	0.0117	-0.0031	0.0031	-0.0008	0.0512
2006	19-Oct	3	C	60	-0.0007	0.0116	-0.0031	0.0018	-0.0005	0.0499
2006	19-Oct	1	T	60	-0.0001	0.0000	0.0000	0.0034	-0.0007	0.0005
2006	19-Oct	2	T	60	0.0000	0.0000	0.0000	0.0098	-0.0019	0.0000
2006	19-Oct	3	T	60	-0.0004	0.0039	-0.0008	0.0052	-0.0010	0.0221

year	date	rep	trt	depth	Cr2677	Cu3247	Cu3247	Fe2599	Fe2599	Fe2714
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	19-Oct	1	C	120	0.0000	0.0131	-0.0018	0.0000	0.0000	0.0247
2006	19-Oct	2	C	120	-0.0004	0.0181	-0.0025	0.0030	-0.0004	0.0631
2006	19-Oct	3	C	120	-0.0003	0.0152	-0.0021	0.0000	0.0000	0.0222
2006	19-Oct	1	T	120	-0.0003	0.0025	-0.0003	0.0035	-0.0005	0.0102
2006	19-Oct	2	T	120	-0.0001	0.0160	-0.0021	0.0049	-0.0006	0.0000
2006	19-Oct	3	T	120	-0.0003	0.0082	-0.0011	0.0019	-0.0002	0.0232
2006	19-Oct	1	C	200	-0.0005	0.0105	-0.0014	0.0019	-0.0003	0.0689
2006	19-Oct	2	C	200	-0.0004	0.0115	-0.0015	0.0027	-0.0004	0.0640
2006	19-Oct	3	C	200	-0.0003	0.0120	-0.0016	0.0008	-0.0001	0.0731
2006	19-Oct	1	T	200	-0.0002	0.0064	-0.0009	0.0051	-0.0007	0.0016
2006	19-Oct	2	T	200	-0.0003	0.0024	-0.0003	0.0029	-0.0004	0.0088
2006	19-Oct	3	T	200	-0.0001	0.0031	-0.0004	0.0048	-0.0006	0.0007
2006	26-Oct	1	C	15	0.0000	0.0043	-0.0070	0.0062	-0.0102	0.0000
2006	26-Oct	2	C	15	0.0000	0.0034	-0.0055	0.0061	-0.0100	0.0000
2006	26-Oct	3	C	15	0.0000	0.0051	-0.0084	0.0059	-0.0097	0.0000
2006	26-Oct	1	T	15	-0.0074	0.0111	-0.0183	0.0046	-0.0075	0.0649
2006	26-Oct	2	T	15	0.0000	0.0053	-0.0087	0.0079	-0.0130	0.0000
2006	26-Oct	3	T	15	0.0000	0.0054	-0.0088	0.0078	-0.0129	0.0000
2006	26-Oct	1	C	30	-0.0002	0.0101	-0.0168	0.0000	0.0000	0.0118
2006	26-Oct	2	C	30	0.0000	0.0053	-0.0088	0.0044	-0.0073	0.0105
2006	26-Oct	3	C	30	0.0000	0.0098	-0.0164	0.0000	0.0000	0.0013
2006	26-Oct	1	T	30	-0.0035	0.0119	-0.0201	0.0026	-0.0043	0.0563
2006	26-Oct	2	T	30	0.0000	0.0078	-0.0133	0.0075	-0.0128	0.0000
2006	26-Oct	3	T	30	0.0000	0.0063	-0.0108	0.0070	-0.0119	0.0000
2006	26-Oct	1	C	60	-0.0010	0.0105	-0.0177	0.0122	-0.0205	0.0286
2006	26-Oct	2	C	60	0.0000	0.0046	-0.0078	0.0059	-0.0099	0.0000
2006	26-Oct	3	C	60	0.0000	0.0044	-0.0073	0.0037	-0.0063	0.0000
2006	26-Oct	1	T	60	-0.0045	0.0099	-0.0173	0.0015	-0.0027	0.0626
2006	26-Oct	2	T	60	0.0000	0.0061	-0.0107	0.0095	-0.0167	0.0000
2006	26-Oct	3	T	60	0.0000	0.0040	-0.0070	0.0090	-0.0159	0.0000
2006	26-Oct	1	C	120	0.0000	0.0093	-0.0146	0.0043	-0.0068	0.0000
2006	26-Oct	2	C	120	0.0000	0.0111	-0.0176	0.0074	-0.0116	0.0000
2006	26-Oct	3	C	120	0.0000	0.0077	-0.0122	0.0060	-0.0095	0.0000
2006	26-Oct	1	T	120	0.0000	0.0092	-0.0146	0.0073	-0.0116	0.0084
2006	26-Oct	2	T	120	-0.0016	0.0238	-0.0379	0.0000	0.0000	0.0203
2006	26-Oct	3	T	120	0.0000	0.0067	-0.0107	0.0053	-0.0085	0.0000
2006	26-Oct	1	C	200	0.0000	0.0056	-0.0079	0.0054	-0.0077	0.0000
2006	26-Oct	2	C	200	-0.0004	0.0111	-0.0158	0.0000	0.0000	0.0270
2006	26-Oct	3	C	200	0.0000	0.0060	-0.0086	0.0048	-0.0069	0.0000
2006	26-Oct	1	T	200	-0.0019	0.0103	-0.0139	0.0019	-0.0025	0.0283
2006	26-Oct	2	T	200	-0.0006	0.0109	-0.0147	0.0000	0.0000	0.0077
2006	26-Oct	3	T	200	0.0000	0.0060	-0.0081	0.0058	-0.0078	0.0000
2006	2-Nov	1	C	15	0.0001	0.0093	0.0004	0.0103	0.0004	0.0365
2006	2-Nov	2	C	15	0.0000	0.0050	0.0002	0.0058	0.0002	0.0138
2006	2-Nov	3	C	15	0.0000	0.0035	0.0001	0.0057	0.0002	0.0000
2006	2-Nov	1	T	15	0.0000	0.0069	0.0002	0.0068	0.0002	0.0000

year	date	rep	trt	depth	Cr2677	Cu3247	Cu3247	Fe2599	Fe2599	Fe2714
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	2-Nov	2	T	15	0.0000	0.0061	0.0002	0.0065	0.0002	0.0000
2006	2-Nov	3	T	15	0.0000	0.0038	0.0001	0.0055	0.0002	0.0000
2006	2-Nov	1	C	30	0.0000	0.0051	0.0000	0.0074	0.0000	0.0132
2006	2-Nov	2	C	30	0.0000	0.0115	0.0000	0.0000	0.0000	0.0277
2006	2-Nov	3	C	30	0.0000	0.0051	0.0000	0.0114	0.0000	0.0187
2006	2-Nov	1	T	30	-0.0001	0.0097	-0.0003	0.0115	-0.0003	0.0411
2006	2-Nov	2	T	30	0.0000	0.0063	-0.0002	0.0060	-0.0002	0.0142
2006	2-Nov	3	T	30	0.0000	0.0117	-0.0004	0.0093	-0.0003	0.0000
2006	2-Nov	1	C	60	0.0000	0.0063	-0.0004	0.0077	-0.0005	0.0000
2006	2-Nov	2	C	60	-0.0001	0.0069	-0.0004	0.0047	-0.0003	0.0386
2006	2-Nov	3	C	60	0.0000	0.0042	-0.0003	0.0051	-0.0003	0.0000
2006	2-Nov	1	T	60	0.0000	0.0059	-0.0006	0.0086	-0.0009	0.0065
2006	2-Nov	2	T	60	0.0000	0.0050	-0.0005	0.0088	-0.0009	0.0000
2006	2-Nov	3	T	60	0.0000	0.0061	-0.0006	0.0074	-0.0007	0.0056
2006	2-Nov	1	C	120	0.0000	0.0059	-0.0008	0.0058	-0.0008	0.0000
2006	2-Nov	2	C	120	0.0000	0.0144	-0.0020	0.0060	-0.0008	0.0000
2006	2-Nov	3	C	120	-0.0001	0.0132	-0.0018	0.0000	0.0000	0.0192
2006	2-Nov	1	T	120	0.0000	0.0106	-0.0022	0.0058	-0.0012	0.0000
2006	2-Nov	2	T	120	0.0000	0.0194	-0.0040	0.0078	-0.0016	0.0022
2006	2-Nov	3	T	120	0.0000	0.0124	-0.0026	0.0028	-0.0006	0.0000
2006	2-Nov	1	C	200	0.0000	0.0037	-0.0010	0.0049	-0.0013	0.0000
2006	2-Nov	2	C	200	0.0000	0.0052	-0.0014	0.0048	-0.0013	0.0000
2006	2-Nov	3	C	200	0.0000	0.0000	0.0000	0.0164	-0.0045	0.0000
2006	2-Nov	1	T	200	0.0000	0.0048	-0.0018	0.0052	-0.0020	0.0136
2006	2-Nov	2	T	200	0.0000	0.0040	-0.0015	0.0047	-0.0018	0.0000
2006	2-Nov	3	T	200	0.0000	0.0099	-0.0038	0.0016	-0.0006	0.0000
2006	9-Nov	1	C	15	-0.0001	0.0047	-0.0023	0.0063	-0.0030	0.0000
2006	9-Nov	2	C	15	0.0000	0.0079	-0.0038	0.0000	0.0000	0.0104
2006	9-Nov	3	C	15	0.0000	0.0038	-0.0018	0.0044	-0.0021	0.0000
2006	9-Nov	1	T	15	0.0000	0.0049	-0.0022	0.0066	-0.0030	0.0000
2006	9-Nov	2	T	15	0.0000	0.0045	-0.0020	0.0071	-0.0032	0.0000
2006	9-Nov	3	T	15	-0.0002	0.0106	-0.0048	0.0000	0.0000	0.0198
2006	9-Nov	1	C	30	0.0000	0.0040	-0.0013	0.0067	-0.0022	0.0000
2006	9-Nov	2	C	30	0.0000	0.0043	-0.0014	0.0060	-0.0020	0.0000
2006	9-Nov	3	C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	9-Nov	1	T	30	-0.0004	0.0112	-0.0032	0.0000	0.0000	0.0328
2006	9-Nov	2	T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	9-Nov	3	T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	9-Nov	1	C	60	0.0000	0.0049	-0.0004	0.0062	-0.0005	0.0000
2006	9-Nov	2	C	60	-0.0001	0.0094	-0.0008	0.0000	0.0000	0.0239
2006	9-Nov	3	C	60	0.0000	0.0032	-0.0003	0.0089	-0.0007	0.0000
2006	9-Nov	1	T	60	0.0000	0.0096	-0.0003	0.0000	0.0000	0.0183
2006	9-Nov	2	T	60	0.0000	0.0106	-0.0003	0.0000	0.0000	0.0279
2006	9-Nov	3	T	60						
2006	9-Nov	1	C	120	0.0000	0.0106	-0.0001	0.0106	-0.0001	0.0411
2006	9-Nov	2	C	120	0.0000	0.0143	-0.0002	0.0053	-0.0001	0.0000

year	date	rep	trt	depth	Cr2677	Cu3247	Cu3247	Fe2599	Fe2599	Fe2714
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	9-Nov	3	C	120	0.0000	0.0020	0.0000	0.0062	-0.0001	0.0000
2006	9-Nov	1	T	120	0.0000	0.0080	-0.0003	0.0061	-0.0002	0.0036
2006	9-Nov	2	T	120	0.0000	0.0175	-0.0007	0.0075	-0.0003	0.0000
2006	9-Nov	3	T	120	0.0000	0.0056	-0.0002	0.0075	-0.0003	0.0000
2006	9-Nov	1	C	200	0.0000	0.0030	-0.0004	0.0048	-0.0006	0.0000
2006	9-Nov	2	C	200	0.0000	0.0042	-0.0005	0.0076	-0.0009	0.0000
2006	9-Nov	3	C	200	0.0000	0.0053	-0.0006	0.0035	-0.0004	0.0002
2006	9-Nov	1	T	200	0.0000	0.0044	-0.0007	0.0017	-0.0003	0.0150
2006	9-Nov	2	T	200	0.0000	0.0038	-0.0006	0.0036	-0.0006	0.0000
2006	9-Nov	3	T	200	0.0000	0.0046	-0.0008	0.0040	-0.0007	0.0068
2006	16-Nov	1	C	15	-0.0019	0.0086	-0.0051	0.0169	-0.0099	0.0637
2006	16-Nov	2	C	15	0.0000	0.0023	-0.0014	0.0047	-0.0027	0.0000
2006	16-Nov	3	C	15	-0.0003	0.0044	-0.0026	0.0051	-0.0030	0.0097
2006	16-Nov	1	T	15	-0.0003	0.0061	-0.0036	0.0041	-0.0025	0.0057
2006	16-Nov	2	T	15	0.0000	0.0047	-0.0028	0.0048	-0.0029	0.0118
2006	16-Nov	3	T	15	0.0000	0.0045	-0.0027	0.0056	-0.0034	0.0000
2006	16-Nov	1	C	30	-0.0002	0.0026	-0.0015	0.0068	-0.0038	0.0000
2006	16-Nov	2	C	30	0.0000	0.0035	-0.0019	0.0042	-0.0024	0.0000
2006	16-Nov	3	C	30	-0.0003	0.0028	-0.0016	0.0073	-0.0041	0.0094
2006	16-Nov	1	T	30	0.0000	0.0033	-0.0020	0.0057	-0.0035	0.0000
2006	16-Nov	2	T	30	0.0000	0.0047	-0.0028	0.0067	-0.0041	0.0201
2006	16-Nov	3	T	30	0.0000	0.0047	-0.0028	0.0050	-0.0030	0.0000
2006	16-Nov	1	C	60	-0.0001	0.0047	-0.0026	0.0049	-0.0027	0.0000
2006	16-Nov	2	C	60	0.0000	0.0010	-0.0006	0.0055	-0.0031	0.0000
2006	16-Nov	3	C	60	-0.0023	0.0135	-0.0075	0.0043	-0.0024	0.0630
2006	16-Nov	1	T	60	0.0000	0.0039	-0.0022	0.0025	-0.0014	0.0000
2006	16-Nov	2	T	60	0.0000	0.0033	-0.0019	0.0058	-0.0033	0.0000
2006	16-Nov	3	T	60	0.0000	0.0045	-0.0026	0.0070	-0.0040	0.0000
2006	16-Nov	1	C	120	0.0000	0.0057	-0.0014	0.0045	-0.0011	0.0053
2006	16-Nov	2	C	120	0.0000	0.0124	-0.0030	0.0056	-0.0014	0.0000
2006	16-Nov	3	C	120	-0.0006	0.0163	-0.0040	0.0032	-0.0008	0.0669
2006	16-Nov	1	T	120	-0.0002	0.0096	-0.0015	0.0182	-0.0029	0.0124
2006	16-Nov	2	T	120	0.0000	0.0164	-0.0026	0.0071	-0.0011	0.0000
2006	16-Nov	3	T	120	0.0000	0.0086	-0.0014	0.0064	-0.0010	0.0013
2006	16-Nov	1	C	200	0.0000	0.0040	-0.0003	0.0033	-0.0003	0.0187
2006	16-Nov	2	C	200	0.0000	0.0047	-0.0004	0.0063	-0.0005	0.0057
2006	16-Nov	3	C	200	-0.0001	0.0085	-0.0007	0.0019	-0.0002	0.0332
2006	16-Nov	1	T	200	-0.0002	0.0054	-0.0006	0.0012	-0.0001	0.0204
2006	16-Nov	2	T	200	0.0000	0.0021	-0.0002	0.0031	-0.0003	0.0000
2006	16-Nov	3	T	200	0.0000	0.0053	-0.0005	0.0041	-0.0004	0.0090
2006	23-Nov	1	C	15	-0.0003	0.0070	-0.0018	0.0000	0.0000	0.0214
2006	23-Nov	2	C	15	-0.0003	0.0065	-0.0017	0.0006	-0.0002	0.0066
2006	23-Nov	3	C	15	-0.0001	0.0107	-0.0027	0.0025	-0.0006	0.0181
2006	23-Nov	1	T	15	-0.0003	0.0105	-0.0028	0.0018	-0.0005	0.0101
2006	23-Nov	2	T	15	-0.0003	0.0100	-0.0026	0.0024	-0.0006	0.0291
2006	23-Nov	3	T	15	-0.0004	0.0083	-0.0022	0.0009	-0.0002	0.0310

year	date	rep	trt	depth	Cr2677	Cu3247	Cu3247	Fe2599	Fe2599	Fe2714
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	23-Nov	1	C	30	0.0000	0.0082	-0.0020	0.0041	-0.0010	0.0050
2006	23-Nov	2	C	30	-0.0018	0.0167	-0.0041	0.0007	-0.0002	0.1207
2006	23-Nov	3	C	30	-0.0004	0.0116	-0.0029	0.0045	-0.0011	0.0332
2006	23-Nov	1	T	30	-0.0001	0.0082	-0.0022	0.0009	-0.0002	0.0099
2006	23-Nov	2	T	30	0.0000	0.0071	-0.0019	0.0022	-0.0006	0.0000
2006	23-Nov	3	T	30	-0.0002	0.0079	-0.0021	0.0014	-0.0004	0.0060
2006	23-Nov	1	C	60	0.0000	0.0075	-0.0018	0.0019	-0.0005	0.0270
2006	23-Nov	2	C	60	-0.0003	0.0083	-0.0020	0.0008	-0.0002	0.0452
2006	23-Nov	3	C	60	-0.0005	0.0118	-0.0028	0.0027	-0.0006	0.0160
2006	23-Nov	1	T	60	-0.0006	0.0123	-0.0033	0.0078	-0.0021	0.0415
2006	23-Nov	2	T	60	0.0000	0.0095	-0.0025	0.0028	-0.0007	0.0000
2006	23-Nov	3	T	60	-0.0002	0.0084	-0.0022	0.0006	-0.0002	0.0164
2006	23-Nov	1	C	120	0.0000	0.0105	-0.0027	0.0010	-0.0002	0.0098
2006	23-Nov	2	C	120	-0.0001	0.0171	-0.0043	0.0000	0.0000	0.0088
2006	23-Nov	3	C	120	-0.0001	0.0125	-0.0032	0.0038	-0.0010	0.0000
2006	23-Nov	1	T	120	0.0000	0.0106	-0.0030	0.0010	-0.0003	0.0028
2006	23-Nov	2	T	120	-0.0001	0.0227	-0.0065	0.0014	-0.0004	0.0095
2006	23-Nov	3	T	120	0.0000	0.0134	-0.0039	0.0011	-0.0003	0.0000
2006	23-Nov	1	C	200	-0.0001	0.0083	-0.0021	0.0007	-0.0002	0.0316
2006	23-Nov	2	C	200	-0.0003	0.0090	-0.0022	0.0001	0.0000	0.0082
2006	23-Nov	3	C	200	-0.0003	0.0119	-0.0029	0.0000	0.0000	0.0208
2006	23-Nov	1	T	200	-0.0005	0.0106	-0.0020	0.0000	0.0000	0.0514
2006	23-Nov	2	T	200	-0.0008	0.0158	-0.0030	0.0063	-0.0012	0.0881
2006	23-Nov	3	T	200	-0.0004	0.0106	-0.0020	0.0005	-0.0001	0.0352
2006	30-Nov	1	C	15	-0.0008	0.0103	-0.0031	0.0126	-0.0038	0.0330
2006	30-Nov	2	C	15	-0.0005	0.0077	-0.0023	0.0019	-0.0006	0.0381
2006	30-Nov	3	C	15	-0.0003	0.0107	-0.0033	0.0013	-0.0004	0.0307
2006	30-Nov	1	T	15	-0.0002	0.0095	-0.0030	0.0027	-0.0009	0.0076
2006	30-Nov	2	T	15	-0.0001	0.0073	-0.0023	0.0004	-0.0001	0.0215
2006	30-Nov	3	T	15	-0.0004	0.0079	-0.0025	0.0003	-0.0001	0.0158
2006	30-Nov	1	C	30	-0.0005	0.0083	-0.0026	0.0039	-0.0012	0.0394
2006	30-Nov	2	C	30	-0.0003	0.0078	-0.0024	0.0000	0.0000	0.0000
2006	30-Nov	3	C	30	-0.0002	0.0069	-0.0021	0.0021	-0.0007	0.0149
2006	30-Nov	1	T	30	-0.0003	0.0064	-0.0020	0.0000	0.0000	0.0000
2006	30-Nov	2	T	30	-0.0004	0.0070	-0.0022	0.0023	-0.0007	0.0046
2006	30-Nov	3	T	30	-0.0009	0.0117	-0.0036	0.0079	-0.0025	0.0753
2006	30-Nov	1	C	60	-0.0004	0.0087	-0.0025	0.0009	-0.0003	0.0419
2006	30-Nov	2	C	60	-0.0002	0.0057	-0.0016	0.0000	0.0000	0.0128
2006	30-Nov	3	C	60	-0.0012	0.0126	-0.0036	0.0083	-0.0024	0.0856
2006	30-Nov	1	T	60	0.0000	0.0091	-0.0026	0.0012	-0.0003	0.0044
2006	30-Nov	2	T	60	-0.0004	0.0083	-0.0024	0.0009	-0.0002	0.0339
2006	30-Nov	3	T	60	-0.0002	0.0071	-0.0020	0.0016	-0.0005	0.0000
2006	30-Nov	1	C	120	-0.0002	0.0107	-0.0026	0.0043	-0.0010	0.0234
2006	30-Nov	2	C	120	-0.0003	0.0152	-0.0037	0.0008	-0.0002	0.0206
2006	30-Nov	3	C	120	0.0000	0.0091	-0.0022	0.0029	-0.0007	0.0030
2006	30-Nov	1	T	120	-0.0002	0.0116	-0.0027	0.0155	-0.0037	0.0072

year	date	rep	trt	depth	Cr2677	Cu3247	Cu3247	Fe2599	Fe2599	Fe2714
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	30-Nov	2	T	120	0.0000	0.0187	-0.0044	0.0038	-0.0009	0.0211
2006	30-Nov	3	T	120	0.0000	0.0110	-0.0026	0.0003	-0.0001	0.0089
2006	30-Nov	1	C	200	-0.0002	0.0079	-0.0018	0.0000	0.0000	0.0444
2006	30-Nov	2	C	200	0.0000	0.0084	-0.0019	0.0000	0.0000	0.0286
2006	30-Nov	3	C	200	0.0000	0.0087	-0.0020	0.0000	0.0000	0.0000
2006	30-Nov	1	T	200	-0.0009	0.0106	-0.0024	0.0000	0.0000	0.0822
2006	30-Nov	2	T	200	-0.0004	0.0112	-0.0025	0.0015	-0.0003	0.0329
2006	30-Nov	3	T	200	0.0000	0.0082	-0.0018	0.0014	-0.0003	0.0000
2006	7-Dec	1	T	15						
2006	7-Dec	2	T	15						
2006	7-Dec	3	T	15	0.0000	0.0094	-0.0008	0.0000	0.0000	0.0020
2006	7-Dec	1	C	30	0.0000	0.0086	-0.0001	0.0068	-0.0001	0.0453
2006	7-Dec	2	C	30	0.0000	0.0098	-0.0002	0.0000	0.0000	0.0196
2006	7-Dec	3	C	30						
2006	7-Dec	1	T	30	0.0000	0.0072	0.0001	0.0006	0.0000	0.0136
2006	7-Dec	2	T	30	0.0000	0.0070	0.0001	0.0034	0.0000	0.0000
2006	7-Dec	3	T	30	0.0000	0.0181	0.0001	0.0000	0.0000	0.0291
2006	7-Dec	1	C	60	0.0000	0.0091	0.0001	0.0009	0.0000	0.0404
2006	7-Dec	2	C	60	0.0000	0.0077	0.0001	0.0000	0.0000	0.0167
2006	7-Dec	3	C	60	0.0000	0.0090	0.0001	0.0012	0.0000	0.0360
2006	7-Dec	1	T	60	0.0000	0.0083	-0.0001	0.0021	0.0000	0.0415
2006	7-Dec	2	T	60	0.0000	0.0077	-0.0001	0.0032	0.0000	0.0009
2006	7-Dec	3	T	60	0.0000	0.0084	-0.0001	0.0017	0.0000	0.0000
2006	7-Dec	1	C	120	0.0000	0.0081	-0.0005	0.0109	-0.0007	0.0056
2006	7-Dec	2	C	120	-0.0001	0.0231	-0.0015	0.0008	-0.0001	0.0551
2006	7-Dec	3	C	120	0.0000	0.0110	-0.0007	0.0000	0.0000	0.0165
2006	7-Dec	1	T	120	-0.0001	0.0103	-0.0011	0.0000	0.0000	0.0347
2006	7-Dec	2	T	120	-0.0001	0.0210	-0.0022	0.0014	-0.0002	0.0260
2006	7-Dec	3	T	120	-0.0002	0.0215	-0.0023	0.0135	-0.0014	0.0422
2006	7-Dec	1	C	200	-0.0005	0.0081	-0.0014	0.0000	0.0000	0.0348
2006	7-Dec	2	C	200	-0.0006	0.0082	-0.0014	0.0000	0.0000	0.0366
2006	7-Dec	3	C	200	-0.0001	0.0069	-0.0012	0.0000	0.0000	0.0139
2006	7-Dec	1	T	200	-0.0005	0.0089	-0.0018	0.0000	0.0000	0.0460
2006	7-Dec	2	T	200	-0.0003	0.0083	-0.0017	0.0001	0.0000	0.0302
2006	7-Dec	3	T	200	-0.0006	0.0106	-0.0022	0.0021	-0.0004	0.0226
2006	14-Dec	1	C	15	0.0000	0.0105	0.0002	0.0000	0.0000	0.0372
2006	14-Dec	2	C	15	0.0000	0.0116	0.0003	0.0000	0.0000	0.0232
2006	14-Dec	3	C	15	0.0000	0.0095	0.0002	0.0007	0.0000	0.0250
2006	14-Dec	1	T	15	0.0000	0.0085	0.0000	0.0003	0.0000	0.0000
2006	14-Dec	2	T	15	0.0000	0.0091	0.0000	0.0002	0.0000	0.0139
2006	14-Dec	3	T	15	0.0000	0.0075	0.0000	0.0006	0.0000	0.0274
2006	14-Dec	1	C	30	0.0000	0.0098	-0.0002	0.0013	0.0000	0.0263
2006	14-Dec	2	C	30	0.0000	0.0098	-0.0002	0.0000	0.0000	0.0536
2006	14-Dec	3	C	30	0.0000	0.0239	-0.0006	0.0000	0.0000	0.0413
2006	14-Dec	1	T	30	-0.0001	0.0094	-0.0009	0.0000	0.0000	0.0174
2006	14-Dec	2	T	30	-0.0002	0.0089	-0.0008	0.0023	-0.0002	0.0372

year	date	rep	trt	depth	Cr2677	Cu3247	Cu3247	Fe2599	Fe2599	Fe2714
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	14-Dec	3	T	30	0.0000	0.0093	-0.0009	0.0012	-0.0001	0.0209
2006	14-Dec	1	C	60	0.0000	0.0098	-0.0009	0.0003	0.0000	0.0416
2006	14-Dec	2	C	60	-0.0001	0.0083	-0.0007	0.0000	0.0000	0.0245
2006	14-Dec	3	C	60	0.0000	0.0114	-0.0010	0.0008	-0.0001	0.0173
2006	14-Dec	1	T	60	-0.0005	0.0144	-0.0012	0.0121	-0.0010	0.0735
2006	14-Dec	2	T	60	-0.0003	0.0085	-0.0007	0.0000	0.0000	0.0613
2006	14-Dec	3	T	60	-0.0001	0.0079	-0.0007	0.0000	0.0000	0.0244
2006	14-Dec	1	C	120	0.0000	0.0117	-0.0006	0.0032	-0.0002	0.0318
2006	14-Dec	2	C	120	-0.0001	0.0202	-0.0010	0.0013	-0.0001	0.0750
2006	14-Dec	3	C	120	-0.0003	0.0195	-0.0010	0.0156	-0.0008	0.0936
2006	14-Dec	1	T	120	-0.0001	0.0098	-0.0006	0.0000	0.0000	0.0472
2006	14-Dec	2	T	120	-0.0001	0.0217	-0.0013	0.0008	0.0000	0.0496
2006	14-Dec	3	T	120	0.0000	0.0113	-0.0007	0.0000	0.0000	0.0000
2006	14-Dec	1	C	200	-0.0008	0.0174	-0.0017	0.0008	-0.0001	0.1443
2006	14-Dec	2	C	200	0.0000	0.0146	-0.0014	0.0013	-0.0001	0.0443
2006	14-Dec	3	C	200	0.0000	0.0109	-0.0011	0.0046	-0.0004	0.0462
2006	14-Dec	1	T	200	-0.0003	0.0079	-0.0010	0.0000	0.0000	0.0322
2006	14-Dec	2	T	200	-0.0003	0.0085	-0.0011	0.0020	-0.0003	0.0259
2006	14-Dec	3	T	200	-0.0003	0.0119	-0.0015	0.0000	0.0000	0.0429

year	date	rep	trt	depth	Fe2714	K_4047	K_4047	K_7664	K_7664	Mg2790
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			cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	21-Apr	1 C	15	0.0000	0.0000	0.0000	0.6028	-0.0470	0.1733
2006	21-Apr	2 C	15	0.0000	1.7625	-0.1376	2.4669	-0.1925	1.1527
2006	21-Apr	3 C	15	0.0000	11.1551	-0.8706	10.5562	-0.8239	0.8852
2006	21-Apr	1 T	15	0.0000	4.5084	-0.3215	3.3987	-0.2423	0.6398
2006	21-Apr	2 T	15	-0.0011	17.5831	-1.2537	23.4040	-1.6688	2.7425
2006	21-Apr	3 T	15	0.0000	0.0000	0.0000	1.3938	-0.0994	0.1306
2006	21-Apr	1 C	30	-0.0014	0.0000	0.0000	1.6539	-0.0688	1.7367
2006	21-Apr	2 C	30	0.0000	0.1963	-0.0082	2.8967	-0.1204	0.3381
2006	21-Apr	3 C	30						
2006	21-Apr	1 T	30	0.0000	1.5292	-0.0563	0.6988	-0.0257	0.0895
2006	21-Apr	2 T	30						
2006	21-Apr	3 T	30	-0.0005	0.0000	0.0000	0.9603	-0.0354	0.4301
2006	21-Apr	1 C	60						
2006	21-Apr	2 C	60	-0.0001	0.0000	0.0000	1.7295	-0.0380	0.3756
2006	21-Apr	3 C	60	0.0000	0.0000	0.0000	2.9672	-0.0653	1.2187
2006	27-Apr	1 C	15	0.0000	0.0000	0.0000	0.9641	-1.1110	0.3272
2006	27-Apr	2 C	15	-0.0259	0.0000	0.0000	3.0298	-3.4913	1.6483
2006	27-Apr	3 C	15	0.0000	0.1257	-0.1448	3.2754	-3.7743	1.4099
2006	27-Apr	1 T	15	0.0000	2.8394	-3.2356	3.4820	-3.9679	0.5484
2006	27-Apr	2 T	15	0.0000	19.2289	-21.9125	15.4892	-17.6508	1.5202
2006	27-Apr	3 T	15	0.0000	0.0000	0.0000	2.6275	-2.9942	0.2417
2006	27-Apr	1 C	30	0.0000	0.0000	0.0000	2.5669	-2.7831	1.7519
2006	27-Apr	2 C	30	0.0000	0.0000	0.0000	3.5416	-3.8399	0.2403
2006	27-Apr	3 C	30	0.0000	0.9563	-1.0369	5.2656	-5.7091	1.5897
2006	27-Apr	1 T	30	0.0000	0.0000	0.0000	2.4315	-2.5829	0.7400
2006	27-Apr	2 T	30	0.0000	10.6375	-11.2998	10.5538	-11.2110	3.2007
2006	27-Apr	3 T	30	0.0000	0.0000	0.0000	4.3330	-4.6027	2.2219
2006	27-Apr	1 C	60	0.0000	1.6253	-1.4750	4.1444	-3.7613	2.4530
2006	27-Apr	2 C	60	0.0000	0.0000	0.0000	1.3312	-1.2082	0.3340
2006	27-Apr	3 C	60	0.0000	0.0923	-0.0838	2.7559	-2.5011	0.9213
2006	27-Apr	1 T	60	0.0000	3.3560	-2.6947	1.3567	-1.0894	0.3899
2006	27-Apr	2 T	60	-0.0069	3.0516	-2.4503	1.5147	-1.2162	6.7717
2006	27-Apr	3 T	60	0.0000	0.0000	0.0000	2.2480	-1.8051	1.0279
2006	27-Apr	1 C	120	0.0000	0.0000	0.0000	1.2115	-0.4711	0.8957
2006	27-Apr	2 C	120	0.0000	0.0000	0.0000	1.4336	-0.5575	1.1260
2006	27-Apr	3 C	120	-0.0045	0.0000	0.0000	0.7119	-0.2769	1.8113
2006	27-Apr	1 T	120	0.0000	0.0000	0.0000	1.3756	-0.1959	0.8250
2006	27-Apr	2 T	120						
2006	27-Apr	3 T	120	0.0000	0.0000	0.0000	1.2773	-0.1819	0.2280
2006	27-Apr	1 C	200	0.0000	0.0000	0.0000	0.2063	-0.0007	0.0778
2006	27-Apr	2 C	200	0.0000	1.6609	-0.0055	0.2546	-0.0008	0.2118
2006	27-Apr	3 C	200	0.0000	0.0000	0.0000	0.3656	-0.0012	0.1898
2006	27-Apr	1 T	200	0.0000	0.0000	0.0000	0.1240	-0.0003	0.0646
2006	27-Apr	2 T	200						
2006	27-Apr	3 T	200	0.0000	0.0000	0.0000	1.0384	-0.0022	0.2338
2006	4-May	1 C	15	0.0000	0.0000	0.0000	1.1555	-0.5314	1.0000
2006	4-May	2 C	15	0.0000	0.0000	0.0000	4.2138	-1.9378	1.2060

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			cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	4-May	3 C	15	0.0000	0.0000	0.0000	3.2073	-1.4750	1.5558
2006	4-May	1 T	15	0.0000	19.6575	-9.6419	18.5818	-9.1142	7.4648
2006	4-May	2 T	15	-0.0171	3.3220	-1.6294	6.0224	-2.9539	1.9029
2006	4-May	3 T	15	0.0000	2.6519	-1.3007	10.5211	-5.1605	3.1417
2006	4-May	1 C	30	0.0000	0.0000	0.0000	2.3307	-1.0657	1.4995
2006	4-May	2 C	30	0.0000	0.0000	0.0000	4.0312	-1.8432	0.3515
2006	4-May	3 C	30	0.0000	11.6242	-5.3150	5.2143	-2.3842	1.6025
2006	4-May	1 T	30	0.0000	0.0000	0.0000	2.5911	-1.2348	0.6641
2006	4-May	2 T	30	-0.0095	12.6952	-6.0497	12.3812	-5.9001	3.5272
2006	4-May	3 T	30	0.0000	0.6835	-0.3257	4.2841	-2.0415	1.8254
2006	4-May	1 C	60	0.0000	0.0000	0.0000	4.8456	-2.2138	2.3250
2006	4-May	2 C	60	0.0000	0.0000	0.0000	1.3444	-0.6142	0.2666
2006	4-May	3 C	60	0.0000	0.0000	0.0000	2.7602	-1.2611	0.9141
2006	4-May	1 T	60	0.0000	0.0000	0.0000	2.7302	-1.2527	0.9468
2006	4-May	2 T	60	0.0000	0.0000	0.0000	2.1370	-0.9805	6.5971
2006	4-May	3 T	60	0.0000	0.3654	-0.1677	4.4469	-2.0403	1.1983
2006	4-May	1 C	120	0.0000	0.0000	0.0000	1.9428	-0.8500	1.6555
2006	4-May	2 C	120	0.0000	0.0000	0.0000	1.5642	-0.6844	0.6022
2006	4-May	3 C	120	0.0000	0.0000	0.0000	2.1203	-0.9276	1.8413
2006	4-May	1 T	120	0.0000	0.0000	0.0000	1.4042	-0.5995	0.7409
2006	4-May	2 T	120						
2006	4-May	3 T	120	0.0000	0.0000	0.0000	1.1649	-0.4973	0.4247
2006	4-May	1 C	200	0.0000	0.0000	0.0000	0.9811	-0.0837	0.0265
2006	4-May	2 C	200	0.0000	0.0000	0.0000	0.9957	-0.0849	0.1240
2006	4-May	3 C	200	0.0000	0.0000	0.0000	1.3088	-0.1116	0.1683
2006	4-May	1 T	200	0.0000	0.0000	0.0000	0.8736	-0.0025	0.0207
2006	4-May	2 T	200						
2006	4-May	3 T	200	0.0000	0.0000	0.0000	0.2331	-0.0007	0.2166
2006	12-May	1 C	15	0.0000	0.0000	0.0000	1.6909	-1.4772	1.4642
2006	12-May	2 C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	3 C	15	0.0000	0.0000	0.0000	2.9067	-2.5393	1.5176
2006	12-May	1 T	15	0.0000	179.7690	-156.4894	153.5321	-133.6501	46.6435
2006	12-May	2 T	15	-0.0079	1.9789	-1.7226	4.1726	-3.6322	2.4435
2006	12-May	3 T	15	0.0000	29.4322	-25.6208	29.4891	-25.6703	6.6214
2006	12-May	1 C	30	0.0000	0.0000	0.0000	3.3574	-2.9097	3.3016
2006	12-May	2 C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	3 C	30	0.0000	2.1273	-1.8436	8.6972	-7.5374	1.9687
2006	12-May	1 T	30	0.0000	0.0000	0.0000	5.1722	-4.4998	1.7971
2006	12-May	2 T	30	0.0000	7.7512	-6.7436	14.1093	-12.2750	3.1243
2006	12-May	3 T	30	0.0000	0.0000	0.0000	4.4443	-3.8666	1.6195
2006	12-May	1 C	60	0.0000	2.3852	-2.0732	5.4370	-4.7259	1.8788
2006	12-May	2 C	60	0.0000	0.0000	0.0000	3.0454	-2.6471	1.0985
2006	12-May	3 C	60	0.0000	0.0000	0.0000	2.9199	-2.5380	0.7703
2006	12-May	1 T	60	0.0000	0.0000	0.0000	3.3363	-2.8855	1.1489
2006	12-May	2 T	60	0.0000	0.0000	0.0000	2.4727	-2.1386	6.3265
2006	12-May	3 T	60	0.0000	0.0000	0.0000	6.2388	-5.3960	1.3841

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			cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	12-May	1 C	120	0.0000	0.0000	0.0000	2.4380	-2.1523	1.4698
2006	12-May	2 C	120						
2006	12-May	3 C	120	0.0000	0.0000	0.0000	1.5365	-1.3565	1.3162
2006	12-May	1 T	120	0.0000	0.0000	0.0000	1.6200	-1.4783	0.6537
2006	12-May	2 T	120	-0.0201	3.1023	-2.8309	1.4261	-1.3013	1.4670
2006	12-May	3 T	120	0.0000	0.0000	0.0000	1.2180	-1.1114	0.2383
2006	12-May	1 C	200	0.0000	0.0000	0.0000	1.1094	-1.0436	0.0231
2006	12-May	2 C	200	-0.0098	0.5861	-0.5513	0.2489	-0.2342	0.1480
2006	12-May	3 C	200	0.0000	0.0000	0.0000	1.3028	-1.2256	0.1274
2006	12-May	1 T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	2 T	200	-0.0052	0.0000	0.0000	0.3183	-0.1664	0.2147
2006	12-May	3 T	200	0.0000	0.0000	0.0000	1.5820	-0.8270	0.1920
2006	19-May	1 C	15	0.0000	16.1659	-4.5041	0.8390	-0.2338	1.4757
2006	19-May	2 C	15	0.0000	24.4901	-6.8234	10.8885	-3.0337	1.3771
2006	19-May	3 C	15	0.0000	36.3925	-10.1396	23.0607	-6.4251	4.3546
2006	19-May	1 T	15	0.0000	34.2290	-9.6283	38.3566	-10.7894	7.2592
2006	19-May	2 T	15	0.0000	41.6510	-11.7161	38.0679	-10.7082	6.5810
2006	19-May	3 T	15	0.0000	29.7004	-8.3545	19.2526	-5.4156	5.9445
2006	19-May	1 C	30	0.0000	16.1280	-4.6108	2.2775	-0.6511	3.8671
2006	19-May	2 C	30	-0.0021	16.3926	-4.6865	20.3428	-5.8158	5.9933
2006	19-May	3 C	30	-0.0047	4.5858	-1.3110	8.7474	-2.5008	2.7601
2006	19-May	1 T	30	0.0000	0.8936	-0.2627	7.5691	-2.2249	3.7236
2006	19-May	2 T	30	0.0000	29.3002	-8.6125	13.0490	-3.8356	3.1254
2006	19-May	3 T	30	-0.0058	5.2998	-1.5578	6.2784	-1.8455	7.1095
2006	19-May	1 C	60	-0.0008	9.3772	-2.8879	5.5275	-1.7023	1.9658
2006	19-May	2 C	60	0.0000	21.9229	-6.7515	2.4803	-0.7639	1.2016
2006	19-May	3 C	60	0.0000	19.5173	-6.0107	2.2676	-0.6983	0.9180
2006	19-May	1 T	60	0.0000	0.0000	0.0000	3.2801	-1.0845	1.2968
2006	19-May	2 T	60	0.0000	14.5727	-4.8180	1.9076	-0.6307	5.0968
2006	19-May	3 T	60	0.0000	21.9700	-7.2637	5.1060	-1.6882	1.2590
2006	19-May	1 C	120	0.0000	17.5203	-6.2796	2.5367	-0.9092	2.5101
2006	19-May	2 C	120	0.0000	21.8567	-7.8339	1.4075	-0.5045	1.0395
2006	19-May	3 C	120	-0.0036	0.0000	0.0000	0.5429	-0.1946	1.4294
2006	19-May	1 T	120	0.0000	10.2939	-3.9575	1.1861	-0.4560	0.6499
2006	19-May	2 T	120	0.0000	7.3119	-2.8110	1.5284	-0.5876	1.4767
2006	19-May	3 T	120	0.0000	16.6448	-6.3990	0.6234	-0.2397	0.3493
2006	19-May	1 C	200	0.0000	20.2958	-7.7056	0.6160	-0.2339	0.0918
2006	19-May	2 C	200	0.0000	17.0064	-6.4567	0.6561	-0.2491	0.2018
2006	19-May	3 C	200	0.0000	13.4804	-5.1180	0.6840	-0.2597	0.1976
2006	19-May	1 T	200	0.0000	13.3882	-5.6002	0.5566	-0.2328	0.0651
2006	19-May	2 T	200	0.0000	13.8514	-5.7940	0.5867	-0.2454	0.2292
2006	19-May	3 T	200	0.0000	0.0000	0.0000	0.2657	-0.1112	0.2084
2006	27-May	1 C	15	0.0000	17.8776	-12.2509	8.9886	-6.1596	1.2669
2006	27-May	2 C	15	0.0000	16.8764	-11.5648	1.2095	-0.8288	1.9529
2006	27-May	3 C	15	0.0000	18.4789	-12.6630	3.3113	-2.2692	2.1167
2006	27-May	1 T	15						
2006	27-May	2 T	15	0.0000	75.9182	-52.6574	68.5925	-47.5762	8.9913

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			cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	27-May	3 T	15	0.0000	18.8068	-13.0445	1.2609	-0.8746	1.5683
2006	27-May	1 C	30	0.0000	22.1023	-14.8113	12.1617	-8.1499	3.7256
2006	27-May	2 C	30	-0.0054	0.3621	-0.2426	2.2669	-1.5191	4.7104
2006	27-May	3 C	30	0.0000	21.3050	-14.2770	12.5749	-8.4268	3.3885
2006	27-May	1 T	30	0.0000	23.2968	-15.7178	9.1726	-6.1885	5.9971
2006	27-May	2 T	30	0.0000	27.5894	-18.6140	14.5522	-9.8181	3.6861
2006	27-May	3 T	30	0.0000	15.4599	-10.4304	0.6381	-0.4305	0.2230
2006	27-May	1 C	60	0.0000	19.3970	-12.2743	2.8938	-1.8312	1.3721
2006	27-May	2 C	60	0.0000	24.3215	-15.3905	7.3456	-4.6483	2.4725
2006	27-May	3 C	60	-0.0058	8.7856	-5.5595	2.6744	-1.6924	0.8182
2006	27-May	1 T	60	0.0000	23.2772	-14.4717	3.9336	-2.4455	2.4907
2006	27-May	2 T	60	0.0000	17.8432	-11.0933	2.2321	-1.3877	5.0992
2006	27-May	3 T	60	0.0000	22.8279	-14.1923	4.7227	-2.9362	1.2782
2006	27-May	1 C	120	0.0000	20.0310	-10.9487	2.8156	-1.5390	2.7942
2006	27-May	2 C	120	0.0000	16.2401	-8.8766	1.3292	-0.7265	0.7330
2006	27-May	3 C	120	0.0000	16.7630	-9.1624	1.1203	-0.6124	1.4832
2006	27-May	1 T	120	-0.0036	12.5371	-6.2459	1.3234	-0.6593	0.8945
2006	27-May	2 T	120	0.0000	37.6382	-18.7511	24.2131	-12.0628	5.9683
2006	27-May	3 T	120	-0.0209	13.7446	-6.8474	0.6805	-0.3390	0.2651
2006	27-May	1 C	200	0.0000	15.9550	-7.2968	0.6849	-0.3132	0.0821
2006	27-May	2 C	200	0.0000	14.7114	-6.7281	0.7172	-0.3280	0.1897
2006	27-May	3 C	200	0.0000	16.1011	-7.3636	0.8607	-0.3936	0.1943
2006	27-May	1 T	200	0.0000	8.5940	-3.3867	0.5391	-0.2125	0.0425
2006	27-May	2 T	200	0.0000	21.4514	-8.4535	7.8765	-3.1040	9.2354
2006	27-May	3 T	200	0.0000	14.9595	-5.8952	1.0942	-0.4312	0.2619
2006	1-Jun	1 C	15	0.0000	17.3858	-10.6142	1.6343	-0.9978	2.6900
2006	1-Jun	2 C	15	0.0000	8.8761	-5.4189	15.5273	-9.4796	5.1626
2006	1-Jun	3 C	15	0.0000	28.6982	-17.5205	17.3354	-10.5835	4.8611
2006	1-Jun	1 T	15	-0.0311	165.1895	-99.6891	172.9514	-104.3733	41.4654
2006	1-Jun	2 T	15	-0.0077	7.1416	-4.3098	9.2696	-5.5940	2.8331
2006	1-Jun	3 T	15	0.0000	31.8108	-19.1973	23.2259	-14.0164	5.2376
2006	1-Jun	1 C	30	-0.0131	8.7815	-5.1745	11.0322	-6.5007	16.1002
2006	1-Jun	2 C	30	0.0000	17.4947	-10.3086	2.9489	-1.7376	1.3295
2006	1-Jun	3 C	30	0.0000	17.8517	-10.5190	0.7558	-0.4453	0.1000
2006	1-Jun	1 T	30	0.0000	23.6877	-13.6976	12.3869	-7.1628	7.4540
2006	1-Jun	2 T	30	0.0000	26.2515	-15.1801	13.2104	-7.6390	3.0317
2006	1-Jun	3 T	30	0.0000	20.3413	-11.7625	12.5541	-7.2595	13.9045
2006	1-Jun	1 C	60	0.0000	23.1319	-13.2203	8.9735	-5.1285	3.2596
2006	1-Jun	2 C	60	-0.0113	0.0000	0.0000	0.7887	-0.4508	0.9205
2006	1-Jun	3 C	60	0.0000	11.0753	-6.3298	3.0258	-1.7293	0.9828
2006	1-Jun	1 T	60	0.0000	16.1630	-9.3605	3.1998	-1.8531	2.4988
2006	1-Jun	2 T	60	0.0000	18.6419	-10.7961	2.6979	-1.5625	10.1424
2006	1-Jun	3 T	60	0.0000	14.9873	-8.6796	4.5367	-2.6273	1.1074
2006	1-Jun	1 C	120	0.0000	19.4363	-11.6997	2.9085	-1.7508	2.8526
2006	1-Jun	2 C	120	-0.0109	0.0000	0.0000	0.1618	-0.0974	0.1312

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			cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	1-Jun	3 C	120	0.0000	12.4564	-7.4982	1.3319	-0.8017	1.3377
2006	1-Jun	1 T	120	0.0000	14.4389	-8.9799	1.1372	-0.7072	1.0129
2006	1-Jun	2 T	120	0.0000	16.0956	-10.0102	1.2873	-0.8006	1.6516
2006	1-Jun	3 T	120	0.0000	14.1015	-8.7701	0.8728	-0.5428	0.3620
2006	1-Jun	1 C	200	-0.0050	1.6413	-1.0605	2.6222	-1.6942	0.3645
2006	1-Jun	2 C	200	0.0000	16.2136	-10.4756	2.2124	-1.4294	1.6336
2006	1-Jun	3 C	200	0.0000	12.1367	-7.8416	0.9563	-0.6179	0.1924
2006	1-Jun	1 T	200	0.0000	14.0779	-9.0460	0.6695	-0.4302	0.0833
2006	1-Jun	2 T	200	0.0000	23.4913	-15.0947	0.8039	-0.5166	0.2400
2006	1-Jun	3 T	200	0.0000	14.4430	-9.2806	0.7609	-0.4889	0.2603
2006	9-Jun	1 C	15	0.0000	14.3011	-8.4675	1.8307	-1.0840	3.2514
2006	9-Jun	2 C	15	-0.0009	6.5368	-3.8703	4.5621	-2.7012	0.5342
2006	9-Jun	3 C	15	-0.0190	0.0000	0.0000	2.3463	-1.3892	1.5763
2006	9-Jun	1 T	15	-0.0171	243.9387	-146.2752	242.8578	-145.6271	64.9031
2006	9-Jun	2 T	15	0.0000	90.6058	-54.3308	89.0020	-53.3691	13.7423
2006	9-Jun	3 T	15	0.0000	47.0412	-28.2077	27.7958	-16.6675	8.8051
2006	9-Jun	1 C	30	0.0000	26.1011	-15.3820	12.8264	-7.5589	13.4895
2006	9-Jun	2 C	30	-0.0184	1.9512	-1.1499	3.9964	-2.3552	1.7480
2006	9-Jun	3 C	30	-0.0057	20.8707	-12.2996	15.1792	-8.9455	4.9271
2006	9-Jun	1 T	30	0.0000	24.9785	-14.6833	11.3502	-6.6721	6.1306
2006	9-Jun	2 T	30	0.0000	34.3280	-20.1793	14.1857	-8.3389	3.5826
2006	9-Jun	3 T	30	0.0000	33.2733	-19.5593	13.4530	-7.9082	10.8101
2006	9-Jun	1 C	60	0.0000	22.7847	-12.8922	12.0773	-6.8337	4.7997
2006	9-Jun	2 C	60	-0.0112	8.4120	-4.7598	3.2516	-1.8399	1.4332
2006	9-Jun	3 C	60	-0.0002	6.6921	-3.7866	2.6553	-1.5024	1.0725
2006	9-Jun	1 T	60	0.0000	16.5790	-9.0084	3.5386	-1.9228	2.6653
2006	9-Jun	2 T	60	0.0000	7.2965	-3.9647	3.3243	-1.8063	11.8157
2006	9-Jun	3 T	60	0.0000	19.6070	-10.6538	4.6051	-2.5023	0.9451
2006	9-Jun	1 C	120	0.0000	15.1605	-7.4951	3.3350	-1.6488	2.9075
2006	9-Jun	2 C	120	-0.0024	1.9215	-0.9500	1.4739	-0.7287	0.9917
2006	9-Jun	3 C	120	-0.0110	3.3144	-1.6386	1.0384	-0.5134	1.1968
2006	9-Jun	1 T	120	0.0000	11.9024	-5.5717	1.2076	-0.5653	0.8340
2006	9-Jun	2 T	120	0.0000	13.3492	-6.2490	1.3433	-0.6288	1.7960
2006	9-Jun	3 T	120	0.0000	16.0349	-7.5062	0.9206	-0.4310	0.3404
2006	9-Jun	1 C	200	-0.0127	0.0000	0.0000	0.9615	-0.4300	0.0443
2006	9-Jun	2 C	200	-0.0040	1.9850	-0.8877	0.8349	-0.3734	0.1581
2006	9-Jun	3 C	200	0.0000	3.8643	-1.7282	0.8660	-0.3873	0.1609
2006	9-Jun	1 T	200	0.0000	14.9989	-7.4006	0.7589	-0.3745	0.0808
2006	9-Jun	2 T	200	0.0000	16.7478	-8.2636	0.8356	-0.4123	0.2164
2006	9-Jun	3 T	200	0.0000	18.1541	-8.9575	0.8787	-0.4336	0.2537
2006	15-Jun	1 C	15	-0.0297	0.0000	0.0000	2.1156	-0.9467	2.4563
2006	15-Jun	2 C	15	-0.0103	0.0000	0.0000	4.8141	-2.1543	0.7418
2006	15-Jun	3 C	15	-0.0058	4.8389	-2.1654	3.9912	-1.7860	2.3862
2006	15-Jun	1 T	15	-0.0073	120.3554	-56.5864	126.9675	-59.6952	35.1713
2006	15-Jun	2 T	15	-0.0034	60.6614	-28.5206	50.7277	-23.8502	8.7322
2006	15-Jun	3 T	15	-0.0079	22.8218	-10.7299	13.8197	-6.4975	6.0977

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			cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	15-Jun	1 C	30	-0.0074	15.7504	-7.1814	19.5444	-8.9113	14.3588
2006	15-Jun	2 C	30	-0.0095	12.3151	-5.6151	20.8838	-9.5220	9.9455
2006	15-Jun	3 C	30	-0.0122	16.6603	-7.5963	14.9880	-6.8338	5.0574
2006	15-Jun	1 T	30	-0.0043	18.0098	-8.4612	11.1601	-5.2431	4.8341
2006	15-Jun	2 T	30	-0.0132	18.5075	-8.6950	14.9956	-7.0451	5.5113
2006	15-Jun	3 T	30	-0.0105	26.3273	-12.3688	27.2455	-12.8001	15.4228
2006	15-Jun	1 C	60	-0.0087	15.0029	-6.8900	13.9389	-6.4014	5.3738
2006	15-Jun	2 C	60	-0.0008	7.3318	-3.3671	4.1395	-1.9010	1.9195
2006	15-Jun	3 C	60	0.0000	7.2430	-3.3263	3.1816	-1.4611	1.1673
2006	15-Jun	1 T	60	-0.0214	0.0000	0.0000	3.2903	-1.5589	2.5719
2006	15-Jun	2 T	60	0.0000	6.7519	-3.1990	3.9783	-1.8849	11.4595
2006	15-Jun	3 T	60	-0.0001	7.2117	-3.4169	4.4343	-2.1009	0.9461
2006	15-Jun	1 C	120	-0.0095	2.6547	-1.2321	3.8477	-1.7858	3.0133
2006	15-Jun	2 C	120	0.0000	2.1443	-0.9952	1.8216	-0.8454	1.1818
2006	15-Jun	3 C	120	-0.0100	0.0000	0.0000	1.3902	-0.6452	1.3708
2006	15-Jun	1 T	120	-0.0046	4.3254	-2.1395	1.3136	-0.6497	0.8138
2006	15-Jun	2 T	120	-0.0015	4.1137	-2.0347	1.3200	-0.6529	1.9593
2006	15-Jun	3 T	120	0.0000	18.0592	-8.9325	0.9830	-0.4862	0.3352
2006	15-Jun	1 C	200	-0.0027	1.0470	-0.5125	1.0657	-0.5216	0.0582
2006	15-Jun	2 C	200	-0.0054	2.2413	-1.0970	1.0517	-0.5148	0.1591
2006	15-Jun	3 C	200	-0.0148	1.5919	-0.7792	1.3578	-0.6646	0.1598
2006	15-Jun	1 T	200	-0.0327	2.6752	-1.2242	0.8612	-0.3941	0.0343
2006	15-Jun	2 T	200	-0.0038	4.3809	-2.0047	0.9689	-0.4434	0.1836
2006	15-Jun	3 T	200	-0.0047	2.6586	-1.2166	0.9058	-0.4145	0.2120
2006	22-Jun	1 C	15	0.0000	34.7442	-15.2259	33.2930	-14.5899	1.5359
2006	22-Jun	2 C	15	-0.0098	13.1401	-5.7584	12.8985	-5.6525	2.1010
2006	22-Jun	3 C	15	-0.0124	2.9912	-1.3108	2.3908	-1.0477	1.4427
2006	22-Jun	1 T	15	-0.0065	30.2422	-13.4271	25.3276	-11.2451	7.1657
2006	22-Jun	2 T	15	-0.0026	13.7408	-6.1008	14.4020	-6.3943	2.5338
2006	22-Jun	3 T	15	0.0000	9.9260	-4.4070	7.9858	-3.5456	8.6752
2006	22-Jun	1 C	30	-0.0078	18.7198	-7.4980	16.0735	-6.4381	8.1659
2006	22-Jun	2 C	30	-0.0006	0.1672	-0.0670	5.5508	-2.2233	2.6333
2006	22-Jun	3 C	30	-0.0102	12.5502	-5.0268	14.6783	-5.8792	4.9983
2006	22-Jun	1 T	30	-0.0117	15.7183	-6.3560	13.4858	-5.4532	4.2023
2006	22-Jun	2 T	30	0.0000	20.1534	-8.1494	18.3574	-7.4231	5.7955
2006	22-Jun	3 T	30	-0.0088	36.1428	-14.6150	41.8389	-16.9183	13.5387
2006	22-Jun	1 C	60	-0.0039	14.6063	-5.1969	15.5442	-5.5306	6.0989
2006	22-Jun	2 C	60	-0.0100	9.7903	-3.4834	5.4658	-1.9447	2.3819
2006	22-Jun	3 C	60	-0.0087	3.9347	-1.4000	3.4341	-1.2218	1.3056
2006	22-Jun	1 T	60	-0.0020	3.2771	-1.1841	3.3074	-1.1950	2.8688
2006	22-Jun	2 T	60	-0.0101	3.6535	-1.3201	5.8015	-2.0962	12.0567
2006	22-Jun	3 T	60	-0.0140	7.2247	-2.6104	5.8380	-2.1094	1.2429
2006	22-Jun	1 C	120	-0.0026	2.4885	-0.8411	3.5644	-1.2048	2.7870
2006	22-Jun	2 C	120	0.0000	0.0000	0.0000	1.9640	-0.6638	1.1857
2006	22-Jun	3 C	120	-0.0095	1.6048	-0.5424	1.5111	-0.5108	1.5797
2006	22-Jun	1 T	120	-0.0086	6.3289	-2.3516	1.3863	-0.5151	0.7842

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			cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	22-Jun	2 T	120	0.0000	4.1369	-1.5371	1.4694	-0.5460	2.1561
2006	22-Jun	3 T	120	-0.0045	0.8965	-0.3331	1.2984	-0.4824	0.3261
2006	22-Jun	1 C	200	-0.0131	0.0000	0.0000	1.0201	-0.4133	0.0483
2006	22-Jun	2 C	200	-0.0127	0.0000	0.0000	1.1893	-0.4818	0.1469
2006	22-Jun	3 C	200	-0.0130	2.7538	-1.1157	1.1673	-0.4729	0.1561
2006	22-Jun	1 T	200	-0.0187	0.4528	-0.2131	1.0085	-0.4746	0.0374
2006	22-Jun	2 T	200	0.0000	4.4137	-2.0771	1.0647	-0.5010	0.1698
2006	22-Jun	3 T	200	-0.0073	0.0000	0.0000	1.2257	-0.5768	0.2138
2006	29-Jun	1 C	15	0.0000	18.4198	-16.3230	22.6038	-20.0307	0.6623
2006	29-Jun	2 C	15	-0.0167	27.3702	-24.2546	29.2253	-25.8985	4.0995
2006	29-Jun	3 C	15	-0.0020	5.4757	-4.8524	6.9693	-6.1759	1.8406
2006	29-Jun	1 T	15	-0.0022	2.5691	-2.3509	8.9949	-8.2309	1.8818
2006	29-Jun	2 T	15	-0.0263	0.0000	0.0000	5.3674	-4.9115	1.6016
2006	29-Jun	3 T	15	-0.0117	5.6278	-5.1498	4.8893	-4.4740	2.6317
2006	29-Jun	1 C	30	-0.0238	13.4958	-12.0973	16.7957	-15.0552	6.0958
2006	29-Jun	2 C	30	-0.0096	20.2868	-18.1846	17.4916	-15.6790	6.6831
2006	29-Jun	3 C	30	-0.0362	16.7456	-15.0103	17.4604	-15.6511	6.0975
2006	29-Jun	1 T	30	-0.0112	10.0855	-9.3667	9.3443	-8.6784	2.3065
2006	29-Jun	2 T	30	0.0000	20.7725	-19.2922	20.5721	-19.1060	4.2508
2006	29-Jun	3 T	30	-0.0254	42.8227	-39.7709	38.0285	-35.3184	5.9856
2006	29-Jun	1 C	60	-0.0304	20.4339	-18.4202	18.9616	-17.0930	6.1870
2006	29-Jun	2 C	60	-0.0224	2.1600	-1.9472	5.4886	-4.9477	2.8227
2006	29-Jun	3 C	60	-0.0139	4.2584	-3.8387	2.4118	-2.1742	0.9200
2006	29-Jun	1 T	60	-0.0091	5.5043	-5.0311	3.6863	-3.3693	3.4209
2006	29-Jun	2 T	60	-0.0987	9.5641	-8.7418	7.5720	-6.9209	14.0664
2006	29-Jun	3 T	60	-0.0014	19.9218	-18.2089	5.8676	-5.3631	2.2747
2006	29-Jun	1 C	120	-0.0034	3.6662	-3.1580	3.3534	-2.8886	2.6457
2006	29-Jun	2 C	120	-0.0266	2.1858	-1.8829	2.0935	-1.8033	1.2749
2006	29-Jun	3 C	120	-0.0214	0.0000	0.0000	1.2621	-1.0871	1.5843
2006	29-Jun	1 T	120	-0.0519	0.0000	0.0000	1.7517	-1.4380	0.8484
2006	29-Jun	2 T	120	-0.0227	0.0000	0.0000	1.4940	-1.2264	2.3419
2006	29-Jun	3 T	120	0.0000	2.3546	-1.9329	1.1772	-0.9664	0.4437
2006	29-Jun	1 C	200	-0.0224	3.7164	-2.9208	1.0904	-0.8570	0.0572
2006	29-Jun	2 C	200	-0.0048	0.0000	0.0000	1.0828	-0.8510	0.1514
2006	29-Jun	3 C	200	0.0000	8.7328	-6.8633	1.4292	-1.1232	0.2220
2006	29-Jun	1 T	200	-0.0192	0.0000	0.0000	1.1103	-0.7292	0.0316
2006	29-Jun	2 T	200	-0.0033	0.0000	0.0000	1.0599	-0.6961	0.1620
2006	29-Jun	3 T	200	-0.0165	0.0000	0.0000	1.0606	-0.6965	0.2211
2006	5-Jul	1 C	15	-0.0218	0.0000	0.0000	10.9828	-6.4034	0.2848
2006	5-Jul	2 C	15	0.0000	0.0000	0.0000	17.7332	-10.3392	1.5387
2006	5-Jul	3 C	15	0.0000	0.0000	0.0000	7.8043	-4.5502	0.9136
2006	5-Jul	1 T	15	-0.0026	0.0000	0.0000	5.9966	-3.6143	1.4136
2006	5-Jul	2 T	15	-0.0160	0.1420	-0.0856	3.8647	-2.3294	0.7910
2006	5-Jul	3 T	15	0.0000	0.0000	0.0000	2.8962	-1.7456	0.7718
2006	5-Jul	1 C	30	0.0000	0.0000	0.0000	15.5011	-8.7368	3.0657
2006	5-Jul	2 C	30	0.0000	0.0000	0.0000	11.2622	-6.3477	3.3980

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			cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	5-Jul	3 C	30	-0.0295	0.0000	0.0000	14.4841	-8.1636	4.3859
2006	5-Jul	1 T	30	0.0000	0.0000	0.0000	7.6461	-4.4027	1.0711
2006	5-Jul	2 T	30	0.0000	12.1572	-7.0003	18.4439	-10.6203	3.2269
2006	5-Jul	3 T	30	0.0000	2.0966	-1.2072	16.0846	-9.2618	1.7531
2006	5-Jul	1 C	60	0.0000	12.3558	-6.5097	19.7043	-10.3813	6.4551
2006	5-Jul	2 C	60	0.0000	0.0000	0.0000	5.9596	-3.1398	3.3024
2006	5-Jul	3 C	60	0.0000	0.0000	0.0000	2.9794	-1.5697	1.4120
2006	5-Jul	1 T	60	-0.0067	0.0000	0.0000	2.3211	-1.2573	2.4316
2006	5-Jul	2 T	60	-0.0880	0.0000	0.0000	8.8778	-4.8090	14.7370
2006	5-Jul	3 T	60	0.0000	0.0000	0.0000	6.6374	-3.5954	4.9205
2006	5-Jul	1 C	120	0.0000	0.0000	0.0000	4.1698	-1.9925	3.0829
2006	5-Jul	2 C	120	-0.0052	0.0000	0.0000	1.2478	-0.5962	1.7554
2006	5-Jul	3 C	120	0.0000	7.1595	-3.4211	1.1978	-0.5723	1.6538
2006	5-Jul	1 T	120	-0.0019	1.5468	-0.7474	0.6055	-0.2926	1.0036
2006	5-Jul	2 T	120	0.0000	0.0000	0.0000	1.2542	-0.6060	3.2443
2006	5-Jul	3 T	120	0.0000	0.0000	0.0000	0.7390	-0.3571	0.3847
2006	5-Jul	1 C	200	0.0000	0.0000	0.0000	0.8463	-0.3956	0.0329
2006	5-Jul	2 C	200	0.0000	0.0000	0.0000	0.8800	-0.4114	0.1558
2006	5-Jul	3 C	200	0.0000	0.0000	0.0000	1.0911	-0.5100	0.1375
2006	5-Jul	1 T	200	0.0000	0.0000	0.0000	0.7575	-0.3731	0.0000
2006	5-Jul	2 T	200	0.0000	0.0000	0.0000	0.6708	-0.3304	0.1594
2006	5-Jul	3 T	200	-0.0194	0.0000	0.0000	1.3588	-0.6692	0.1737
2006	13-Jul	1 C	15						
2006	13-Jul	2 C	15	0.0000	0.0000	0.0000	8.7367	-10.4550	0.4755
2006	13-Jul	3 C	15	0.0000	0.0000	0.0000	1.8709	-2.2388	0.1795
2006	13-Jul	1 T	15	-0.0140	0.0000	0.0000	3.7459	-4.5952	1.0159
2006	13-Jul	2 T	15	0.0000	0.0000	0.0000	5.7554	-7.0605	0.7867
2006	13-Jul	3 T	15	0.0000	0.0000	0.0000	3.5573	-4.3640	0.5471
2006	13-Jul	1 C	30	0.0000	0.0000	0.0000	14.5363	-17.0829	2.6233
2006	13-Jul	2 C	30	0.0000	0.0000	0.0000	12.4258	-14.6026	2.1634
2006	13-Jul	3 C	30	0.0000	0.0000	0.0000	15.3581	-18.0486	4.4847
2006	13-Jul	1 T	30	0.0000	0.0000	0.0000	6.2549	-7.5463	0.4866
2006	13-Jul	2 T	30	0.0000	0.0000	0.0000	13.4906	-16.2759	1.9722
2006	13-Jul	3 T	30	0.0000	0.0000	0.0000	10.4121	-12.5619	0.5917
2006	13-Jul	1 C	60	0.0000	12.4927	-14.1946	22.6591	-25.7459	5.9964
2006	13-Jul	2 C	60	0.0000	0.0000	0.0000	6.2220	-7.0696	2.3608
2006	13-Jul	3 C	60	0.0000	0.0000	0.0000	4.1289	-4.6914	1.9858
2006	13-Jul	1 T	60	0.0000	0.0000	0.0000	4.6133	-5.2590	2.8190
2006	13-Jul	2 T	60	0.0000	0.0000	0.0000	8.9425	-10.1941	12.9326
2006	13-Jul	3 T	60	-0.0206	0.0000	0.0000	7.6186	-8.6849	5.8111
2006	13-Jul	1 C	120	0.0000	0.0000	0.0000	3.1282	-3.2791	2.5127
2006	13-Jul	2 C	120	-0.0686	0.0000	0.0000	3.3244	-3.4847	1.7691
2006	13-Jul	3 C	120	-0.0277	0.0000	0.0000	0.5702	-0.5977	1.4756
2006	13-Jul	1 T	120	0.0000	0.0000	0.0000	1.2752	-1.2885	0.7461
2006	13-Jul	2 T	120	0.0000	0.0000	0.0000	1.4625	-1.4778	3.0284
2006	13-Jul	3 T	120	0.0000	0.0000	0.0000	1.0214	-1.0321	0.3243

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			cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	13-Jul	1 C	200	0.0000	0.0000	0.0000	0.9339	-0.9376	0.0241
2006	13-Jul	2 C	200	0.0000	0.0000	0.0000	1.1200	-1.1244	0.1452
2006	13-Jul	3 C	200	0.0000	0.0000	0.0000	1.0840	-1.0882	0.1297
2006	13-Jul	1 T	200	0.0000	0.0000	0.0000	0.8780	-0.8326	0.0018
2006	13-Jul	2 T	200	0.0000	0.0000	0.0000	0.9239	-0.8762	0.1462
2006	13-Jul	3 T	200	0.0000	0.0000	0.0000	0.9800	-0.9294	0.1500
2006	20-Jul	1 C	15	0.0000	0.0000	0.0000	4.1532	-1.6985	0.0268
2006	20-Jul	2 C	15						
2006	20-Jul	3 C	15	-0.0078	0.0000	0.0000	1.4970	-0.6122	0.0873
2006	20-Jul	1 T	15	0.0000	0.0000	0.0000	4.2643	-1.7555	1.0953
2006	20-Jul	2 T	15	0.0000	0.0000	0.0000	3.6631	-1.5080	0.6004
2006	20-Jul	3 T	15	0.0000	0.0000	0.0000	2.0568	-0.8467	0.3274
2006	20-Jul	1 C	30	0.0000	0.0000	0.0000	1.2517	-0.5118	0.1752
2006	20-Jul	2 C	30	-0.0086	0.0000	0.0000	1.8460	-0.7549	0.3590
2006	20-Jul	3 C	30	0.0000	24.0604	-9.8385	34.7896	-14.2258	10.0069
2006	20-Jul	1 T	30	0.0000	0.0000	0.0000	1.2372	-0.5223	0.0713
2006	20-Jul	2 T	30	0.0000	0.0000	0.0000	10.0983	-4.2630	0.8330
2006	20-Jul	3 T	30	-0.0139	0.0000	0.0000	3.8433	-1.6225	0.2785
2006	20-Jul	1 C	60	0.0000	4.9568	-2.0983	25.9034	-10.9652	5.2683
2006	20-Jul	2 C	60	-0.0101	0.0000	0.0000	7.8800	-3.3357	2.8205
2006	20-Jul	3 C	60	0.0000	0.0000	0.0000	4.6942	-1.9871	2.2417
2006	20-Jul	1 T	60	0.0000	0.0000	0.0000	3.3469	-1.5238	2.0209
2006	20-Jul	2 T	60	-0.0153	0.0000	0.0000	17.3483	-7.8986	11.5224
2006	20-Jul	3 T	60	0.0000	0.0000	0.0000	15.7782	-7.1838	8.6799
2006	20-Jul	1 C	120	0.0000	0.0000	0.0000	3.5293	-1.6753	2.4640
2006	20-Jul	2 C	120	0.0000	0.0000	0.0000	2.2045	-1.0464	1.0096
2006	20-Jul	3 C	120	-0.0097	0.0000	0.0000	0.6314	-0.2997	1.4467
2006	20-Jul	1 T	120	0.0000	0.0000	0.0000	1.3765	-0.7458	0.8473
2006	20-Jul	2 T	120	0.0000	0.0000	0.0000	1.7838	-0.9665	3.3232
2006	20-Jul	3 T	120	0.0000	0.0000	0.0000	1.2251	-0.6638	0.3194
2006	20-Jul	1 C	200	0.0000	0.0000	0.0000	1.0790	-0.6349	0.0031
2006	20-Jul	2 C	200	0.0000	0.0000	0.0000	1.1900	-0.7003	0.1427
2006	20-Jul	3 C	200	0.0000	0.0000	0.0000	1.2053	-0.7092	0.1337
2006	20-Jul	1 T	200	0.0000	0.0000	0.0000	0.9598	-0.6727	0.0048
2006	20-Jul	2 T	200	-0.0077	0.0000	0.0000	1.1995	-0.8407	0.1262
2006	20-Jul	3 T	200	0.0000	0.0000	0.0000	1.1975	-0.8393	0.1787
2006	26-Jul	1 C	15	0.0000	0.0000	0.0000	3.6315	-2.8364	0.0424
2006	26-Jul	2 C	15						
2006	26-Jul	3 C	15	-0.0404	0.0000	0.0000	1.2626	-0.9862	0.0979
2006	26-Jul	1 T	15	-0.0178	0.0000	0.0000	5.1219	-3.9655	1.4094
2006	26-Jul	2 T	15	-0.0048	0.0000	0.0000	1.9294	-1.4938	0.5076
2006	26-Jul	3 T	15	0.0000	0.0000	0.0000	1.8326	-1.4188	0.3623
2006	26-Jul	1 C	30	0.0000	15.4336	-11.2649	6.8126	-4.9725	0.3839
2006	26-Jul	2 C	30	-0.0357	0.0000	0.0000	1.6430	-1.1992	0.1771
2006	26-Jul	3 C	30	-0.0206	0.0000	0.0000	13.6500	-9.9631	3.5686
2006	26-Jul	1 T	30	0.0000	0.0000	0.0000	2.5903	-1.8627	0.1097

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			cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	26-Jul	2 T	30	0.0000	0.0000	0.0000	9.0288	-6.4928	0.6318
2006	26-Jul	3 T	30	0.0000	0.0000	0.0000	5.0103	-3.6030	0.0910
2006	26-Jul	1 C	60	0.0000	21.0487	-13.4881	26.8197	-17.1862	3.9321
2006	26-Jul	2 C	60	-0.0376	0.0000	0.0000	7.1946	-4.6103	2.2012
2006	26-Jul	3 C	60	-0.0249	0.0000	0.0000	3.7351	-2.3935	1.9500
2006	26-Jul	1 T	60	0.0000	0.0000	0.0000	4.3700	-2.6679	2.2774
2006	26-Jul	2 T	60	-0.0448	0.0000	0.0000	15.5360	-9.4848	9.9498
2006	26-Jul	3 T	60	0.0000	0.4302	-0.2626	20.6216	-12.5895	7.7727
2006	26-Jul	1 C	120	0.0000	0.0000	0.0000	4.4435	-2.1764	2.7946
2006	26-Jul	2 C	120	-0.0307	0.0000	0.0000	1.8024	-0.8828	1.3857
2006	26-Jul	3 C	120	-0.0222	0.0000	0.0000	1.1918	-0.5837	1.3854
2006	26-Jul	1 T	120	0.0000	0.0000	0.0000	1.5272	-0.6594	0.8157
2006	26-Jul	2 T	120	0.0000	0.0000	0.0000	1.6704	-0.7212	3.6061
2006	26-Jul	3 T	120	0.0000	0.0000	0.0000	1.2133	-0.5239	0.3251
2006	26-Jul	1 C	200	-0.0081	0.0000	0.0000	0.7078	-0.2727	0.0220
2006	26-Jul	2 C	200	-0.0146	0.0000	0.0000	0.7139	-0.2751	0.1417
2006	26-Jul	3 C	200	-0.0236	0.0000	0.0000	0.8119	-0.3128	0.1363
2006	26-Jul	1 T	200	0.0000	0.0000	0.0000	1.0729	-0.3427	0.0101
2006	26-Jul	2 T	200	0.0000	0.0000	0.0000	1.1830	-0.3779	0.1258
2006	26-Jul	3 T	200	0.0000	0.0000	0.0000	1.2018	-0.3839	0.2162
2006	3-Aug	1 C	15	-0.0068	0.0000	0.0000	3.0879	-0.4592	0.0532
2006	3-Aug	2 C	15	-0.0059	0.0000	0.0000	3.6357	-0.5407	0.3241
2006	3-Aug	3 C	15	-0.0083	0.0000	0.0000	2.3891	-0.3553	0.1252
2006	3-Aug	1 T	15	-0.0012	2.3583	-0.3651	5.5751	-0.8630	1.8915
2006	3-Aug	2 T	15	-0.0088	0.0000	0.0000	2.7145	-0.4202	0.5318
2006	3-Aug	3 T	15	-0.0053	0.0000	0.0000	1.5548	-0.2407	0.3873
2006	3-Aug	1 C	30	-0.0059	0.0000	0.0000	7.8755	-1.0963	0.3874
2006	3-Aug	2 C	30	-0.0081	0.0000	0.0000	2.4960	-0.3475	0.1943
2006	3-Aug	3 C	30	-0.0050	0.0000	0.0000	12.2565	-1.7062	2.9697
2006	3-Aug	1 T	30	-0.0062	0.0000	0.0000	2.0890	-0.3212	0.1101
2006	3-Aug	2 T	30	-0.0103	0.0000	0.0000	7.2545	-1.1155	0.4305
2006	3-Aug	3 T	30	-0.0028	0.0000	0.0000	2.3445	-0.3605	0.0744
2006	3-Aug	1 C	60	-0.0093	19.3290	-2.7398	24.2744	-3.4407	3.1097
2006	3-Aug	2 C	60	-0.0069	0.0000	0.0000	6.1287	-0.8687	2.0321
2006	3-Aug	3 C	60	-0.0032	0.0000	0.0000	3.6739	-0.5207	1.8506
2006	3-Aug	1 T	60	0.0000	0.0000	0.0000	2.0739	-0.3733	2.2471
2006	3-Aug	2 T	60	-0.0073	0.0000	0.0000	14.0484	-2.5285	7.7517
2006	3-Aug	3 T	60	-0.0075	4.9529	-0.8915	18.8074	-3.3851	5.4276
2006	3-Aug	1 C	120	-0.0094	0.0000	0.0000	4.1386	-0.9294	2.7211
2006	3-Aug	2 C	120	-0.0112	0.0000	0.0000	1.8904	-0.4245	1.3061
2006	3-Aug	3 C	120	-0.0053	0.0000	0.0000	0.8057	-0.1809	1.4725
2006	3-Aug	1 T	120	-0.0167	0.0000	0.0000	1.1434	-0.3540	0.8284
2006	3-Aug	2 T	120	-0.0093	0.0000	0.0000	1.2403	-0.3840	3.3803
2006	3-Aug	3 T	120	-0.0094	0.0000	0.0000	0.9388	-0.2907	0.3233
2006	3-Aug	1 C	200	-0.0219	0.0000	0.0000	1.4794	-0.6075	0.0885
2006	3-Aug	2 C	200	-0.0149	0.0000	0.0000	0.8256	-0.3390	0.1308

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			cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	3-Aug	3 C	200	-0.0104	0.0000	0.0000	0.8846	-0.3632	0.1515
2006	3-Aug	1 T	200	-0.0184	0.0000	0.0000	0.7003	-0.3655	0.0197
2006	3-Aug	2 T	200	-0.0126	0.0000	0.0000	0.8413	-0.4391	0.1333
2006	3-Aug	3 T	200	-0.0159	0.0000	0.0000	0.8784	-0.4585	0.1678
2006	10-Aug	1 C	15	-0.0114	0.0000	0.0000	4.3040	-0.7521	0.0781
2006	10-Aug	2 C	15	-0.0088	0.0000	0.0000	6.4309	-1.1237	0.2615
2006	10-Aug	3 C	15	-0.0086	6.0917	-1.0645	2.6423	-0.4617	0.1415
2006	10-Aug	1 T	15	-0.0084	0.0000	0.0000	6.2028	-1.0827	1.9318
2006	10-Aug	2 T	15	-0.0088	0.0000	0.0000	4.3390	-0.7574	0.7577
2006	10-Aug	3 T	15	-0.0077	0.0000	0.0000	1.9383	-0.3383	0.4737
2006	10-Aug	1 C	30	-0.0047	0.0000	0.0000	4.1960	-0.6370	0.1931
2006	10-Aug	2 C	30	0.0000	0.0000	0.0000	4.9020	-0.7441	0.1780
2006	10-Aug	3 C	30	-0.0010	2.4369	-0.3699	9.0433	-1.3728	2.7307
2006	10-Aug	1 T	30	-0.0091	0.0000	0.0000	1.9391	-0.2972	0.0749
2006	10-Aug	2 T	30	-0.0066	0.0000	0.0000	9.3627	-1.4349	0.4645
2006	10-Aug	3 T	30	-0.0097	0.0000	0.0000	2.2540	-0.3454	0.0982
2006	10-Aug	1 C	60	-0.0077	6.2455	-0.6662	23.9131	-2.5507	2.3042
2006	10-Aug	2 C	60	-0.0071	0.0000	0.0000	6.9610	-0.7425	1.3143
2006	10-Aug	3 C	60	-0.0036	8.4600	-0.9024	3.2551	-0.3472	1.8528
2006	10-Aug	1 T	60	-0.0048	0.0000	0.0000	5.4569	-0.6013	1.7185
2006	10-Aug	2 T	60	-0.0032	0.0000	0.0000	12.5246	-1.3802	7.5249
2006	10-Aug	3 T	60	-0.0080	0.0000	0.0000	16.7948	-1.8507	4.5929
2006	10-Aug	1 C	120	-0.0018	0.0000	0.0000	4.5118	-0.3118	2.4576
2006	10-Aug	2 C	120	-0.0051	0.0000	0.0000	2.0555	-0.1420	1.4150
2006	10-Aug	3 C	120	-0.0018	4.3180	-0.2984	0.6441	-0.0445	1.5430
2006	10-Aug	1 T	120	-0.0078	0.0000	0.0000	2.0194	-0.1904	0.8426
2006	10-Aug	2 T	120	-0.0064	0.0000	0.0000	1.4007	-0.1321	3.2982
2006	10-Aug	3 T	120	-0.0036	0.0000	0.0000	1.0439	-0.0984	0.2873
2006	10-Aug	1 C	200	-0.0048	0.0000	0.0000	0.9817	-0.1383	0.0126
2006	10-Aug	2 C	200	-0.0064	1.4428	-0.2032	0.3592	-0.0506	0.1724
2006	10-Aug	3 C	200	-0.0164	3.6321	-0.5116	1.2430	-0.1751	0.2346
2006	10-Aug	1 T	200	-0.0162	0.0000	0.0000	1.0030	-0.1884	0.0041
2006	10-Aug	2 T	200	-0.0091	0.0000	0.0000	0.9375	-0.1761	0.1285
2006	10-Aug	3 T	200	-0.0130	0.0000	0.0000	1.0316	-0.1938	0.1976
2006	17-Aug	1 C	15	-0.0122	7.6331	-6.1156	2.3558	-1.8875	0.0916
2006	17-Aug	2 C	15	-0.0225	4.8027	-3.8479	10.6085	-8.4994	0.5878
2006	17-Aug	3 C	15	-0.0418	6.6901	-5.3600	2.3757	-1.9034	0.1255
2006	17-Aug	1 T	15	-0.0435	8.6443	-6.8145	6.0565	-4.7745	2.5768
2006	17-Aug	2 T	15	-0.0557	1.7693	-1.3948	2.3646	-1.8641	0.5665
2006	17-Aug	3 T	15	-0.0327	8.3244	-6.5624	1.3451	-1.0604	0.5639
2006	17-Aug	1 C	30	-0.0389	15.2831	-10.9403	3.8045	-2.7234	0.2551
2006	17-Aug	2 C	30	-0.0448	6.9209	-4.9543	2.0854	-1.4928	0.2240
2006	17-Aug	3 C	30	-0.0305	11.0328	-7.8977	12.6097	-9.0266	3.0493
2006	17-Aug	1 T	30	-0.0266	6.9371	-4.7226	1.7905	-1.2189	0.1442
2006	17-Aug	2 T	30	-0.0925	0.0000	0.0000	9.3041	-6.3341	0.8925
2006	17-Aug	3 T	30	-0.0325	8.1813	-5.5697	2.4284	-1.6532	0.0911

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			cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	17-Aug	1 C	60	-0.0340	27.5461	-15.5855	20.9529	-11.8551	1.6289
2006	17-Aug	2 C	60	-0.0230	10.2639	-5.8073	6.5500	-3.7059	1.8890
2006	17-Aug	3 C	60	-0.0173	9.9023	-5.6027	3.3714	-1.9075	1.7165
2006	17-Aug	1 T	60	-0.0418	11.9570	-5.8625	3.5598	-1.7454	1.8972
2006	17-Aug	2 T	60	-0.0252	21.6480	-10.6140	15.8002	-7.7469	7.3194
2006	17-Aug	3 T	60	-0.0224	24.2234	-11.8767	15.2007	-7.4529	4.1639
2006	17-Aug	1 C	120	-0.0067	6.2049	-1.5883	2.4055	-0.6157	1.9446
2006	17-Aug	2 C	120	-0.0188	9.9039	-2.5351	1.6085	-0.4117	1.5034
2006	17-Aug	3 C	120	-0.0034	0.0000	0.0000	0.7632	-0.1953	1.6149
2006	17-Aug	1 T	120	-0.0031	4.5067	-0.6400	0.7555	-0.1073	0.9111
2006	17-Aug	2 T	120	-0.0065	10.4148	-1.4789	0.8607	-0.1222	3.6462
2006	17-Aug	3 T	120	-0.0039	9.0143	-1.2801	0.4641	-0.0659	0.3327
2006	17-Aug	1 C	200	-0.0140	0.0000	0.0000	1.0148	-0.1040	0.0789
2006	17-Aug	2 C	200	-0.0088	6.6798	-0.6848	0.3440	-0.0353	0.1852
2006	17-Aug	3 C	200	-0.0054	6.0300	-0.6182	0.4674	-0.0479	0.1740
2006	17-Aug	1 T	200	-0.0106	0.0000	0.0000	0.2200	-0.0281	0.0336
2006	17-Aug	2 T	200	-0.0033	0.0000	0.0000	0.4735	-0.0604	0.1945
2006	17-Aug	3 T	200	-0.0064	7.0318	-0.8976	0.4090	-0.0522	0.2318
2006	24-Aug	1 C	15	-0.0240	12.7776	-7.5227	2.4246	-1.4275	0.1155
2006	24-Aug	2 C	15	-0.0071	0.0000	0.0000	1.7951	-1.0569	0.1165
2006	24-Aug	3 C	15	-0.0194	7.4768	-4.4019	2.1991	-1.2947	0.1459
2006	24-Aug	1 T	15	-0.0467	8.9174	-5.2313	5.8493	-3.4315	1.9117
2006	24-Aug	2 T	15	-0.0306	6.9297	-4.0653	2.8318	-1.6613	0.6902
2006	24-Aug	3 T	15	-0.0153	15.3694	-9.0164	1.5866	-0.9307	0.5378
2006	24-Aug	1 C	30	-0.0656	14.6615	-8.3165	4.9643	-2.8159	0.2666
2006	24-Aug	2 C	30	-0.0180	13.2683	-7.5262	1.9925	-1.1302	0.2455
2006	24-Aug	3 C	30	-0.0361	5.8879	-3.3398	5.1543	-2.9237	1.1811
2006	24-Aug	1 T	30	-0.0203	7.5931	-4.3272	2.3467	-1.3373	0.1943
2006	24-Aug	2 T	30	-0.0267	11.3747	-6.4823	6.6436	-3.7861	0.9099
2006	24-Aug	3 T	30	-0.0231	4.7009	-2.6790	3.4740	-1.9798	0.3670
2006	24-Aug	1 C	60	-0.0350	24.5297	-13.3730	20.2354	-11.0319	1.1753
2006	24-Aug	2 C	60	-0.0345	6.5258	-3.5577	4.1742	-2.2757	0.5971
2006	24-Aug	3 C	60	-0.0198	2.8694	-1.5644	1.7834	-0.9723	0.7142
2006	24-Aug	1 T	60	0.0000	12.7715	-6.9564	3.9279	-2.1395	1.1187
2006	24-Aug	2 T	60	-0.0311	18.9400	-10.3164	13.2852	-7.2363	6.2026
2006	24-Aug	3 T	60	-0.0287	23.2808	-12.6807	20.4740	-11.1518	4.6419
2006	24-Aug	1 C	120	-0.0249	6.9420	-3.5331	1.8980	-0.9660	1.6615
2006	24-Aug	2 C	120	-0.0344	5.3214	-2.7083	2.1672	-1.1030	1.3466
2006	24-Aug	3 C	120	-0.0213	7.3073	-3.7191	0.9121	-0.4642	1.3914
2006	24-Aug	1 T	120	0.0000	0.0000	0.0000	1.6335	-0.8439	0.9172
2006	24-Aug	2 T	120	-0.0362	2.4460	-1.2636	1.0260	-0.5300	3.6757
2006	24-Aug	3 T	120	-0.0218	1.1874	-0.6134	0.6585	-0.3402	0.3456
2006	24-Aug	1 C	200	-0.0336	5.9096	-2.7195	0.4721	-0.2173	0.0612
2006	24-Aug	2 C	200	-0.0284	6.2028	-2.8544	0.5461	-0.2513	0.1758
2006	24-Aug	3 C	200	-0.0179	4.5340	-2.0865	1.4972	-0.6890	0.2418
2006	24-Aug	1 T	200	-0.0049	0.0000	0.0000	0.3713	-0.1336	0.0422

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			cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	24-Aug	2 T	200	-0.0137	0.0000	0.0000	0.4018	-0.1446	0.1752
2006	24-Aug	3 T	200	-0.0206	1.8625	-0.6702	0.5464	-0.1966	0.2048
2006	31-Aug	1 C	15	-0.0349	10.2324	-4.6598	2.7883	-1.2698	0.1622
2006	31-Aug	2 C	15						
2006	31-Aug	3 C	15	-0.0337	7.3021	-3.3253	2.4667	-1.1233	0.2007
2006	31-Aug	1 T	15	-0.0289	9.9811	-4.9182	7.5123	-3.7017	1.9734
2006	31-Aug	2 T	15	-0.0225	2.4766	-1.2203	4.1311	-2.0356	1.2921
2006	31-Aug	3 T	15	-0.0296	4.5347	-2.2345	1.5989	-0.7879	0.4867
2006	31-Aug	1 C	30	-0.0268	7.8094	-4.1160	2.6623	-1.4032	0.1567
2006	31-Aug	2 C	30	-0.0118	5.4190	-2.8561	3.3193	-1.7495	0.2587
2006	31-Aug	3 C	30	-0.0616	2.4318	-1.2817	17.5854	-9.2685	2.0332
2006	31-Aug	1 T	30	-0.0286	0.3441	-0.1961	2.4035	-1.3700	0.3009
2006	31-Aug	2 T	30	-0.0232	11.3416	-6.4646	6.0409	-3.4433	0.8431
2006	31-Aug	3 T	30						
2006	31-Aug	1 C	60	-0.0142	6.1208	-3.9671	11.4285	-7.4071	0.7682
2006	31-Aug	2 C	60	-0.0356	3.6902	-2.3917	2.4177	-1.5670	0.2122
2006	31-Aug	3 C	60	-0.0548	1.0796	-0.6997	3.5119	-2.2762	1.1214
2006	31-Aug	1 T	60	-0.0350	3.6075	-2.5598	4.4371	-3.1485	1.0693
2006	31-Aug	2 T	60	-0.0329	15.8502	-11.2470	10.2254	-7.2558	6.5150
2006	31-Aug	3 T	60	-0.0266	20.0478	-14.2256	16.5058	-11.7123	2.7901
2006	31-Aug	1 C	120	-0.0678	2.6784	-2.1321	1.1555	-0.9198	1.7674
2006	31-Aug	2 C	120	-0.0369	2.3653	-1.8829	2.6270	-2.0913	1.2878
2006	31-Aug	3 C	120	-0.0240	3.4894	-2.7777	1.5305	-1.2183	1.3546
2006	31-Aug	1 T	120	-0.0508	6.0120	-4.9203	0.9123	-0.7467	0.6482
2006	31-Aug	2 T	120	-0.0451	2.5469	-2.0844	0.9925	-0.8123	3.8710
2006	31-Aug	3 T	120	-0.0866	0.0000	0.0000	1.4048	-1.1497	0.2761
2006	31-Aug	1 C	200	-0.0528	0.0000	0.0000	0.4609	-0.3661	0.0390
2006	31-Aug	2 C	200	-0.0326	0.5981	-0.4751	0.5366	-0.4262	0.1646
2006	31-Aug	3 C	200	-0.0665	1.3994	-1.1115	0.7723	-0.6134	0.1425
2006	31-Aug	1 T	200	-0.0456	0.0000	0.0000	0.4287	-0.3225	0.0293
2006	31-Aug	2 T	200	-0.0083	0.0000	0.0000	0.4680	-0.3520	0.1643
2006	31-Aug	3 T	200	-0.0197	0.8630	-0.6491	0.6185	-0.4652	0.2152
2006	7-Sep	1 C	15	-0.0048	0.0000	0.0000	6.4080	-0.1122	0.4562
2006	7-Sep	2 C	15	-0.0002	2.8442	-0.0498	6.3437	-0.1111	0.6896
2006	7-Sep	3 C	15	-0.0045	11.9043	-0.2085	4.9017	-0.0858	0.4390
2006	7-Sep	1 T	15	-0.0016	14.9286	-0.3410	14.1585	-0.3234	3.1959
2006	7-Sep	2 T	15	-0.0010	6.7841	-0.1550	5.6750	-0.1296	1.5746
2006	7-Sep	3 T	15	-0.0065	6.0019	-0.1371	3.1535	-0.0720	0.9817
2006	7-Sep	1 C	30	-0.0105	7.3637	-0.2079	4.6619	-0.1316	0.2126
2006	7-Sep	2 C	30	-0.0099	0.0000	0.0000	6.6164	-0.1868	0.8086
2006	7-Sep	3 C	30	-0.0088	26.5779	-0.7502	18.7156	-0.5283	2.7175
2006	7-Sep	1 T	30	-0.0020	3.3720	-0.1231	4.0766	-0.1488	0.3839
2006	7-Sep	2 T	30	-0.0027	6.1911	-0.2260	7.6139	-0.2779	0.7775
2006	7-Sep	3 T	30	-0.0117	13.1803	-0.4811	3.5430	-0.1293	0.4437
2006	7-Sep	1 C	60	-0.0157	23.2594	-1.1105	13.3610	-0.6379	0.6524
2006	7-Sep	2 C	60	-0.0169	9.6944	-0.4629	6.0209	-0.2875	1.0967

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			cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	7-Sep	3 C	60	-0.0137	9.4686	-0.4521	3.7867	-0.1808	1.0705
2006	7-Sep	1 T	60	-0.0039	5.8718	-0.4112	5.7483	-0.4026	1.1468
2006	7-Sep	2 T	60	-0.0048	15.7214	-1.1011	16.4737	-1.1538	3.7193
2006	7-Sep	3 T	60	-0.0205	23.5235	-1.6475	13.0782	-0.9160	2.3755
2006	7-Sep	1 C	120	-0.0364	10.5571	-1.3353	4.1510	-0.5250	2.0659
2006	7-Sep	2 C	120	-0.0365	8.4891	-1.0737	4.6826	-0.5923	1.2469
2006	7-Sep	3 C	120	-0.0391	3.4282	-0.4336	1.2065	-0.1526	0.1378
2006	7-Sep	1 T	120	-0.0140	2.7067	-0.5008	1.4204	-0.2628	0.8924
2006	7-Sep	2 T	120	-0.0577	0.0000	0.0000	2.0266	-0.3750	4.0251
2006	7-Sep	3 T	120	-0.0620	0.0000	0.0000	1.8369	-0.3399	0.3123
2006	7-Sep	1 C	200	-0.0689	1.7876	-0.4409	0.9694	-0.2391	0.0517
2006	7-Sep	2 C	200	-0.0752	8.8807	-2.1903	1.2578	-0.3102	0.1917
2006	7-Sep	3 C	200	-0.0799	0.0000	0.0000	1.3516	-0.3333	1.2566
2006	7-Sep	1 T	200	-0.0405	0.0000	0.0000	0.6186	-0.2107	0.0000
2006	7-Sep	2 T	200	-0.1109	2.3397	-0.7970	1.0138	-0.3454	0.1834
2006	7-Sep	3 T	200	-0.0950	8.3159	-2.8328	1.2109	-0.4125	0.2331
2006	14-Sep	1 C	15	-0.0221	0.0000	0.0000	6.3887	-0.3892	2.6755
2006	14-Sep	2 C	15	-0.0190	19.8432	-1.2089	13.1699	-0.8023	1.2778
2006	14-Sep	3 C	15	-0.0188	21.7349	-1.3241	16.7969	-1.0233	1.4480
2006	14-Sep	1 T	15	-0.0182	49.1132	-2.9809	31.5535	-1.9151	10.0656
2006	14-Sep	2 T	15	-0.0180	9.9892	-0.6063	6.7852	-0.4118	2.0771
2006	14-Sep	3 T	15	-0.0187	9.0915	-0.5518	5.4214	-0.3291	2.0797
2006	14-Sep	1 C	30	-0.0212	5.3652	-0.3252	4.6697	-0.2831	0.3371
2006	14-Sep	2 C	30	-0.0181	9.7650	-0.5919	6.2922	-0.3814	1.0037
2006	14-Sep	3 C	30	-0.0195	8.6194	-0.5225	11.4513	-0.6941	1.6169
2006	14-Sep	1 T	30	-0.0205	7.9991	-0.5034	4.1789	-0.2630	0.5645
2006	14-Sep	2 T	30	-0.0194	15.8600	-0.9982	8.6871	-0.5467	1.1167
2006	14-Sep	3 T	30	-0.0193	7.0212	-0.4419	4.2006	-0.2644	0.4409
2006	14-Sep	1 C	60	-0.0194	20.5807	-1.2664	12.5964	-0.7751	0.6814
2006	14-Sep	2 C	60	-0.0136	13.4598	-0.8283	5.5359	-0.3407	1.0214
2006	14-Sep	3 C	60	-0.0240	0.0000	0.0000	4.6773	-0.2878	1.0370
2006	14-Sep	1 T	60	-0.0232	10.8083	-0.7409	6.0081	-0.4119	1.2157
2006	14-Sep	2 T	60	-0.0222	15.1224	-1.0367	14.8197	-1.0159	4.4074
2006	14-Sep	3 T	60	-0.0204	25.3505	-1.7378	13.6930	-0.9387	2.2901
2006	14-Sep	1 C	120	-0.0233	8.4999	-0.6676	4.5013	-0.3535	2.0607
2006	14-Sep	2 C	120	-0.0254	4.3381	-0.3407	4.2409	-0.3331	1.3718
2006	14-Sep	3 C	120	-0.0022	0.0000	0.0000	0.5967	-0.0469	1.2627
2006	14-Sep	1 T	120	-0.0362	0.0000	0.0000	2.5957	-0.2664	1.0029
2006	14-Sep	2 T	120	-0.0303	2.4794	-0.2545	1.8293	-0.1878	3.9110
2006	14-Sep	3 T	120	-0.0315	7.4085	-0.7604	1.3042	-0.1339	0.2987
2006	14-Sep	1 C	200	-0.0412	1.1433	-0.1503	1.1848	-0.1557	0.0528
2006	14-Sep	2 C	200	-0.0419	4.2483	-0.5584	1.5068	-0.1981	0.1915
2006	14-Sep	3 C	200	-0.0432	0.0000	0.0000	1.4394	-0.1892	0.1465
2006	14-Sep	1 T	200	-0.0600	0.0000	0.0000	1.1155	-0.1979	0.0220
2006	14-Sep	2 T	200	-0.0529	6.4639	-1.1468	1.2851	-0.2280	0.1844
2006	14-Sep	3 T	200	-0.0557	0.0000	0.0000	1.2768	-0.2265	0.2126

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			cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	21-Sep	1 C	15	-0.0204	3.1882	-0.1999	4.3669	-0.2738	3.4434
2006	21-Sep	2 C	15	-0.0017	16.5644	-1.0384	23.2992	-1.4606	5.0149
2006	21-Sep	3 C	15	-0.0211	13.4395	-0.8425	9.6789	-0.6068	1.0761
2006	21-Sep	1 T	15	-0.0197	141.3593	-9.3235	97.4253	-6.4258	24.5877
2006	21-Sep	2 T	15	-0.0213	16.0641	-1.0595	11.4373	-0.7544	4.6917
2006	21-Sep	3 T	15	-0.0257	8.6409	-0.5699	16.4212	-1.0831	6.3465
2006	21-Sep	1 C	30	-0.0244	3.6643	-0.2818	5.1944	-0.3994	0.4492
2006	21-Sep	2 C	30	-0.0252	5.4052	-0.4156	5.9331	-0.4562	1.9765
2006	21-Sep	3 C	30	-0.0268	19.7478	-1.5186	14.5284	-1.1172	1.4638
2006	21-Sep	1 T	30	-0.0284	11.8182	-0.9765	6.4038	-0.5291	0.7882
2006	21-Sep	2 T	30	-0.0266	11.6482	-0.9625	7.4434	-0.6151	1.4083
2006	21-Sep	3 T	30	-0.0271	6.7626	-0.5588	6.8867	-0.5691	0.3116
2006	21-Sep	1 C	60	-0.0314	19.3038	-1.7950	12.8654	-1.1963	0.5633
2006	21-Sep	2 C	60	-0.0294	6.3144	-0.5872	4.0154	-0.3734	0.4287
2006	21-Sep	3 C	60	-0.0296	7.6050	-0.7072	4.4417	-0.4130	0.9797
2006	21-Sep	1 T	60	-0.0348	8.5598	-0.8448	6.8553	-0.6766	1.0563
2006	21-Sep	2 T	60	-0.0313	19.1431	-1.8894	12.8966	-1.2729	3.8147
2006	21-Sep	3 T	60	-0.0334	18.9429	-1.8696	15.6279	-1.5425	2.1379
2006	21-Sep	1 C	120	-0.0319	4.2107	-0.3971	4.6924	-0.4425	2.0247
2006	21-Sep	2 C	120	-0.0372	0.8014	-0.0756	5.4206	-0.5112	1.5835
2006	21-Sep	3 C	120	-0.0060	0.0000	0.0000	1.0075	-0.0950	1.2664
2006	21-Sep	1 T	120	-0.0320	0.1972	-0.0198	1.8714	-0.1879	1.0634
2006	21-Sep	2 T	120	-0.0325	2.8497	-0.2861	1.7677	-0.1774	3.8910
2006	21-Sep	3 T	120	-0.0314	0.0000	0.0000	1.4610	-0.1467	0.2779
2006	21-Sep	1 C	200	-0.0329	0.0000	0.0000	1.3233	-0.1358	0.0437
2006	21-Sep	2 C	200	-0.0339	0.0000	0.0000	1.8716	-0.1921	0.2039
2006	21-Sep	3 C	200	-0.0358	0.0000	0.0000	1.6437	-0.1687	0.1242
2006	21-Sep	1 T	200	-0.0417	0.9639	-0.1239	1.2240	-0.1573	0.0517
2006	21-Sep	2 T	200	-0.0379	0.0000	0.0000	1.2495	-0.1606	0.1626
2006	21-Sep	3 T	200	-0.0317	0.0000	0.0000	1.3695	-0.1760	0.2141
2006	28-Sep	1 C	15	-0.0050	9.2993	-1.6788	4.8047	-0.8674	5.2956
2006	28-Sep	2 C	15	-0.0012	64.6307	-11.6681	62.0455	-11.2014	11.0888
2006	28-Sep	3 C	15	0.0000	16.6493	-3.0058	8.9043	-1.6075	1.5708
2006	28-Sep	1 T	15	-0.0551	109.5228	-19.4605	80.5579	-14.3139	15.1362
2006	28-Sep	2 T	15	-0.0569	26.2446	-4.6633	19.7237	-3.5046	8.5221
2006	28-Sep	3 T	15	-0.0043	25.8763	-4.5978	23.9578	-4.2569	6.7575
2006	28-Sep	1 C	30	-0.0074	10.2275	-1.6197	6.5122	-1.0313	1.0246
2006	28-Sep	2 C	30	0.0000	13.4684	-2.1330	6.8400	-1.0832	3.5137
2006	28-Sep	3 C	30	-0.0048	16.8042	-2.6612	12.6724	-2.0069	1.3457
2006	28-Sep	1 T	30	-0.0547	4.9302	-0.7296	7.1211	-1.0538	1.3559
2006	28-Sep	2 T	30	-0.0053	6.9305	-1.0256	8.7326	-1.2922	1.8076
2006	28-Sep	3 T	30	-0.0062	10.9043	-1.6136	8.5960	-1.2720	1.8169
2006	28-Sep	1 C	60	-0.0025	43.6904	-5.2691	10.6314	-1.2822	0.7068
2006	28-Sep	2 C	60	0.0000	12.5333	-1.5115	7.6926	-0.9277	0.9929
2006	28-Sep	3 C	60	-0.0010	9.6520	-1.1641	3.6005	-0.4342	0.9338
2006	28-Sep	1 T	60	-0.0362	5.1217	-0.5758	7.7901	-0.8757	1.0932

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			cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	28-Sep	2 T	60	-0.0052	17.9430	-2.0171	12.6935	-1.4270	3.4871
2006	28-Sep	3 T	60	-0.0049	21.9557	-2.4682	14.4780	-1.6276	2.0804
2006	28-Sep	1 C	120	-0.0032	0.0000	0.0000	6.5567	-0.5563	2.1000
2006	28-Sep	2 C	120	-0.0026	0.0000	0.0000	4.6125	-0.3914	1.5581
2006	28-Sep	3 C	120	-0.0014	0.0000	0.0000	0.8391	-0.0712	1.6300
2006	28-Sep	1 T	120	-0.0296	2.3546	-0.2128	2.1508	-0.1944	1.0058
2006	28-Sep	2 T	120	-0.0034	6.6004	-0.5966	1.6292	-0.1473	3.7081
2006	28-Sep	3 T	120	-0.0052	2.7175	-0.2456	1.3520	-0.1222	0.3223
2006	28-Sep	1 C	200	-0.0057	0.0000	0.0000	0.8095	-0.0762	0.0567
2006	28-Sep	2 C	200	-0.0014	3.4221	-0.3220	1.2132	-0.1142	0.2137
2006	28-Sep	3 C	200	0.0000	6.9939	-0.6581	1.0134	-0.0954	0.1616
2006	28-Sep	1 T	200	-0.0366	0.0000	0.0000	1.4445	-0.1620	0.0314
2006	28-Sep	2 T	200	-0.0041	1.6197	-0.1816	1.0515	-0.1179	0.1721
2006	28-Sep	3 T	200	-0.0044	2.0865	-0.2340	1.1075	-0.1242	0.2292
2006	5-Oct	1 C	15	-0.0099	11.4915	-3.7874	3.7480	-1.2353	4.7302
2006	5-Oct	2 C	15	0.0000	46.2652	-15.2484	43.3487	-14.2871	4.1488
2006	5-Oct	3 C	15	0.0000	22.6332	-7.4596	20.8589	-6.8748	1.7936
2006	5-Oct	1 T	15	0.0000	64.6575	-20.3700	62.5630	-19.7101	8.2009
2006	5-Oct	2 T	15	0.0000	14.5644	-4.5884	14.3895	-4.5333	4.4181
2006	5-Oct	3 T	15	-0.0033	21.2380	-6.6909	19.4776	-6.1363	3.1428
2006	5-Oct	1 C	30	0.0000	17.4413	-5.0174	14.6867	-4.2250	1.6008
2006	5-Oct	2 C	30	0.0000	12.5453	-3.6090	6.2515	-1.7984	3.7874
2006	5-Oct	3 C	30	-0.0027	18.5384	-5.3330	13.8023	-3.9706	1.4425
2006	5-Oct	1 T	30	-0.0290	0.8104	-0.2233	9.2781	-2.5560	1.5066
2006	5-Oct	2 T	30	0.0000	14.6655	-4.0403	9.0727	-2.4995	2.4251
2006	5-Oct	3 T	30	-0.0013	11.1730	-3.0781	7.8007	-2.1490	2.8420
2006	5-Oct	1 C	60	-0.0077	10.3384	-2.4616	10.6235	-2.5295	0.6281
2006	5-Oct	2 C	60	0.0000	8.7871	-2.0923	4.5207	-1.0764	0.6332
2006	5-Oct	3 C	60	-0.0111	0.0000	0.0000	4.8570	-1.1565	0.8615
2006	5-Oct	1 T	60	0.0000	4.1280	-0.9190	7.5636	-1.6839	1.0858
2006	5-Oct	2 T	60	0.0000	17.4301	-3.8805	12.4424	-2.7701	3.9922
2006	5-Oct	3 T	60	0.0000	20.1909	-4.4951	15.7080	-3.4971	1.6071
2006	5-Oct	1 C	120	-0.0028	0.0000	0.0000	4.5808	-0.7388	2.2911
2006	5-Oct	2 C	120	0.0000	6.6649	-1.0749	2.8940	-0.4667	1.7260
2006	5-Oct	3 C	120	-0.0044	0.0000	0.0000	0.7384	-0.1191	1.5785
2006	5-Oct	1 T	120	-0.0024	0.0000	0.0000	0.7223	-0.0977	1.0605
2006	5-Oct	2 T	120	0.0000	4.5069	-0.6097	1.6112	-0.2180	3.4625
2006	5-Oct	3 T	120	0.0000	7.5153	-1.0167	1.1710	-0.1584	0.3907
2006	5-Oct	1 C	200	0.0000	6.1153	-0.6003	0.8922	-0.0876	0.0687
2006	5-Oct	2 C	200	0.0000	7.4104	-0.7275	1.0227	-0.1004	0.2377
2006	5-Oct	3 C	200	0.0000	1.7240	-0.1692	1.2231	-0.1201	0.1582
2006	5-Oct	1 T	200	-0.0068	0.0000	0.0000	1.0310	-0.1071	0.0420
2006	5-Oct	2 T	200	0.0000	6.8920	-0.7162	1.0268	-0.1067	0.1827
2006	5-Oct	3 T	200	-0.0148	0.0000	0.0000	2.0466	-0.2127	0.2478
2006	12-Oct	1 C	15	-0.0003	5.1005	-0.6946	2.3668	-0.3223	4.2283
2006	12-Oct	2 C	15	-0.0038	24.3066	-3.3103	22.4094	-3.0519	0.9485

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			cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	12-Oct	3 C	15	-0.0030	17.6492	-2.4037	15.6983	-2.1380	1.4039
2006	12-Oct	1 T	15	-0.0031	35.1906	-4.7032	32.3546	-4.3241	2.7511
2006	12-Oct	2 T	15	0.0000	22.8921	-3.0595	21.3113	-2.8482	3.9676
2006	12-Oct	3 T	15	-0.0062	35.3116	-4.7193	38.7085	-5.1733	4.3087
2006	12-Oct	1 C	30	-0.0018	25.8617	-2.9939	26.8829	-3.1121	4.8113
2006	12-Oct	2 C	30	0.0000	8.8981	-1.0301	7.5487	-0.8739	3.2788
2006	12-Oct	3 C	30	-0.0035	15.6084	-1.8069	12.8978	-1.4931	1.3645
2006	12-Oct	1 T	30	0.0000	15.7258	-1.7814	10.3915	-1.1771	2.9538
2006	12-Oct	2 T	30	-0.0005	15.5335	-1.7596	11.3908	-1.2903	2.4600
2006	12-Oct	3 T	30	0.0000	19.2375	-2.1792	17.5271	-1.9855	3.3808
2006	12-Oct	1 C	60	-0.0011	12.8842	-1.2618	10.1740	-0.9964	0.6547
2006	12-Oct	2 C	60	0.0000	9.2722	-0.9081	7.3437	-0.7192	1.3405
2006	12-Oct	3 C	60	-0.0018	8.1546	-0.7986	3.7262	-0.3649	0.7321
2006	12-Oct	1 T	60	0.0000	9.2380	-1.0120	7.0118	-0.7681	1.1899
2006	12-Oct	2 T	60	0.0000	20.8819	-2.2875	19.8664	-2.1763	3.7654
2006	12-Oct	3 T	60	0.0000	13.2959	-1.4565	13.2576	-1.4523	1.4798
2006	12-Oct	1 C	120	0.0000	9.9064	-1.3080	6.1142	-0.8073	2.3005
2006	12-Oct	2 C	120	-0.0022	3.1015	-0.4095	3.5830	-0.4731	1.6422
2006	12-Oct	3 C	120	-0.0025	0.0000	0.0000	0.5252	-0.0693	1.3824
2006	12-Oct	1 T	120	-0.0081	6.7211	-1.0154	1.8439	-0.2786	1.2008
2006	12-Oct	2 T	120	-0.0040	11.3960	-1.7216	1.7869	-0.2700	3.4725
2006	12-Oct	3 T	120	-0.0003	5.9151	-0.8936	1.2665	-0.1913	0.4083
2006	12-Oct	1 C	200	-0.0019	6.7656	-0.9609	1.0159	-0.1443	0.0673
2006	12-Oct	2 C	200	0.0000	5.5766	-0.7921	1.3677	-0.1943	0.2190
2006	12-Oct	3 C	200	0.0000	0.0000	0.0000	1.2412	-0.1763	0.1256
2006	12-Oct	1 T	200	-0.0052	4.2476	-0.5405	1.0793	-0.1374	0.0550
2006	12-Oct	2 T	200	0.0000	6.9139	-0.8799	1.1179	-0.1423	0.1721
2006	12-Oct	3 T	200	0.0000	5.7194	-0.7278	1.1917	-0.1517	0.2350
2006	19-Oct	1 C	15	0.0000	5.2076	-2.4252	2.9898	-1.3924	4.6790
2006	19-Oct	2 C	15	-0.0075	12.8330	-5.9764	21.0147	-9.7867	1.0020
2006	19-Oct	3 C	15	-0.0255	10.0143	-4.6637	12.1272	-5.6478	1.4088
2006	19-Oct	1 T	15	0.0000	18.1504	-7.9932	26.1194	-11.5027	1.8327
2006	19-Oct	2 T	15	-0.0223	23.7116	-10.4423	18.1313	-7.9848	3.1789
2006	19-Oct	3 T	15	-0.0062	37.9935	-16.7320	36.8521	-16.2293	2.6690
2006	19-Oct	1 C	30	-0.0058	21.4649	-8.6193	21.5289	-8.6450	4.9600
2006	19-Oct	2 C	30	-0.0195	2.6378	-1.0592	4.4276	-1.7779	2.9969
2006	19-Oct	3 C	30	-0.0257	10.5070	-4.2191	14.6395	-5.8785	1.6473
2006	19-Oct	1 T	30	-0.0071	16.1502	-5.6764	14.2255	-4.9999	4.2990
2006	19-Oct	2 T	30	-0.0163	7.5122	-2.6403	10.9218	-3.8387	2.6569
2006	19-Oct	3 T	30	-0.0046	17.8265	-6.2655	23.1533	-8.1378	5.6031
2006	19-Oct	1 C	60	0.0000	10.6021	-2.8019	9.9079	-2.6184	0.5930
2006	19-Oct	2 C	60	-0.0135	4.1672	-1.1013	5.5499	-1.4667	0.7392
2006	19-Oct	3 C	60	-0.0132	0.0000	0.0000	3.7063	-0.9795	0.6897
2006	19-Oct	1 T	60	-0.0001	10.5188	-2.0522	7.3147	-1.4271	1.0503
2006	19-Oct	2 T	60	0.0000	22.0855	-4.3088	22.3882	-4.3678	4.1438
2006	19-Oct	3 T	60	-0.0043	12.1143	-2.3634	13.1760	-2.5706	1.2015

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			cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	19-Oct	1 C	120	-0.0034	0.9172	-0.1265	4.4220	-0.6097	2.2954
2006	19-Oct	2 C	120	-0.0087	0.0000	0.0000	3.1473	-0.4340	1.6500
2006	19-Oct	3 C	120	-0.0031	0.0000	0.0000	0.6266	-0.0864	1.3708
2006	19-Oct	1 T	120	-0.0013	9.0469	-1.1848	1.2342	-0.1616	0.0630
2006	19-Oct	2 T	120	0.0000	2.7291	-0.3574	2.3009	-0.3013	3.0951
2006	19-Oct	3 T	120	-0.0030	1.7229	-0.2256	1.9736	-0.2585	0.5335
2006	19-Oct	1 C	200	-0.0091	0.0000	0.0000	1.1920	-0.1576	0.0511
2006	19-Oct	2 C	200	-0.0085	0.0000	0.0000	1.2995	-0.1719	0.1835
2006	19-Oct	3 C	200	-0.0097	0.0000	0.0000	1.5087	-0.1995	0.1224
2006	19-Oct	1 T	200	-0.0002	6.3071	-0.8439	1.9499	-0.2609	1.2212
2006	19-Oct	2 T	200	-0.0012	2.2750	-0.3044	1.5894	-0.2126	0.1563
2006	19-Oct	3 T	200	-0.0001	6.5822	-0.8807	1.6560	-0.2216	0.2110
2006	26-Oct	1 C	15	0.0000	4.3682	-7.1523	1.9098	-3.1269	3.3469
2006	26-Oct	2 C	15	0.0000	16.8912	-27.6567	15.9735	-26.1540	0.4980
2006	26-Oct	3 C	15	0.0000	12.6020	-20.6337	2.7722	-4.5390	0.4044
2006	26-Oct	1 T	15	-0.1069	13.8825	-22.8607	16.5774	-27.2985	0.7808
2006	26-Oct	2 T	15	0.0000	10.8293	-17.8329	5.0645	-8.3399	2.5484
2006	26-Oct	3 T	15	0.0000	12.2234	-20.1286	5.7676	-9.4977	0.8089
2006	26-Oct	1 C	30	-0.0198	10.3090	-17.2146	21.6066	-36.0803	6.2003
2006	26-Oct	2 C	30	-0.0176	7.3629	-12.2950	3.0965	-5.1708	1.5143
2006	26-Oct	3 C	30	-0.0022	8.8967	-14.8564	10.4067	-17.3779	1.9353
2006	26-Oct	1 T	30	-0.0956	3.7213	-6.3138	9.3910	-15.9333	3.1028
2006	26-Oct	2 T	30	0.0000	16.2133	-27.5084	8.2839	-14.0550	4.3237
2006	26-Oct	3 T	30	0.0000	8.2524	-14.0014	4.6182	-7.8356	1.1567
2006	26-Oct	1 C	60	-0.0482	0.0000	0.0000	11.1092	-18.7093	0.6638
2006	26-Oct	2 C	60	0.0000	12.5581	-21.1494	5.6377	-9.4946	1.0409
2006	26-Oct	3 C	60	0.0000	5.2530	-8.8467	2.4168	-4.0702	0.6768
2006	26-Oct	1 T	60	-0.1098	1.6124	-2.8314	8.3548	-14.6717	2.0443
2006	26-Oct	2 T	60	0.0000	0.0000	0.0000	10.5211	-18.4757	5.3034
2006	26-Oct	3 T	60	0.0000	15.8370	-27.8109	11.3176	-19.8745	1.0330
2006	26-Oct	1 C	120	0.0000	6.3398	-10.0200	2.3055	-3.6437	1.9555
2006	26-Oct	2 C	120	0.0000	10.9268	-17.2696	2.7284	-4.3121	1.8215
2006	26-Oct	3 C	120	0.0000	9.2071	-14.5516	2.2856	-3.6123	1.5187
2006	26-Oct	1 T	120	-0.0134	5.6879	-9.0722	1.7105	-2.7283	1.2652
2006	26-Oct	2 T	120	-0.0324	0.0000	0.0000	0.6759	-1.0780	3.3346
2006	26-Oct	3 T	120	0.0000	9.0408	-14.4199	1.5473	-2.4679	0.6101
2006	26-Oct	1 C	200	0.0000	9.3599	-13.3310	0.9776	-1.3924	0.0728
2006	26-Oct	2 C	200	-0.0385	0.0000	0.0000	0.5045	-0.7185	0.1869
2006	26-Oct	3 C	200	0.0000	8.3169	-11.8455	1.0513	-1.4974	0.1590
2006	26-Oct	1 T	200	-0.0381	3.5571	-4.7902	0.8776	-1.1818	0.0463
2006	26-Oct	2 T	200	-0.0103	0.0000	0.0000	0.3503	-0.4717	0.1471
2006	26-Oct	3 T	200	0.0000	8.0374	-10.8237	0.9550	-1.2860	0.2250
2006	2-Nov	1 C	15	0.0014	0.0000	0.0000	3.0356	0.1191	3.1282
2006	2-Nov	2 C	15	0.0005	4.1879	0.1643	3.5291	0.1385	0.1830
2006	2-Nov	3 C	15	0.0000	8.4854	0.3329	5.2143	0.2046	0.2779
2006	2-Nov	1 T	15	0.0000	18.8315	0.5174	12.0888	0.3322	0.7234

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			cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	2-Nov	2 T	15	0.0000	8.3938	0.2306	8.1786	0.2247	1.0322
2006	2-Nov	3 T	15	0.0000	9.4570	0.2599	4.7384	0.1302	0.4161
2006	2-Nov	1 C	30	-0.0001	12.0343	-0.0494	8.8534	-0.0364	3.3071
2006	2-Nov	2 C	30	-0.0001	2.9509	-0.0121	8.5083	-0.0350	0.5252
2006	2-Nov	3 C	30	-0.0001	9.2145	-0.0379	6.0440	-0.0248	1.6851
2006	2-Nov	1 T	30	-0.0012	0.0000	0.0000	11.7673	-0.3559	3.1885
2006	2-Nov	2 T	30	-0.0004	11.7427	-0.3552	7.8047	-0.2361	3.8615
2006	2-Nov	3 T	30	0.0000	8.3221	-0.2517	4.6564	-0.1408	1.0490
2006	2-Nov	1 C	60	0.0000	15.6085	-0.9724	11.1881	-0.6970	0.6435
2006	2-Nov	2 C	60	-0.0024	11.1774	-0.6964	6.3353	-0.3947	1.3130
2006	2-Nov	3 C	60	0.0000	7.3166	-0.4558	3.1365	-0.1954	0.6490
2006	2-Nov	1 T	60	-0.0007	10.7159	-1.0730	6.9573	-0.6966	2.2165
2006	2-Nov	2 T	60	0.0000	22.5173	-2.2547	16.1288	-1.6150	3.9272
2006	2-Nov	3 T	60	-0.0006	16.3012	-1.6323	10.1920	-1.0205	0.8498
2006	2-Nov	1 C	120	0.0000	13.6422	-1.8713	10.0687	-1.3811	2.6783
2006	2-Nov	2 C	120	0.0000	3.7305	-0.5117	2.8641	-0.3929	1.7453
2006	2-Nov	3 C	120	-0.0026	0.0000	0.0000	0.8095	-0.1110	1.3425
2006	2-Nov	1 T	120	0.0000	5.9517	-1.2240	1.9637	-0.4039	1.2604
2006	2-Nov	2 T	120	-0.0005	10.5662	-2.1731	1.8229	-0.3749	3.6756
2006	2-Nov	3 T	120	0.0000	4.3804	-0.9009	0.8917	-0.1834	0.9188
2006	2-Nov	1 C	200	0.0000	5.0835	-1.4038	1.1058	-0.3054	0.0690
2006	2-Nov	2 C	200	0.0000	3.7286	-1.0297	1.3543	-0.3740	0.2548
2006	2-Nov	3 C	200	0.0000	3.1758	-0.8770	2.1116	-0.5831	0.2366
2006	2-Nov	1 T	200	-0.0052	3.8387	-1.4764	1.0523	-0.4047	0.0541
2006	2-Nov	2 T	200	0.0000	4.7989	-1.8457	1.1767	-0.4526	0.1862
2006	2-Nov	3 T	200	0.0000	1.4018	-0.5391	0.0000	0.0000	0.2019
2006	9-Nov	1 C	15	0.0000	10.1587	-4.8524	2.4259	-1.1588	3.0100
2006	9-Nov	2 C	15	-0.0050	0.5307	-0.2535	1.1115	-0.5309	0.0838
2006	9-Nov	3 C	15	0.0000	5.9803	-2.8566	4.4896	-2.1445	0.4482
2006	9-Nov	1 T	15	0.0000	14.2307	-6.4733	9.5339	-4.3368	0.4288
2006	9-Nov	2 T	15	0.0000	7.1390	-3.2474	4.5578	-2.0733	1.6506
2006	9-Nov	3 T	15	-0.0090	4.5876	-2.0868	5.6289	-2.5605	0.3537
2006	9-Nov	1 C	30	0.0000	20.7579	-6.9358	18.2513	-6.0983	3.8801
2006	9-Nov	2 C	30	0.0000	9.3004	-3.1075	6.0219	-2.0121	0.9438
2006	9-Nov	3 C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	9-Nov	1 T	30	-0.0094	3.4771	-0.9944	4.4629	-1.2763	1.7043
2006	9-Nov	2 T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	9-Nov	3 T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	9-Nov	1 C	60	0.0000	14.3962	-1.1916	9.1599	-0.7582	0.8932
2006	9-Nov	2 C	60	-0.0020	4.5148	-0.3737	6.5921	-0.5456	0.4455
2006	9-Nov	3 C	60	0.0000	7.2230	-0.5978	3.1791	-0.2631	0.7334
2006	9-Nov	1 T	60	-0.0006	4.2250	-0.1310	6.3781	-0.1978	2.5405
2006	9-Nov	2 T	60	-0.0009	4.9012	-0.1520	6.3223	-0.1961	4.2944
2006	9-Nov	3 T	60						
2006	9-Nov	1 C	120	-0.0004	1.4465	-0.0154	11.5968	-0.1235	2.6288
2006	9-Nov	2 C	120	0.0000	6.0210	-0.0641	3.2192	-0.0343	1.6711

year date rep trt depth Fe2714 K_4047 K_4047 K_7664 K_7664 Mg2790

			cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	9-Nov	3 C	120	0.0000	5.1078	-0.0544	2.5652	-0.0273	1.3718
2006	9-Nov	1 T	120	-0.0001	5.7980	-0.2316	2.1296	-0.0851	1.0200
2006	9-Nov	2 T	120	0.0000	6.2110	-0.2481	1.9438	-0.0777	3.6480
2006	9-Nov	3 T	120	0.0000	5.1570	-0.2060	3.8744	-0.1548	0.8133
2006	9-Nov	1 C	200	0.0000	0.0000	0.0000	1.3750	-0.1638	0.0682
2006	9-Nov	2 C	200	0.0000	9.9533	-1.1856	2.6157	-0.3116	0.5589
2006	9-Nov	3 C	200	0.0000	1.3010	-0.1550	1.4250	-0.1697	0.1416
2006	9-Nov	1 T	200	-0.0025	0.0000	0.0000	1.2172	-0.2066	0.0418
2006	9-Nov	2 T	200	0.0000	0.4336	-0.0736	1.2959	-0.2199	0.1775
2006	9-Nov	3 T	200	-0.0012	0.0000	0.0000	1.3229	-0.2245	0.2251
2006	16-Nov	1 C	15	-0.0374	11.6601	-6.8494	3.6175	-2.1250	3.3816
2006	16-Nov	2 C	15	0.0000	0.0000	0.0000	2.0398	-1.1982	0.0814
2006	16-Nov	3 C	15	-0.0057	7.4876	-4.3984	3.1348	-1.8415	0.3532
2006	16-Nov	1 T	15	-0.0034	7.7331	-4.6424	9.5984	-5.7622	0.4039
2006	16-Nov	2 T	15	-0.0071	5.7209	-3.4344	5.4683	-3.2828	1.2335
2006	16-Nov	3 T	15	0.0000	8.5026	-5.1043	6.3145	-3.7908	0.5636
2006	16-Nov	1 C	30	0.0000	16.8802	-9.4260	15.4529	-8.6290	2.7190
2006	16-Nov	2 C	30	0.0000	6.4549	-3.6045	3.0868	-1.7237	0.2397
2006	16-Nov	3 C	30	-0.0052	18.0199	-10.0624	15.6051	-8.7139	1.5770
2006	16-Nov	1 T	30	0.0000	10.2386	-6.1630	4.9209	-2.9621	1.2206
2006	16-Nov	2 T	30	-0.0121	9.4554	-5.6916	8.7575	-5.2715	3.3976
2006	16-Nov	3 T	30	0.0000	6.2409	-3.7566	3.9846	-2.3985	1.0121
2006	16-Nov	1 C	60	0.0000	9.3713	-5.1846	10.4447	-5.7784	0.7909
2006	16-Nov	2 C	60	0.0000	6.5970	-3.6497	4.4662	-2.4709	0.4981
2006	16-Nov	3 C	60	-0.0349	0.0000	0.0000	3.6920	-2.0426	0.6459
2006	16-Nov	1 T	60	0.0000	2.6441	-1.5049	3.7365	-2.1267	1.4299
2006	16-Nov	2 T	60	0.0000	14.9620	-8.5159	14.4633	-8.2320	2.6906
2006	16-Nov	3 T	60	0.0000	11.9906	-6.8247	10.2775	-5.8496	0.8713
2006	16-Nov	1 C	120	-0.0013	3.2864	-0.8016	3.7202	-0.9074	1.9866
2006	16-Nov	2 C	120	0.0000	4.7354	-1.1550	3.3322	-0.8127	1.5672
2006	16-Nov	3 C	120	-0.0163	0.0000	0.0000	2.5385	-0.6191	1.3966
2006	16-Nov	1 T	120	-0.0020	5.9290	-0.9529	3.0929	-0.4971	1.0314
2006	16-Nov	2 T	120	0.0000	6.4047	-1.0294	2.1815	-0.3506	3.5876
2006	16-Nov	3 T	120	-0.0002	5.8652	-0.9427	2.4664	-0.3964	0.6788
2006	16-Nov	1 C	200	-0.0015	3.0016	-0.2410	1.4198	-0.1140	0.0596
2006	16-Nov	2 C	200	-0.0005	4.8179	-0.3869	1.8356	-0.1474	0.2767
2006	16-Nov	3 C	200	-0.0027	0.0000	0.0000	1.4571	-0.1170	0.1166
2006	16-Nov	1 T	200	-0.0021	0.0000	0.0000	1.3995	-0.1424	0.0427
2006	16-Nov	2 T	200	0.0000	1.9888	-0.2024	1.4523	-0.1478	0.1689
2006	16-Nov	3 T	200	-0.0009	1.7420	-0.1773	1.4675	-0.1494	0.2132
2006	23-Nov	1 C	15	-0.0055	0.0000	0.0000	3.2888	-0.8390	3.5042
2006	23-Nov	2 C	15	-0.0017	0.0000	0.0000	2.5659	-0.6546	0.0620
2006	23-Nov	3 C	15	-0.0046	0.0000	0.0000	5.5314	-1.4111	0.3229
2006	23-Nov	1 T	15	-0.0026	1.6241	-0.4254	7.1920	-1.8840	0.2888
2006	23-Nov	2 T	15	-0.0076	3.4038	-0.8916	5.4538	-1.4286	0.9226
2006	23-Nov	3 T	15	-0.0081	0.0000	0.0000	6.5404	-1.7133	0.8929

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			cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml	
2006	23-Nov	1	C	30	-0.0012	21.3623	-5.2839	19.7366	-4.8818	2.2815
2006	23-Nov	2	C	30	-0.0298	0.0000	0.0000	4.7853	-1.1836	0.1877
2006	23-Nov	3	C	30	-0.0082	15.7225	-3.8889	15.5617	-3.8491	1.5444
2006	23-Nov	1	T	30	-0.0026	2.1437	-0.5634	9.3021	-2.4449	1.8180
2006	23-Nov	2	T	30	0.0000	1.0868	-0.2856	8.5256	-2.2408	2.9925
2006	23-Nov	3	T	30	-0.0016	0.0000	0.0000	4.9291	-1.2955	1.2792
2006	23-Nov	1	C	60	-0.0063	8.8292	-2.0786	9.7464	-2.2945	0.8442
2006	23-Nov	2	C	60	-0.0106	0.0000	0.0000	3.6413	-0.8572	0.2905
2006	23-Nov	3	C	60	-0.0038	0.0000	0.0000	3.6056	-0.8488	0.6642
2006	23-Nov	1	T	60	-0.0111	0.0000	0.0000	11.9844	-3.1991	2.4133
2006	23-Nov	2	T	60	0.0000	7.4257	-1.9822	13.6200	-3.6358	2.2579
2006	23-Nov	3	T	60	-0.0044	3.4639	-0.9247	12.6972	-3.3894	0.9433
2006	23-Nov	1	C	120	-0.0025	0.0000	0.0000	6.6956	-1.7001	2.2452
2006	23-Nov	2	C	120	-0.0022	0.0000	0.0000	3.6528	-0.9275	1.7642
2006	23-Nov	3	C	120	0.0000	0.0000	0.0000	2.3808	-0.6045	1.6511
2006	23-Nov	1	T	120	-0.0008	0.0000	0.0000	2.2206	-0.6371	0.7724
2006	23-Nov	2	T	120	-0.0027	0.0000	0.0000	2.4103	-0.6916	3.9366
2006	23-Nov	3	T	120	0.0000	0.0000	0.0000	2.2836	-0.6552	0.8080
2006	23-Nov	1	C	200	-0.0078	0.0000	0.0000	1.7772	-0.4403	0.0377
2006	23-Nov	2	C	200	-0.0020	0.0000	0.0000	1.9598	-0.4856	0.2460
2006	23-Nov	3	C	200	-0.0052	0.0000	0.0000	1.7916	-0.4439	0.1163
2006	23-Nov	1	T	200	-0.0098	0.0000	0.0000	1.5458	-0.2948	0.0137
2006	23-Nov	2	T	200	-0.0168	0.0000	0.0000	2.7398	-0.5225	0.1940
2006	23-Nov	3	T	200	-0.0067	0.0000	0.0000	1.9531	-0.3725	0.2181
2006	30-Nov	1	C	15	-0.0101	0.0000	0.0000	4.1534	-1.2668	2.1155
2006	30-Nov	2	C	15	-0.0116	0.0000	0.0000	10.9924	-3.3528	0.4217
2006	30-Nov	3	C	15	-0.0094	0.0000	0.0000	4.5818	-1.3975	0.1296
2006	30-Nov	1	T	15	-0.0024	2.6564	-0.8414	7.5402	-2.3883	0.2857
2006	30-Nov	2	T	15	-0.0068	0.0000	0.0000	5.9159	-1.8738	0.8563
2006	30-Nov	3	T	15	-0.0050	0.0000	0.0000	9.3959	-2.9760	0.5607
2006	30-Nov	1	C	30	-0.0122	13.0868	-4.0692	17.7494	-5.5189	1.2845
2006	30-Nov	2	C	30	0.0000	0.0000	0.0000	3.8340	-1.1921	0.1586
2006	30-Nov	3	C	30	-0.0046	5.7612	-1.7914	13.4811	-4.1918	1.2467
2006	30-Nov	1	T	30	0.0000	0.0000	0.0000	4.6297	-1.4383	0.7440
2006	30-Nov	2	T	30	-0.0014	0.0000	0.0000	10.1684	-3.1589	2.5420
2006	30-Nov	3	T	30	-0.0234	0.0000	0.0000	8.2403	-2.5599	1.0773
2006	30-Nov	1	C	60	-0.0121	4.1172	-1.1875	12.6450	-3.6471	0.7294
2006	30-Nov	2	C	60	-0.0037	0.0000	0.0000	3.2532	-0.9383	0.1631
2006	30-Nov	3	C	60	-0.0247	0.0000	0.0000	4.9505	-1.4278	0.6621
2006	30-Nov	1	T	60	-0.0013	1.3791	-0.4004	7.6673	-2.2258	2.1837
2006	30-Nov	2	T	60	-0.0099	3.9553	-1.1482	13.5080	-3.9213	2.0544
2006	30-Nov	3	T	60	0.0000	4.3008	-1.2485	12.2216	-3.5479	1.1167
2006	30-Nov	1	C	120	-0.0057	1.8253	-0.4437	13.8499	-3.3666	2.8512
2006	30-Nov	2	C	120	-0.0050	0.0000	0.0000	4.0082	-0.9743	1.5658
2006	30-Nov	3	C	120	-0.0007	0.0000	0.0000	3.0992	-0.7533	1.3879
2006	30-Nov	1	T	120	-0.0017	0.0000	0.0000	3.7512	-0.8893	0.8565

year date rep trt depth Fe2714 K_4047 K_4047 K_7664 K_7664 Mg2790

			cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	30-Nov	2 T	120	-0.0050	0.0000	0.0000	2.9686	-0.7037	3.9987
2006	30-Nov	3 T	120	-0.0021	0.0000	0.0000	2.9866	-0.7080	0.7791
2006	30-Nov	1 C	200	-0.0102	0.0000	0.0000	1.9483	-0.4495	0.0000
2006	30-Nov	2 C	200	-0.0066	0.0000	0.0000	2.2293	-0.5143	0.2045
2006	30-Nov	3 C	200	0.0000	0.0000	0.0000	2.0824	-0.4804	0.0973
2006	30-Nov	1 T	200	-0.0185	0.0000	0.0000	1.9595	-0.4409	0.0000
2006	30-Nov	2 T	200	-0.0074	0.0000	0.0000	2.0862	-0.4694	0.1535
2006	30-Nov	3 T	200	0.0000	0.0000	0.0000	2.1635	-0.4868	0.2009
2006	7-Dec	1 T	15						
2006	7-Dec	2 T	15						
2006	7-Dec	3 T	15	-0.0002	1.4976	-0.1314	6.1875	-0.5428	0.6746
2006	7-Dec	1 C	30	-0.0008	12.5497	-0.2136	15.8733	-0.2702	0.6307
2006	7-Dec	2 C	30	-0.0003	0.0000	0.0000	2.0280	-0.0345	0.1346
2006	7-Dec	3 C	30						
2006	7-Dec	1 T	30	0.0001	0.0000	0.0000	3.2075	0.0234	0.3884
2006	7-Dec	2 T	30	0.0000	0.0000	0.0000	11.1895	0.0818	2.3726
2006	7-Dec	3 T	30	0.0002	0.1441	0.0011	6.7117	0.0491	0.9683
2006	7-Dec	1 C	60	0.0003	2.4447	0.0188	10.0503	0.0771	0.7069
2006	7-Dec	2 C	60	0.0001	0.0000	0.0000	2.7086	0.0208	0.8048
2006	7-Dec	3 C	60	0.0003	0.0000	0.0000	4.6115	0.0354	0.6301
2006	7-Dec	1 T	60	-0.0006	0.0000	0.0000	12.3110	-0.1892	2.5479
2006	7-Dec	2 T	60	0.0000	2.4033	-0.0369	13.0964	-0.2013	2.7042
2006	7-Dec	3 T	60	0.0000	9.3750	-0.1441	14.3710	-0.2209	1.0026
2006	7-Dec	1 C	120	-0.0004	14.0784	-0.9231	16.4108	-1.0761	2.7925
2006	7-Dec	2 C	120	-0.0036	0.0000	0.0000	4.1749	-0.2738	1.5611
2006	7-Dec	3 C	120	-0.0011	0.0000	0.0000	0.8848	-0.0580	1.5526
2006	7-Dec	1 T	120	-0.0037	0.0000	0.0000	2.5925	-0.2742	0.7451
2006	7-Dec	2 T	120	-0.0027	0.0000	0.0000	3.1408	-0.3322	4.1417
2006	7-Dec	3 T	120	-0.0045	0.0000	0.0000	4.0568	-0.4291	1.2765
2006	7-Dec	1 C	200	-0.0061	0.0000	0.0000	2.1923	-0.3826	0.0274
2006	7-Dec	2 C	200	-0.0064	0.0000	0.0000	2.3628	-0.4124	0.2120
2006	7-Dec	3 C	200	-0.0024	0.0000	0.0000	2.1664	-0.3781	0.0969
2006	7-Dec	1 T	200	-0.0095	0.0000	0.0000	2.0286	-0.4194	0.0051
2006	7-Dec	2 T	200	-0.0063	0.0000	0.0000	2.1288	-0.4401	0.1528
2006	7-Dec	3 T	200	-0.0047	0.0000	0.0000	2.3623	-0.4884	0.2062
2006	14-Dec	1 C	15	0.0008	0.0000	0.0000	1.3478	0.0304	0.3459
2006	14-Dec	2 C	15	0.0005	0.0000	0.0000	6.2603	0.1410	0.4013
2006	14-Dec	3 C	15	0.0006	0.0000	0.0000	3.0058	0.0677	0.1235
2006	14-Dec	1 T	15	0.0000	0.0000	0.0000	8.1902	0.0028	0.2614
2006	14-Dec	2 T	15	0.0000	0.0000	0.0000	6.9852	0.0024	0.8722
2006	14-Dec	3 T	15	0.0000	0.0000	0.0000	11.6111	0.0039	0.2317
2006	14-Dec	1 C	30	-0.0007	22.3447	-0.5670	26.3958	-0.6698	0.8922
2006	14-Dec	2 C	30	-0.0014	0.0000	0.0000	2.9299	-0.0743	0.1534
2006	14-Dec	3 C	30	-0.0010	0.0000	0.0000	13.9281	-0.3534	2.4454
2006	14-Dec	1 T	30	-0.0016	0.0000	0.0000	5.8899	-0.5487	0.6651
2006	14-Dec	2 T	30	-0.0035	0.0000	0.0000	10.7966	-1.0058	2.9911

year date rep trt depth Fe2714 K_4047 K_4047 K_7664 K_7664 Mg2790

			cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	14-Dec	3 T	30	-0.0019	0.0000	0.0000	9.1449	-0.8520	0.8398
2006	14-Dec	1 C	60	-0.0036	0.0000	0.0000	10.3459	-0.9048	0.6147
2006	14-Dec	2 C	60	-0.0021	0.0000	0.0000	3.3040	-0.2890	0.5986
2006	14-Dec	3 C	60	-0.0015	0.0000	0.0000	3.3266	-0.2909	0.6079
2006	14-Dec	1 T	60	-0.0062	0.0000	0.0000	13.1155	-1.1071	2.2336
2006	14-Dec	2 T	60	-0.0052	0.0000	0.0000	14.1215	-1.1920	1.8704
2006	14-Dec	3 T	60	-0.0021	0.0000	0.0000	14.4876	-1.2229	0.8787
2006	14-Dec	1 C	120	-0.0016	12.2796	-0.6136	15.5817	-0.7786	2.9084
2006	14-Dec	2 C	120	-0.0037	0.0000	0.0000	3.2058	-0.1602	1.6982
2006	14-Dec	3 C	120	-0.0047	0.0000	0.0000	3.7629	-0.1880	1.6454
2006	14-Dec	1 T	120	-0.0029	0.0000	0.0000	3.4779	-0.2127	0.8368
2006	14-Dec	2 T	120	-0.0030	0.0000	0.0000	3.3010	-0.2019	4.2173
2006	14-Dec	3 T	120	0.0000	0.0000	0.0000	3.3348	-0.2039	0.8254
2006	14-Dec	1 C	200	-0.0140	0.0000	0.0000	2.1419	-0.2077	0.0418
2006	14-Dec	2 C	200	-0.0043	0.0000	0.0000	1.4169	-0.1374	0.2455
2006	14-Dec	3 C	200	-0.0045	0.0000	0.0000	1.8766	-0.1820	0.1490
2006	14-Dec	1 T	200	-0.0042	0.0000	0.0000	2.2250	-0.2872	0.0016
2006	14-Dec	2 T	200	-0.0033	0.0000	0.0000	2.2645	-0.2923	0.1533
2006	14-Dec	3 T	200	-0.0055	0.0000	0.0000	1.6501	-0.2130	0.1953

year	date	rep	trt	depth	Mg2790	Mo2020	Mo2020	Na5889	Na5889	Ni2316
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml

2006	21-Apr	1 C	15	-0.0135	0.0000	0.0000	0.3586	-0.0280	0.0000
2006	21-Apr	2 C	15	-0.0900	0.0011	-0.0001	0.7280	-0.0568	0.0016
2006	21-Apr	3 C	15	-0.0691	0.0029	-0.0002	0.6755	-0.0527	0.0000
2006	21-Apr	1 T	15	-0.0456	0.0121	-0.0009	0.6914	-0.0493	0.0013
2006	21-Apr	2 T	15	-0.1955	0.0022	-0.0002	6.6558	-0.4746	0.4201
2006	21-Apr	3 T	15	-0.0093	0.0018	-0.0001	0.3104	-0.0221	0.0000
2006	21-Apr	1 C	30	-0.0722	0.0040	-0.0002	2.2180	-0.0922	0.0065
2006	21-Apr	2 C	30	-0.0141	0.0000	0.0000	3.2019	-0.1331	0.0007
2006	21-Apr	3 C	30						
2006	21-Apr	1 T	30	-0.0033	0.0051	-0.0002	0.2798	-0.0103	0.0016
2006	21-Apr	2 T	30						
2006	21-Apr	3 T	30	-0.0158	0.0018	-0.0001	1.1328	-0.0417	0.0072
2006	21-Apr	1 C	60						
2006	21-Apr	2 C	60	-0.0083	0.0000	0.0000	0.8500	-0.0187	0.0000
2006	21-Apr	3 C	60	-0.0268	0.0000	0.0000	0.6416	-0.0141	0.0000
2006	27-Apr	1 C	15	-0.3770	0.0026	-0.0030	0.3401	-0.3919	0.0000
2006	27-Apr	2 C	15	-1.8994	0.0017	-0.0020	0.5017	-0.5781	0.0048
2006	27-Apr	3 C	15	-1.6246	0.0000	0.0000	0.4385	-0.5053	0.0000
2006	27-Apr	1 T	15	-0.6249	0.0009	-0.0010	0.3517	-0.4007	0.0004
2006	27-Apr	2 T	15	-1.7323	0.0015	-0.0017	0.8945	-1.0194	0.0044
2006	27-Apr	3 T	15	-0.2754	0.0000	0.0000	0.3085	-0.3515	0.0000
2006	27-Apr	1 C	30	-1.8994	0.0000	0.0000	0.7830	-0.8490	0.0003
2006	27-Apr	2 C	30	-0.2606	0.0016	-0.0017	0.6264	-0.6792	0.0000
2006	27-Apr	3 C	30	-1.7236	0.0015	-0.0017	1.7268	-1.8723	0.0027
2006	27-Apr	1 T	30	-0.7861	0.0034	-0.0036	0.3190	-0.3389	0.0004
2006	27-Apr	2 T	30	-3.4000	0.0000	0.0000	0.6767	-0.7189	0.0016
2006	27-Apr	3 T	30	-2.3603	0.0000	0.0000	0.7450	-0.7914	0.0017
2006	27-Apr	1 C	60	-2.2262	0.0031	-0.0028	1.5680	-1.4231	0.0019
2006	27-Apr	2 C	60	-0.3031	0.0000	0.0000	0.3325	-0.3018	0.0000
2006	27-Apr	3 C	60	-0.8361	0.0000	0.0000	0.3503	-0.3179	0.0000
2006	27-Apr	1 T	60	-0.3131	0.0021	-0.0017	1.1239	-0.9024	0.0016
2006	27-Apr	2 T	60	-5.4374	0.0012	-0.0010	10.1076	-8.1160	0.0111
2006	27-Apr	3 T	60	-0.8254	0.0032	-0.0026	1.4942	-1.1998	0.0024
2006	27-Apr	1 C	120	-0.3483	0.0002	-0.0001	1.1670	-0.4538	0.0036
2006	27-Apr	2 C	120	-0.4379	0.0054	-0.0021	1.2927	-0.5027	0.0292
2006	27-Apr	3 C	120	-0.7044	0.0000	0.0000	2.9866	-1.1615	0.0147
2006	27-Apr	1 T	120	-0.1175	0.0000	0.0000	1.8235	-0.2597	0.0034
2006	27-Apr	2 T	120						
2006	27-Apr	3 T	120	-0.0325	0.0000	0.0000	2.9440	-0.4193	0.0000
2006	27-Apr	1 C	200	-0.0003	0.0014	0.0000	1.8123	-0.0060	0.0054
2006	27-Apr	2 C	200	-0.0007	0.0022	0.0000	0.4097	-0.0014	0.0120
2006	27-Apr	3 C	200	-0.0006	0.0000	0.0000	2.3946	-0.0079	0.0205
2006	27-Apr	1 T	200	-0.0001	0.0021	0.0000	1.8528	-0.0039	0.0065
2006	27-Apr	2 T	200						
2006	27-Apr	3 T	200	-0.0005	0.0000	0.0000	1.3146	-0.0028	0.0069
2006	4-May	1 C	15	-0.4599	0.0000	0.0000	0.4176	-0.1921	0.0000
2006	4-May	2 C	15	-0.5546	0.0000	0.0000	0.5631	-0.2590	0.0000

year	date	rep	trt	depth cm	Mg2790 kg/ha	Mo2020 ug/ml	Mo2020 kg/ha	Na5889 ug/ml	Na5889 kg/ha	Ni2316 ug/ml
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2006	4-May	3 C	15	-0.7155	0.0000	0.0000	0.5298	-0.2436	0.0000
2006	4-May	1 T	15	-3.6614	0.0046	-0.0022	2.0415	-1.0014	0.0005
2006	4-May	2 T	15	-0.9334	0.0001	0.0000	0.7152	-0.3508	0.0252
2006	4-May	3 T	15	-1.5410	0.0039	-0.0019	1.3323	-0.6535	0.0002
2006	4-May	1 C	30	-0.6856	0.0000	0.0000	0.4163	-0.1903	0.0000
2006	4-May	2 C	30	-0.1607	0.0000	0.0000	0.5329	-0.2437	0.0000
2006	4-May	3 C	30	-0.7327	0.0026	-0.0012	0.8483	-0.3879	0.0047
2006	4-May	1 T	30	-0.3165	0.0020	-0.0010	0.3770	-0.1797	0.0000
2006	4-May	2 T	30	-1.6808	0.0000	0.0000	0.6222	-0.2965	0.0019
2006	4-May	3 T	30	-0.8699	0.0006	-0.0003	0.4701	-0.2240	0.0005
2006	4-May	1 C	60	-1.0622	0.0000	0.0000	0.9816	-0.4485	0.0000
2006	4-May	2 C	60	-0.1218	0.0000	0.0000	0.3294	-0.1505	0.0000
2006	4-May	3 C	60	-0.4176	0.0033	-0.0015	0.3506	-0.1602	0.0000
2006	4-May	1 T	60	-0.4344	0.0000	0.0000	0.8566	-0.3930	0.0000
2006	4-May	2 T	60	-3.0269	0.0018	-0.0008	2.8771	-1.3201	0.0375
2006	4-May	3 T	60	-0.5498	0.0004	-0.0002	0.9712	-0.4456	0.0017
2006	4-May	1 C	120	-0.7243	0.0000	0.0000	1.0186	-0.4457	0.0049
2006	4-May	2 C	120	-0.2635	0.0000	0.0000	0.9115	-0.3988	0.0463
2006	4-May	3 C	120	-0.8056	0.0024	-0.0010	1.0458	-0.4576	0.0074
2006	4-May	1 T	120	-0.3163	0.0036	-0.0015	0.9741	-0.4158	0.0044
2006	4-May	2 T	120						
2006	4-May	3 T	120	-0.1813	0.0000	0.0000	1.2884	-0.5500	0.0070
2006	4-May	1 C	200	-0.0023	0.0000	0.0000	0.8005	-0.0683	0.0000
2006	4-May	2 C	200	-0.0106	0.0000	0.0000	0.5113	-0.0436	0.0068
2006	4-May	3 C	200	-0.0144	0.0014	-0.0001	1.2122	-0.1034	0.0097
2006	4-May	1 T	200	-0.0001	0.0000	0.0000	0.8318	-0.0024	0.0000
2006	4-May	2 T	200						
2006	4-May	3 T	200	-0.0006	0.0000	0.0000	0.4194	-0.0012	0.0090
2006	12-May	1 C	15	-1.2791	0.0000	0.0000	0.5223	-0.4563	0.0000
2006	12-May	2 C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	3 C	15	-1.3259	0.0000	0.0000	0.6257	-0.5467	0.0000
2006	12-May	1 T	15	-40.6033	0.0013	-0.0011	12.3936	-10.7887	0.0015
2006	12-May	2 T	15	-2.1271	0.0058	-0.0050	0.7919	-0.6894	0.0096
2006	12-May	3 T	15	-5.7639	0.0000	0.0000	2.0496	-1.7842	0.0031
2006	12-May	1 C	30	-2.8613	0.0048	-0.0042	1.1288	-0.9783	0.0000
2006	12-May	2 C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	3 C	30	-1.7062	0.0000	0.0000	1.5046	-1.3039	0.0010
2006	12-May	1 T	30	-1.5635	0.0000	0.0000	1.2169	-1.0587	0.0000
2006	12-May	2 T	30	-2.7181	0.0000	0.0000	1.4613	-1.2713	0.0000
2006	12-May	3 T	30	-1.4089	0.0000	0.0000	0.9521	-0.8284	0.0000
2006	12-May	1 C	60	-1.6330	0.0000	0.0000	1.2906	-1.1218	0.0000
2006	12-May	2 C	60	-0.9548	0.0000	0.0000	0.5668	-0.4926	0.0000
2006	12-May	3 C	60	-0.6696	0.0000	0.0000	0.4479	-0.3893	0.0000
2006	12-May	1 T	60	-0.9937	0.0000	0.0000	0.8737	-0.7557	0.0000
2006	12-May	2 T	60	-5.4718	0.0000	0.0000	1.7383	-1.5034	0.0123
2006	12-May	3 T	60	-1.1972	0.0000	0.0000	0.9937	-0.8594	0.0005

year	date	rep	trt	depth	Mg2790	Mo2020	Mo2020	Na5889	Na5889	Ni2316
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml

2006	12-May	1	C	120	-1.2976	0.0000	0.0000	0.8709	-0.7689	0.0003
2006	12-May	2	C	120						
2006	12-May	3	C	120	-1.1620	0.0000	0.0000	1.3814	-1.2195	0.0032
2006	12-May	1	T	120	-0.5965	0.0000	0.0000	1.1567	-1.0555	0.0055
2006	12-May	2	T	120	-1.3386	0.0000	0.0000	4.5457	-4.1480	0.0498
2006	12-May	3	T	120	-0.2175	0.0006	-0.0005	1.1886	-1.0846	0.0016
2006	12-May	1	C	200	-0.0217	0.0000	0.0000	0.7680	-0.7225	0.0000
2006	12-May	2	C	200	-0.1392	0.0000	0.0000	0.3558	-0.3347	0.0113
2006	12-May	3	C	200	-0.1199	0.0007	-0.0007	1.1070	-1.0413	0.0077
2006	12-May	1	T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	2	T	200	-0.1122	0.0000	0.0000	4.0380	-2.1109	0.0131
2006	12-May	3	T	200	-0.1004	0.0000	0.0000	0.5488	-0.2869	0.0000
2006	19-May	1	C	15	-0.4111	0.0188	-0.0052	0.3607	-0.1005	0.0131
2006	19-May	2	C	15	-0.3837	0.0170	-0.0047	0.7034	-0.1960	0.0141
2006	19-May	3	C	15	-1.2133	0.0183	-0.0051	1.1293	-0.3146	0.0131
2006	19-May	1	T	15	-2.0420	0.0000	0.0000	1.2057	-0.3392	0.0000
2006	19-May	2	T	15	-1.8512	0.0106	-0.0030	2.8147	-0.7918	0.0206
2006	19-May	3	T	15	-1.6721	0.0210	-0.0059	0.7201	-0.2026	0.0121
2006	19-May	1	C	30	-1.1056	0.0180	-0.0051	1.5424	-0.4410	0.0115
2006	19-May	2	C	30	-1.7134	0.0016	-0.0005	1.8340	-0.5243	0.0089
2006	19-May	3	C	30	-0.7891	0.0061	-0.0017	1.6949	-0.4845	0.0064
2006	19-May	1	T	30	-1.0945	0.0030	-0.0009	1.7660	-0.5191	0.0000
2006	19-May	2	T	30	-0.9187	0.0201	-0.0059	0.8088	-0.2378	0.0168
2006	19-May	3	T	30	-2.0898	0.0004	-0.0001	2.8241	-0.8301	0.0378
2006	19-May	1	C	60	-0.6054	0.0138	-0.0043	1.3745	-0.4233	0.0082
2006	19-May	2	C	60	-0.3701	0.0159	-0.0049	0.5148	-0.1585	0.0123
2006	19-May	3	C	60	-0.2827	0.0175	-0.0054	0.4365	-0.1344	0.0122
2006	19-May	1	T	60	-0.4287	0.0000	0.0000	0.7682	-0.2540	0.0000
2006	19-May	2	T	60	-1.6851	0.0182	-0.0060	2.7732	-0.9169	0.0197
2006	19-May	3	T	60	-0.4162	0.0207	-0.0069	0.7475	-0.2471	0.0142
2006	19-May	1	C	120	-0.8997	0.0158	-0.0057	0.7748	-0.2777	0.0133
2006	19-May	2	C	120	-0.3726	0.0191	-0.0069	0.5062	-0.1814	0.0494
2006	19-May	3	C	120	-0.5123	0.0035	-0.0013	0.8054	-0.2887	0.0094
2006	19-May	1	T	120	-0.2498	0.0116	-0.0045	1.0920	-0.4198	0.0132
2006	19-May	2	T	120	-0.5677	0.0084	-0.0032	2.0875	-0.8026	0.0436
2006	19-May	3	T	120	-0.1343	0.0166	-0.0064	1.0957	-0.4212	0.0162
2006	19-May	1	C	200	-0.0348	0.0158	-0.0060	0.6232	-0.2366	0.0137
2006	19-May	2	C	200	-0.0766	0.0164	-0.0062	0.4079	-0.1549	0.0182
2006	19-May	3	C	200	-0.0750	0.0155	-0.0059	0.8416	-0.3195	0.0191
2006	19-May	1	T	200	-0.0272	0.0164	-0.0069	0.5998	-0.2509	0.0088
2006	19-May	2	T	200	-0.0959	0.0179	-0.0075	1.4244	-0.5958	0.0172
2006	19-May	3	T	200	-0.0872	0.0014	-0.0006	0.3518	-0.1472	0.0117
2006	27-May	1	C	15	-0.8682	0.0164	-0.0112	0.5032	-0.3448	0.0136
2006	27-May	2	C	15	-1.3382	0.0163	-0.0112	0.3827	-0.2623	0.0139
2006	27-May	3	C	15	-1.4505	0.0147	-0.0101	0.4707	-0.3226	0.0136
2006	27-May	1	T	15						
2006	27-May	2	T	15	-6.2364	0.0172	-0.0119	2.4245	-1.6816	0.0248

year	date	rep	trt	depth	Mg2790	Mo2020	Mo2020	Na5889	Na5889	Ni2316
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml

2006	27-May	3 T	15	-1.0878	0.0177	-0.0123	1.8134	-1.2578	0.0448
2006	27-May	1 C	30	-2.4966	0.0151	-0.0101	0.9470	-0.6346	0.0119
2006	27-May	2 C	30	-3.1566	0.0000	0.0000	1.5641	-1.0481	0.0062
2006	27-May	3 C	30	-2.2707	0.0125	-0.0084	1.7747	-1.1893	0.0117
2006	27-May	1 T	30	-4.0461	0.0152	-0.0103	1.3942	-0.9406	0.0134
2006	27-May	2 T	30	-2.4870	0.0145	-0.0098	0.6303	-0.4253	0.0153
2006	27-May	3 T	30	-0.1505	0.0172	-0.0116	1.1598	-0.7825	0.0189
2006	27-May	1 C	60	-0.8683	0.0184	-0.0117	0.4673	-0.2957	0.0125
2006	27-May	2 C	60	-1.5646	0.0189	-0.0120	1.2508	-0.7915	0.0122
2006	27-May	3 C	60	-0.5177	0.0186	-0.0117	0.4411	-0.2791	0.0058
2006	27-May	1 T	60	-1.5485	0.0165	-0.0103	1.2077	-0.7509	0.0155
2006	27-May	2 T	60	-3.1702	0.0190	-0.0118	3.3606	-2.0893	0.0234
2006	27-May	3 T	60	-0.7947	0.0166	-0.0103	0.9696	-0.6028	0.0151
2006	27-May	1 C	120	-1.5273	0.0190	-0.0104	0.7150	-0.3908	0.0153
2006	27-May	2 C	120	-0.4007	0.0153	-0.0083	0.4978	-0.2721	0.0576
2006	27-May	3 C	120	-0.8107	0.0169	-0.0093	0.9930	-0.5428	0.0163
2006	27-May	1 T	120	-0.4456	0.0175	-0.0087	0.9674	-0.4820	0.0155
2006	27-May	2 T	120	-2.9734	0.0184	-0.0092	0.5858	-0.2918	0.0150
2006	27-May	3 T	120	-0.1321	0.0189	-0.0094	0.8241	-0.4106	0.0164
2006	27-May	1 C	200	-0.0375	0.0174	-0.0080	0.6665	-0.3048	0.0101
2006	27-May	2 C	200	-0.0867	0.0166	-0.0076	0.4115	-0.1882	0.0194
2006	27-May	3 C	200	-0.0889	0.0168	-0.0077	0.8741	-0.3998	0.0200
2006	27-May	1 T	200	-0.0168	0.0090	-0.0035	0.4812	-0.1896	0.0058
2006	27-May	2 T	200	-3.6395	0.0190	-0.0075	2.4730	-0.9745	0.0298
2006	27-May	3 T	200	-0.1032	0.0203	-0.0080	0.4185	-0.1649	0.0165
2006	1-Jun	1 C	15	-1.6423	0.0136	-0.0083	0.4102	-0.2504	0.0116
2006	1-Jun	2 C	15	-3.1518	0.0000	0.0000	0.9197	-0.5615	0.0055
2006	1-Jun	3 C	15	-2.9678	0.0159	-0.0097	1.6490	-1.0068	0.0112
2006	1-Jun	1 T	15	-25.0236	0.0000	0.0000	7.3293	-4.4231	0.0071
2006	1-Jun	2 T	15	-1.7097	0.0042	-0.0025	0.7847	-0.4735	0.0065
2006	1-Jun	3 T	15	-3.1608	0.0132	-0.0080	0.9484	-0.5723	0.0115
2006	1-Jun	1 C	30	-9.4869	0.0000	0.0000	2.5433	-1.4986	0.0086
2006	1-Jun	2 C	30	-0.7834	0.0166	-0.0098	0.4585	-0.2701	0.0126
2006	1-Jun	3 C	30	-0.0590	0.0179	-0.0105	0.6934	-0.4086	0.0147
2006	1-Jun	1 T	30	-4.3103	0.0138	-0.0080	1.0538	-0.6094	0.0130
2006	1-Jun	2 T	30	-1.7531	0.0174	-0.0100	0.5123	-0.2962	0.0162
2006	1-Jun	3 T	30	-8.0404	0.0118	-0.0068	2.1120	-1.2213	0.0118
2006	1-Jun	1 C	60	-1.8629	0.0171	-0.0098	1.0641	-0.6082	0.0106
2006	1-Jun	2 C	60	-0.5261	0.0016	-0.0009	0.4155	-0.2375	0.0448
2006	1-Jun	3 C	60	-0.5617	0.0179	-0.0102	0.4752	-0.2716	0.0109
2006	1-Jun	1 T	60	-1.4471	0.0195	-0.0113	0.7847	-0.4545	0.0130
2006	1-Jun	2 T	60	-5.8738	0.0196	-0.0113	4.6943	-2.7186	0.0168
2006	1-Jun	3 T	60	-0.6414	0.0141	-0.0081	2.1825	-1.2639	0.0100
2006	1-Jun	1 C	120	-1.7171	0.0166	-0.0100	0.7036	-0.4235	0.0129
2006	1-Jun	2 C	120	-0.0790	0.0011	-0.0006	0.3033	-0.1826	0.0100

year	date	rep	trt	depth	Mg2790	Mo2020	Mo2020	Na5889	Na5889	Ni2316
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml

2006	1-Jun	3 C	120	-0.8052	0.0125	-0.0075	1.1208	-0.6747	0.0171
2006	1-Jun	1 T	120	-0.6300	0.0151	-0.0094	1.0274	-0.6390	0.0147
2006	1-Jun	2 T	120	-1.0272	0.0150	-0.0093	1.7429	-1.0840	0.0404
2006	1-Jun	3 T	120	-0.2251	0.0186	-0.0116	1.0747	-0.6684	0.0140
2006	1-Jun	1 C	200	-0.2355	0.0000	0.0000	0.1542	-0.0996	0.0057
2006	1-Jun	2 C	200	-1.0555	0.0118	-0.0076	0.3108	-0.2008	0.0112
2006	1-Jun	3 C	200	-0.1243	0.0176	-0.0113	0.8635	-0.5579	0.0226
2006	1-Jun	1 T	200	-0.0535	0.0158	-0.0102	0.8194	-0.5265	0.0110
2006	1-Jun	2 T	200	-0.1542	0.0213	-0.0137	1.1966	-0.7689	0.0203
2006	1-Jun	3 T	200	-0.1672	0.0180	-0.0115	0.4583	-0.2945	0.0187
2006	9-Jun	1 C	15	-1.9251	0.0120	-0.0071	0.4257	-0.2521	0.0106
2006	9-Jun	2 C	15	-0.3163	0.0040	-0.0024	0.2856	-0.1691	0.0048
2006	9-Jun	3 C	15	-0.9333	0.0022	-0.0013	0.3120	-0.1848	0.1309
2006	9-Jun	1 T	15	-38.9185	0.0006	-0.0004	11.9278	-7.1524	0.0125
2006	9-Jun	2 T	15	-8.2404	0.0142	-0.0085	2.4690	-1.4805	0.0155
2006	9-Jun	3 T	15	-5.2799	0.0255	-0.0153	1.2874	-0.7720	0.0173
2006	9-Jun	1 C	30	-7.9497	0.0153	-0.0090	1.2890	-0.7597	0.0171
2006	9-Jun	2 C	30	-1.0301	0.0000	0.0000	0.4747	-0.2797	0.0039
2006	9-Jun	3 C	30	-2.9037	0.0040	-0.0023	1.0697	-0.6304	0.0076
2006	9-Jun	1 T	30	-3.6038	0.0159	-0.0094	0.6450	-0.3792	0.0110
2006	9-Jun	2 T	30	-2.1060	0.0220	-0.0129	0.8333	-0.4899	0.0193
2006	9-Jun	3 T	30	-6.3546	0.0193	-0.0113	1.3556	-0.7969	0.0215
2006	9-Jun	1 C	60	-2.7158	0.0157	-0.0089	1.0544	-0.5966	0.0106
2006	9-Jun	2 C	60	-0.8109	0.0039	-0.0022	0.4215	-0.2385	0.0031
2006	9-Jun	3 C	60	-0.6069	0.0076	-0.0043	0.4947	-0.2799	0.0073
2006	9-Jun	1 T	60	-1.4482	0.0132	-0.0071	0.9164	-0.4980	0.0114
2006	9-Jun	2 T	60	-6.4203	0.0089	-0.0048	3.7063	-2.0139	0.0128
2006	9-Jun	3 T	60	-0.5135	0.0185	-0.0100	3.0815	-1.6744	0.0120
2006	9-Jun	1 C	120	-1.4374	0.0205	-0.0101	0.7384	-0.3651	0.0135
2006	9-Jun	2 C	120	-0.4903	0.0021	-0.0010	0.4634	-0.2291	0.0460
2006	9-Jun	3 C	120	-0.5917	0.0084	-0.0042	1.3153	-0.6503	0.0112
2006	9-Jun	1 T	120	-0.3904	0.0151	-0.0071	1.1185	-0.5236	0.0164
2006	9-Jun	2 T	120	-0.8407	0.0135	-0.0063	1.6074	-0.7524	0.0388
2006	9-Jun	3 T	120	-0.1594	0.0149	-0.0070	1.0141	-0.4747	0.0149
2006	9-Jun	1 C	200	-0.0198	0.0000	0.0000	0.6357	-0.2843	0.0000
2006	9-Jun	2 C	200	-0.0707	0.0036	-0.0016	0.3785	-0.1693	0.0107
2006	9-Jun	3 C	200	-0.0720	0.0044	-0.0019	0.7193	-0.3217	0.0149
2006	9-Jun	1 T	200	-0.0399	0.0121	-0.0060	0.8363	-0.4126	0.0112
2006	9-Jun	2 T	200	-0.1068	0.0141	-0.0070	1.1692	-0.5769	0.0171
2006	9-Jun	3 T	200	-0.1252	0.0157	-0.0077	0.4066	-0.2006	0.0200
2006	15-Jun	1 C	15	-1.0992	0.0000	0.0000	0.3678	-0.1646	0.0000
2006	15-Jun	2 C	15	-0.3320	0.0029	-0.0013	0.4968	-0.2223	0.0047
2006	15-Jun	3 C	15	-1.0678	0.0073	-0.0033	0.3871	-0.1732	0.0744
2006	15-Jun	1 T	15	-16.5362	0.0060	-0.0028	6.5733	-3.0905	0.0098
2006	15-Jun	2 T	15	-4.1056	0.0075	-0.0035	1.2120	-0.5698	0.0120
2006	15-Jun	3 T	15	-2.8669	0.0067	-0.0032	0.7372	-0.3466	0.0054

year	date	rep	trt	depth	Mg2790	Mo2020	Mo2020	Na5889	Na5889	Ni2316
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml

2006	15-Jun	1 C	30	-6.5469	0.0060	-0.0027	2.6035	-1.1871	0.0046
2006	15-Jun	2 C	30	-4.5346	0.0015	-0.0007	2.3509	-1.0719	0.0061
2006	15-Jun	3 C	30	-2.3059	0.0043	-0.0020	1.4661	-0.6685	0.0060
2006	15-Jun	1 T	30	-2.2711	0.0000	0.0000	0.4950	-0.2325	0.0049
2006	15-Jun	2 T	30	-2.5893	0.0042	-0.0020	0.9858	-0.4632	0.0081
2006	15-Jun	3 T	30	-7.2458	0.0026	-0.0012	2.6489	-1.2445	0.0134
2006	15-Jun	1 C	60	-2.4679	0.0090	-0.0041	1.1540	-0.5300	0.0086
2006	15-Jun	2 C	60	-0.8815	0.0069	-0.0032	0.4411	-0.2026	0.0055
2006	15-Jun	3 C	60	-0.5361	0.0067	-0.0031	0.5664	-0.2601	0.0041
2006	15-Jun	1 T	60	-1.2185	0.0000	0.0000	0.7316	-0.3466	0.0018
2006	15-Jun	2 T	60	-5.4294	0.0031	-0.0015	2.5081	-1.1883	0.0115
2006	15-Jun	3 T	60	-0.4483	0.0000	0.0000	2.8144	-1.3335	0.0030
2006	15-Jun	1 C	120	-1.3985	0.0051	-0.0023	0.7544	-0.3501	0.0076
2006	15-Jun	2 C	120	-0.5485	0.0062	-0.0029	0.5051	-0.2344	0.0478
2006	15-Jun	3 C	120	-0.6362	0.0012	-0.0006	1.1254	-0.5223	0.0116
2006	15-Jun	1 T	120	-0.4025	0.0057	-0.0028	1.1464	-0.5670	0.0082
2006	15-Jun	2 T	120	-0.9691	0.0057	-0.0028	1.3703	-0.6778	0.0297
2006	15-Jun	3 T	120	-0.1658	0.0110	-0.0054	0.9403	-0.4651	0.0139
2006	15-Jun	1 C	200	-0.0285	0.0017	-0.0008	0.7390	-0.3617	0.0056
2006	15-Jun	2 C	200	-0.0779	0.0049	-0.0024	0.4121	-0.2017	0.0109
2006	15-Jun	3 C	200	-0.0782	0.0048	-0.0024	0.7754	-0.3795	0.0125
2006	15-Jun	1 T	200	-0.0157	0.0027	-0.0012	0.6583	-0.3012	0.0000
2006	15-Jun	2 T	200	-0.0840	0.0082	-0.0037	1.2095	-0.5535	0.0121
2006	15-Jun	3 T	200	-0.0970	0.0016	-0.0007	0.3657	-0.1673	0.0082
2006	22-Jun	1 C	15	-0.6731	0.0054	-0.0024	1.0940	-0.4794	0.0054
2006	22-Jun	2 C	15	-0.9207	0.0050	-0.0022	0.4963	-0.2175	0.0052
2006	22-Jun	3 C	15	-0.6322	0.0061	-0.0027	0.2830	-0.1240	0.0361
2006	22-Jun	1 T	15	-3.1815	0.0063	-0.0028	1.7035	-0.7564	0.0080
2006	22-Jun	2 T	15	-1.1250	0.0034	-0.0015	0.4194	-0.1862	0.0052
2006	22-Jun	3 T	15	-3.8517	0.0036	-0.0016	0.9403	-0.4175	0.0045
2006	22-Jun	1 C	30	-3.2708	0.0071	-0.0029	1.3899	-0.5567	0.0060
2006	22-Jun	2 C	30	-1.0548	0.0018	-0.0007	0.3858	-0.1545	0.0032
2006	22-Jun	3 C	30	-2.0020	0.0036	-0.0014	1.3875	-0.5557	0.0061
2006	22-Jun	1 T	30	-1.6993	0.0057	-0.0023	0.5298	-0.2142	0.0040
2006	22-Jun	2 T	30	-2.3435	0.0028	-0.0011	0.7361	-0.2976	0.0068
2006	22-Jun	3 T	30	-5.4746	0.0004	-0.0002	1.5400	-0.6227	0.0146
2006	22-Jun	1 C	60	-2.1700	0.0023	-0.0008	1.3137	-0.4674	0.0021
2006	22-Jun	2 C	60	-0.8475	0.0059	-0.0021	0.5204	-0.1851	0.0031
2006	22-Jun	3 C	60	-0.4645	0.0051	-0.0018	0.5294	-0.1884	0.0033
2006	22-Jun	1 T	60	-1.0366	0.0000	0.0000	0.6594	-0.2383	0.0048
2006	22-Jun	2 T	60	-4.3563	0.0007	-0.0002	2.0255	-0.7318	0.0149
2006	22-Jun	3 T	60	-0.4491	0.0071	-0.0026	2.6067	-0.9419	0.0051
2006	22-Jun	1 C	120	-0.9420	0.0044	-0.0015	0.7287	-0.2463	0.0096
2006	22-Jun	2 C	120	-0.4008	0.0024	-0.0008	0.4651	-0.1572	0.0436
2006	22-Jun	3 C	120	-0.5339	0.0057	-0.0019	0.7971	-0.2694	0.0100
2006	22-Jun	1 T	120	-0.2914	0.0091	-0.0034	1.1726	-0.4357	0.0082

year	date	rep	trt	depth	Mg2790	Mo2020	Mo2020	Na5889	Na5889	Ni2316
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml

2006	22-Jun	2 T	120	-0.8011	0.0087	-0.0032	1.4047	-0.5219	0.0299
2006	22-Jun	3 T	120	-0.1212	0.0019	-0.0007	0.9745	-0.3621	0.0080
2006	22-Jun	1 C	200	-0.0196	0.0027	-0.0011	0.7439	-0.3014	0.0029
2006	22-Jun	2 C	200	-0.0595	0.0007	-0.0003	0.4125	-0.1671	0.0095
2006	22-Jun	3 C	200	-0.0632	0.0050	-0.0020	0.7867	-0.3187	0.0148
2006	22-Jun	1 T	200	-0.0176	0.0000	0.0000	0.7871	-0.3704	0.0018
2006	22-Jun	2 T	200	-0.0799	0.0058	-0.0027	1.2129	-0.5708	0.0105
2006	22-Jun	3 T	200	-0.1006	0.0020	-0.0009	0.4645	-0.2186	0.0086
2006	29-Jun	1 C	15	-0.5869	0.0005	-0.0004	0.6098	-0.5404	0.0020
2006	29-Jun	2 C	15	-3.6329	0.0053	-0.0047	0.7143	-0.6330	0.0057
2006	29-Jun	3 C	15	-1.6311	0.0034	-0.0030	0.3886	-0.3443	0.2444
2006	29-Jun	1 T	15	-1.7219	0.0000	0.0000	0.7266	-0.6648	0.0013
2006	29-Jun	2 T	15	-1.4656	0.0003	-0.0002	0.4636	-0.4242	0.0139
2006	29-Jun	3 T	15	-2.4082	0.0010	-0.0009	0.4225	-0.3867	0.0035
2006	29-Jun	1 C	30	-5.4641	0.0081	-0.0072	1.1102	-0.9951	0.0042
2006	29-Jun	2 C	30	-5.9905	0.0034	-0.0030	0.7761	-0.6956	0.0072
2006	29-Jun	3 C	30	-5.4656	0.0035	-0.0032	1.3800	-1.2370	0.0044
2006	29-Jun	1 T	30	-2.1422	0.0005	-0.0004	0.3574	-0.3320	0.0039
2006	29-Jun	2 T	30	-3.9478	0.0051	-0.0048	0.7129	-0.6621	0.0093
2006	29-Jun	3 T	30	-5.5590	0.0014	-0.0013	0.6804	-0.6319	0.0118
2006	29-Jun	1 C	60	-5.5772	0.0095	-0.0086	1.1030	-0.9943	0.0043
2006	29-Jun	2 C	60	-2.5445	0.0003	-0.0003	0.4471	-0.4031	0.0038
2006	29-Jun	3 C	60	-0.8293	0.0008	-0.0008	0.3104	-0.2798	0.0037
2006	29-Jun	1 T	60	-3.1268	0.0054	-0.0049	0.6621	-0.6051	0.0054
2006	29-Jun	2 T	60	-12.8569	0.0061	-0.0056	2.0965	-1.9162	0.0115
2006	29-Jun	3 T	60	-2.0791	0.0080	-0.0073	2.2308	-2.0390	0.0067
2006	29-Jun	1 C	120	-2.2790	0.0065	-0.0056	0.7046	-0.6069	0.0055
2006	29-Jun	2 C	120	-1.0982	0.0011	-0.0009	0.4350	-0.3747	0.0374
2006	29-Jun	3 C	120	-1.3647	0.0000	0.0000	0.7308	-0.6295	0.0029
2006	29-Jun	1 T	120	-0.6965	0.0000	0.0000	0.9098	-0.7468	0.0012
2006	29-Jun	2 T	120	-1.9225	0.0050	-0.0041	1.4356	-1.1785	0.0251
2006	29-Jun	3 T	120	-0.3643	0.0004	-0.0003	0.7886	-0.6474	0.0101
2006	29-Jun	1 C	200	-0.0450	0.0051	-0.0040	0.7461	-0.5864	0.0061
2006	29-Jun	2 C	200	-0.1190	0.0018	-0.0014	0.3758	-0.2954	0.0100
2006	29-Jun	3 C	200	-0.1744	0.0040	-0.0032	0.9074	-0.7132	0.0130
2006	29-Jun	1 T	200	-0.0207	0.0000	0.0000	0.9001	-0.5911	0.0004
2006	29-Jun	2 T	200	-0.1064	0.0067	-0.0044	1.3791	-0.9058	0.0080
2006	29-Jun	3 T	200	-0.1452	0.0003	-0.0002	0.4269	-0.2804	0.0100
2006	5-Jul	1 C	15	-0.1660	0.0000	0.0000	0.3872	-0.2258	0.0000
2006	5-Jul	2 C	15	-0.8971	0.0000	0.0000	0.4635	-0.2702	0.0000
2006	5-Jul	3 C	15	-0.5327	0.0000	0.0000	0.3089	-0.1801	0.0830
2006	5-Jul	1 T	15	-0.8520	0.0008	-0.0005	0.6942	-0.4184	0.0033
2006	5-Jul	2 T	15	-0.4768	0.0000	0.0000	0.4052	-0.2442	0.0085
2006	5-Jul	3 T	15	-0.4652	0.0021	-0.0012	0.3092	-0.1863	0.0000
2006	5-Jul	1 C	30	-1.7279	0.0000	0.0000	0.5787	-0.3262	0.0000
2006	5-Jul	2 C	30	-1.9152	0.0000	0.0000	0.6222	-0.3507	0.0000

year	date	rep	trt	depth	Mg2790	Mo2020	Mo2020	Na5889	Na5889	Ni2316
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml

2006	5-Jul	3 C	30	-2.4720	0.0000	0.0000	1.0323	-0.5818	0.0000
2006	5-Jul	1 T	30	-0.6168	0.0000	0.0000	0.3470	-0.1998	0.0000
2006	5-Jul	2 T	30	-1.8581	0.0028	-0.0016	0.6468	-0.3724	0.0010
2006	5-Jul	3 T	30	-1.0094	0.0000	0.0000	0.3832	-0.2206	0.0028
2006	5-Jul	1 C	60	-3.4009	0.0010	-0.0006	0.9797	-0.5162	0.0002
2006	5-Jul	2 C	60	-1.7399	0.0015	-0.0008	0.5065	-0.2668	0.0000
2006	5-Jul	3 C	60	-0.7439	0.0000	0.0000	0.3699	-0.1949	0.0000
2006	5-Jul	1 T	60	-1.3172	0.0007	-0.0004	0.4937	-0.2674	0.0066
2006	5-Jul	2 T	60	-7.9829	0.0000	0.0000	2.0451	-1.1078	0.0000
2006	5-Jul	3 T	60	-2.6654	0.0000	0.0000	2.1461	-1.1625	0.0000
2006	5-Jul	1 C	120	-1.4731	0.0010	-0.0005	0.7471	-0.3570	0.0000
2006	5-Jul	2 C	120	-0.8388	0.0012	-0.0006	0.3583	-0.1712	0.0177
2006	5-Jul	3 C	120	-0.7902	0.0068	-0.0033	0.7980	-0.3813	0.0134
2006	5-Jul	1 T	120	-0.4849	0.0000	0.0000	0.4005	-0.1935	0.0106
2006	5-Jul	2 T	120	-1.5676	0.0000	0.0000	1.4259	-0.6890	0.0234
2006	5-Jul	3 T	120	-0.1859	0.0010	-0.0005	0.8941	-0.4320	0.0013
2006	5-Jul	1 C	200	-0.0154	0.0000	0.0000	0.7924	-0.3704	0.0000
2006	5-Jul	2 C	200	-0.0728	0.0000	0.0000	0.4079	-0.1907	0.0022
2006	5-Jul	3 C	200	-0.0643	0.0022	-0.0010	0.8034	-0.3756	0.0065
2006	5-Jul	1 T	200	0.0000	0.0000	0.0000	0.7995	-0.3937	0.0000
2006	5-Jul	2 T	200	-0.0785	0.0000	0.0000	1.3109	-0.6456	0.0000
2006	5-Jul	3 T	200	-0.0855	0.0000	0.0000	0.4440	-0.2186	0.0000
2006	13-Jul	1 C	15						
2006	13-Jul	2 C	15	-0.5691	0.0000	0.0000	0.3153	-0.3774	0.0000
2006	13-Jul	3 C	15	-0.2149	0.0000	0.0000	0.1999	-0.2392	0.0930
2006	13-Jul	1 T	15	-1.2463	0.0039	-0.0048	0.5618	-0.6891	0.0030
2006	13-Jul	2 T	15	-0.9651	0.0000	0.0000	0.3500	-0.4294	0.0000
2006	13-Jul	3 T	15	-0.6711	0.0046	-0.0057	0.3667	-0.4499	0.0000
2006	13-Jul	1 C	30	-3.0829	0.0000	0.0000	0.4271	-0.5019	0.0000
2006	13-Jul	2 C	30	-2.5424	0.0000	0.0000	0.4774	-0.5611	0.0000
2006	13-Jul	3 C	30	-5.2703	0.0006	-0.0007	1.1916	-1.4004	0.0000
2006	13-Jul	1 T	30	-0.5871	0.0000	0.0000	0.2316	-0.2794	0.0000
2006	13-Jul	2 T	30	-2.3794	0.0000	0.0000	0.4343	-0.5239	0.0012
2006	13-Jul	3 T	30	-0.7139	0.0005	-0.0006	0.3898	-0.4703	0.0000
2006	13-Jul	1 C	60	-6.8133	0.0048	-0.0054	0.8887	-1.0098	0.0000
2006	13-Jul	2 C	60	-2.6824	0.0016	-0.0018	0.3478	-0.3952	0.0000
2006	13-Jul	3 C	60	-2.2563	0.0000	0.0000	0.3868	-0.4395	0.0000
2006	13-Jul	1 T	60	-3.2135	0.0000	0.0000	0.4104	-0.4679	0.0000
2006	13-Jul	2 T	60	-14.7426	0.0000	0.0000	1.4827	-1.6902	0.0045
2006	13-Jul	3 T	60	-6.6243	0.0005	-0.0006	1.3407	-1.5283	0.0000
2006	13-Jul	1 C	120	-2.6338	0.0000	0.0000	0.7103	-0.7445	0.0000
2006	13-Jul	2 C	120	-1.8544	0.0000	0.0000	0.4971	-0.5210	0.0022
2006	13-Jul	3 C	120	-1.5467	0.0011	-0.0011	0.9405	-0.9858	0.0097
2006	13-Jul	1 T	120	-0.7539	0.0023	-0.0023	0.6299	-0.6365	0.0000
2006	13-Jul	2 T	120	-3.0602	0.0000	0.0000	1.4377	-1.4527	0.0155
2006	13-Jul	3 T	120	-0.3277	0.0000	0.0000	0.9497	-0.9596	0.0000

year	date	rep	trt	depth	Mg2790	Mo2020	Mo2020	Na5889	Na5889	Ni2316
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml

2006	13-Jul	1 C	200	-0.0242	0.0000	0.0000	0.7807	-0.7838	0.0000
2006	13-Jul	2 C	200	-0.1458	0.0000	0.0000	0.4210	-0.4226	0.0000
2006	13-Jul	3 C	200	-0.1302	0.0000	0.0000	0.7549	-0.7579	0.0063
2006	13-Jul	1 T	200	-0.0017	0.0000	0.0000	0.8664	-0.8216	0.0000
2006	13-Jul	2 T	200	-0.1387	0.0027	-0.0026	1.3530	-1.2831	0.0000
2006	13-Jul	3 T	200	-0.1422	0.0000	0.0000	0.3858	-0.3659	0.0000
2006	20-Jul	1 C	15	-0.0110	0.0000	0.0000	0.2345	-0.0959	0.0000
2006	20-Jul	2 C	15						
2006	20-Jul	3 C	15	-0.0357	0.0000	0.0000	0.2016	-0.0824	0.0000
2006	20-Jul	1 T	15	-0.4509	0.0000	0.0000	0.7358	-0.3029	0.0035
2006	20-Jul	2 T	15	-0.2472	0.0000	0.0000	0.3559	-0.1465	0.0000
2006	20-Jul	3 T	15	-0.1348	0.0000	0.0000	0.3458	-0.1423	0.0000
2006	20-Jul	1 C	30	-0.0716	0.0000	0.0000	0.2307	-0.0943	0.0000
2006	20-Jul	2 C	30	-0.1468	0.0000	0.0000	0.2084	-0.0852	0.0044
2006	20-Jul	3 C	30	-4.0919	0.0000	0.0000	2.5902	-1.0592	0.0000
2006	20-Jul	1 T	30	-0.0301	0.0000	0.0000	0.1876	-0.0792	0.0000
2006	20-Jul	2 T	30	-0.3517	0.0000	0.0000	0.2936	-0.1239	0.0000
2006	20-Jul	3 T	30	-0.1176	0.0054	-0.0023	0.7163	-0.3024	0.0066
2006	20-Jul	1 C	60	-2.2301	0.0000	0.0000	0.6216	-0.2631	0.0000
2006	20-Jul	2 C	60	-1.1940	0.0000	0.0000	0.5080	-0.2151	0.0000
2006	20-Jul	3 C	60	-0.9489	0.0000	0.0000	0.3536	-0.1497	0.0000
2006	20-Jul	1 T	60	-0.9201	0.0000	0.0000	0.3673	-0.1672	0.0000
2006	20-Jul	2 T	60	-5.2461	0.0000	0.0000	1.0479	-0.4771	0.0000
2006	20-Jul	3 T	60	-3.9519	0.0000	0.0000	0.8043	-0.3662	0.0000
2006	20-Jul	1 C	120	-1.1696	0.0000	0.0000	0.8027	-0.3810	0.0000
2006	20-Jul	2 C	120	-0.4792	0.0004	-0.0002	0.5245	-0.2490	0.0539
2006	20-Jul	3 C	120	-0.6867	0.0005	-0.0002	1.0227	-0.4855	0.0098
2006	20-Jul	1 T	120	-0.4591	0.0000	0.0000	0.6658	-0.3608	0.0016
2006	20-Jul	2 T	120	-1.8006	0.0000	0.0000	1.3559	-0.7347	0.0121
2006	20-Jul	3 T	120	-0.1731	0.0000	0.0000	1.0289	-0.5575	0.0000
2006	20-Jul	1 C	200	-0.0018	0.0000	0.0000	0.8139	-0.4789	0.0000
2006	20-Jul	2 C	200	-0.0840	0.0005	-0.0003	0.4280	-0.2518	0.0021
2006	20-Jul	3 C	200	-0.0787	0.0000	0.0000	0.7423	-0.4368	0.0065
2006	20-Jul	1 T	200	-0.0034	0.0015	-0.0011	0.9460	-0.6630	0.0000
2006	20-Jul	2 T	200	-0.0885	0.0000	0.0000	1.3794	-0.9668	0.0002
2006	20-Jul	3 T	200	-0.1252	0.0000	0.0000	0.4326	-0.3032	0.0000
2006	26-Jul	1 C	15	-0.0331	0.0000	0.0000	0.2336	-0.1824	0.0000
2006	26-Jul	2 C	15						
2006	26-Jul	3 C	15	-0.0765	0.0000	0.0000	0.1277	-0.0998	0.0000
2006	26-Jul	1 T	15	-1.0912	0.0011	-0.0009	1.1124	-0.8613	0.0050
2006	26-Jul	2 T	15	-0.3930	0.0014	-0.0011	0.3438	-0.2662	0.0051
2006	26-Jul	3 T	15	-0.2805	0.0000	0.0000	0.4117	-0.3188	0.0000
2006	26-Jul	1 C	30	-0.2802	0.0108	-0.0079	0.2968	-0.2166	0.0010
2006	26-Jul	2 C	30	-0.1293	0.0000	0.0000	0.1239	-0.0904	0.0000
2006	26-Jul	3 C	30	-2.6047	0.0000	0.0000	0.7091	-0.5176	0.0000
2006	26-Jul	1 T	30	-0.0789	0.0002	-0.0001	0.2147	-0.1544	0.0000

year	date	rep	trt	depth	Mg2790	Mo2020	Mo2020	Na5889	Na5889	Ni2316
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml

2006	26-Jul	2 T	30	-0.4543	0.0000	0.0000	0.3266	-0.2349	0.0000
2006	26-Jul	3 T	30	-0.0655	0.0000	0.0000	0.4745	-0.3412	0.0000
2006	26-Jul	1 C	60	-2.5197	0.0015	-0.0009	0.4493	-0.2879	0.0000
2006	26-Jul	2 C	60	-1.4105	0.0000	0.0000	0.3985	-0.2553	0.0000
2006	26-Jul	3 C	60	-1.2496	0.0005	-0.0003	0.2318	-0.1485	0.0000
2006	26-Jul	1 T	60	-1.3904	0.0005	-0.0003	0.3562	-0.2175	0.0000
2006	26-Jul	2 T	60	-6.0744	0.0000	0.0000	0.9125	-0.5571	0.0000
2006	26-Jul	3 T	60	-4.7452	0.0000	0.0000	0.6143	-0.3750	0.0000
2006	26-Jul	1 C	120	-1.3688	0.0000	0.0000	0.9813	-0.4806	0.0000
2006	26-Jul	2 C	120	-0.6787	0.0006	-0.0003	0.4156	-0.2036	0.0382
2006	26-Jul	3 C	120	-0.6785	0.0000	0.0000	1.1107	-0.5440	0.0046
2006	26-Jul	1 T	120	-0.3522	0.0003	-0.0001	0.7982	-0.3446	0.0000
2006	26-Jul	2 T	120	-1.5570	0.0000	0.0000	1.3890	-0.5997	0.0114
2006	26-Jul	3 T	120	-0.1404	0.0000	0.0000	1.1647	-0.5029	0.0000
2006	26-Jul	1 C	200	-0.0085	0.0000	0.0000	0.6722	-0.2590	0.0000
2006	26-Jul	2 C	200	-0.0546	0.0001	0.0000	0.3425	-0.1320	0.0060
2006	26-Jul	3 C	200	-0.0525	0.0004	-0.0002	0.5889	-0.2269	0.0086
2006	26-Jul	1 T	200	-0.0032	0.0000	0.0000	0.9521	-0.3041	0.0000
2006	26-Jul	2 T	200	-0.0402	0.0000	0.0000	1.5062	-0.4811	0.0000
2006	26-Jul	3 T	200	-0.0691	0.0031	-0.0010	0.4298	-0.1373	0.0018
2006	3-Aug	1 C	15	-0.0079	0.0000	0.0000	0.2211	-0.0329	0.0000
2006	3-Aug	2 C	15	-0.0482	0.0044	-0.0007	0.6459	-0.0961	0.0048
2006	3-Aug	3 C	15	-0.0186	0.0000	0.0000	0.2624	-0.0390	0.0029
2006	3-Aug	1 T	15	-0.2928	0.0010	-0.0002	1.4319	-0.2217	0.0052
2006	3-Aug	2 T	15	-0.0823	0.0000	0.0000	0.3968	-0.0614	0.0000
2006	3-Aug	3 T	15	-0.0600	0.0000	0.0000	0.4143	-0.0641	0.0000
2006	3-Aug	1 C	30	-0.0539	0.0000	0.0000	0.2528	-0.0352	0.0000
2006	3-Aug	2 C	30	-0.0270	0.0000	0.0000	0.1710	-0.0238	0.0000
2006	3-Aug	3 C	30	-0.4134	0.0000	0.0000	0.6022	-0.0838	0.0000
2006	3-Aug	1 T	30	-0.0169	0.0000	0.0000	0.1631	-0.0251	0.0000
2006	3-Aug	2 T	30	-0.0662	0.0000	0.0000	0.2538	-0.0390	0.0000
2006	3-Aug	3 T	30	-0.0114	0.0002	0.0000	0.2433	-0.0374	0.0027
2006	3-Aug	1 C	60	-0.4408	0.0000	0.0000	0.3838	-0.0544	0.0013
2006	3-Aug	2 C	60	-0.2880	0.0000	0.0000	0.3966	-0.0562	0.0000
2006	3-Aug	3 C	60	-0.2623	0.0000	0.0000	0.2560	-0.0363	0.0000
2006	3-Aug	1 T	60	-0.4045	0.0000	0.0000	0.2731	-0.0492	0.0047
2006	3-Aug	2 T	60	-1.3952	0.0000	0.0000	0.6762	-0.1217	0.0046
2006	3-Aug	3 T	60	-0.9769	0.0000	0.0000	0.4637	-0.0835	0.0000
2006	3-Aug	1 C	120	-0.6111	0.0000	0.0000	1.0099	-0.2268	0.0000
2006	3-Aug	2 C	120	-0.2933	0.0000	0.0000	0.3938	-0.0884	0.0400
2006	3-Aug	3 C	120	-0.3307	0.0000	0.0000	1.1206	-0.2517	0.0095
2006	3-Aug	1 T	120	-0.2565	0.0000	0.0000	1.0795	-0.3342	0.0005
2006	3-Aug	2 T	120	-1.0465	0.0000	0.0000	1.4175	-0.4389	0.0130
2006	3-Aug	3 T	120	-0.1001	0.0000	0.0000	1.1205	-0.3469	0.0000
2006	3-Aug	1 C	200	-0.0363	0.0010	-0.0004	0.8430	-0.3461	0.0000
2006	3-Aug	2 C	200	-0.0537	0.0000	0.0000	0.3345	-0.1374	0.0002

year	date	rep	trt	depth	Mg2790	Mo2020	Mo2020	Na5889	Na5889	Ni2316
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml

2006	3-Aug	3 C	200	-0.0622	0.0000	0.0000	0.6057	-0.2487	0.0081
2006	3-Aug	1 T	200	-0.0103	0.0000	0.0000	0.8461	-0.4417	0.0000
2006	3-Aug	2 T	200	-0.0696	0.0000	0.0000	1.4101	-0.7361	0.0001
2006	3-Aug	3 T	200	-0.0876	0.0000	0.0000	0.3260	-0.1702	0.0025
2006	10-Aug	1 C	15	-0.0137	0.0000	0.0000	0.2649	-0.0463	0.0000
2006	10-Aug	2 C	15	-0.0457	0.0000	0.0000	0.3765	-0.0658	0.0000
2006	10-Aug	3 C	15	-0.0247	0.0077	-0.0013	0.2294	-0.0401	0.0068
2006	10-Aug	1 T	15	-0.3372	0.0000	0.0000	1.4334	-0.2502	0.0000
2006	10-Aug	2 T	15	-0.1323	0.0000	0.0000	0.5229	-0.0913	0.0000
2006	10-Aug	3 T	15	-0.0827	0.0000	0.0000	0.6145	-0.1073	0.0000
2006	10-Aug	1 C	30	-0.0293	0.0000	0.0000	0.2167	-0.0329	0.0000
2006	10-Aug	2 C	30	-0.0270	0.0000	0.0000	0.2097	-0.0318	0.0000
2006	10-Aug	3 C	30	-0.4145	0.0000	0.0000	0.6063	-0.0920	0.0040
2006	10-Aug	1 T	30	-0.0115	0.0000	0.0000	0.1531	-0.0235	0.0000
2006	10-Aug	2 T	30	-0.0712	0.0000	0.0000	0.2700	-0.0414	0.0000
2006	10-Aug	3 T	30	-0.0151	0.0000	0.0000	0.3137	-0.0481	0.2271
2006	10-Aug	1 C	60	-0.2458	0.0006	-0.0001	0.3633	-0.0388	0.0000
2006	10-Aug	2 C	60	-0.1402	0.0000	0.0000	0.3398	-0.0362	0.0000
2006	10-Aug	3 C	60	-0.1976	0.0124	-0.0013	0.1823	-0.0194	0.0060
2006	10-Aug	1 T	60	-0.1894	0.0000	0.0000	0.3036	-0.0335	0.0000
2006	10-Aug	2 T	60	-0.8292	0.0000	0.0000	0.7579	-0.0835	0.0000
2006	10-Aug	3 T	60	-0.5061	0.0000	0.0000	0.4508	-0.0497	0.0008
2006	10-Aug	1 C	120	-0.1698	0.0000	0.0000	0.9933	-0.0686	0.0000
2006	10-Aug	2 C	120	-0.0978	0.0027	-0.0002	0.3985	-0.0275	0.0455
2006	10-Aug	3 C	120	-0.1066	0.0073	-0.0005	0.9289	-0.0642	0.0142
2006	10-Aug	1 T	120	-0.0794	0.0000	0.0000	1.1189	-0.1055	0.0000
2006	10-Aug	2 T	120	-0.3110	0.0000	0.0000	1.4028	-0.1323	0.0115
2006	10-Aug	3 T	120	-0.0271	0.0000	0.0000	1.1591	-0.1093	0.0000
2006	10-Aug	1 C	200	-0.0018	0.0000	0.0000	0.7404	-0.1043	0.0000
2006	10-Aug	2 C	200	-0.0243	0.0015	-0.0002	0.2741	-0.0386	0.0099
2006	10-Aug	3 C	200	-0.0330	0.0081	-0.0011	0.6371	-0.0898	0.0121
2006	10-Aug	1 T	200	-0.0008	0.0000	0.0000	0.8146	-0.1530	0.0000
2006	10-Aug	2 T	200	-0.0241	0.0000	0.0000	1.4662	-0.2754	0.0000
2006	10-Aug	3 T	200	-0.0371	0.0000	0.0000	0.3913	-0.0735	0.0037
2006	17-Aug	1 C	15	-0.0734	0.0060	-0.0048	0.1246	-0.0998	0.0077
2006	17-Aug	2 C	15	-0.4710	0.0012	-0.0010	0.8341	-0.6682	0.0053
2006	17-Aug	3 C	15	-0.1006	0.0042	-0.0034	0.1739	-0.1393	0.0047
2006	17-Aug	1 T	15	-2.0314	0.0102	-0.0080	1.4612	-1.1519	0.0050
2006	17-Aug	2 T	15	-0.4466	0.0006	-0.0005	0.2868	-0.2261	0.0117
2006	17-Aug	3 T	15	-0.4446	0.0058	-0.0046	0.5067	-0.3995	0.0063
2006	17-Aug	1 C	30	-0.1826	0.0082	-0.0058	0.1433	-0.1026	0.0097
2006	17-Aug	2 C	30	-0.1604	0.0012	-0.0009	0.1002	-0.0717	0.0064
2006	17-Aug	3 C	30	-2.1828	0.0029	-0.0021	0.4964	-0.3553	0.0067
2006	17-Aug	1 T	30	-0.0981	0.0070	-0.0047	0.1030	-0.0701	0.0058
2006	17-Aug	2 T	30	-0.6076	0.0032	-0.0022	0.3136	-0.2135	0.0000
2006	17-Aug	3 T	30	-0.0620	0.0006	-0.0004	0.2146	-0.1461	0.1716

year	date	rep	trt	depth	Mg2790	Mo2020	Mo2020	Na5889	Na5889	Ni2316
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml

2006	17-Aug	1	C	60	-0.9216	0.0015	-0.0009	0.2120	-0.1200	0.0081
2006	17-Aug	2	C	60	-1.0688	0.0047	-0.0026	0.3377	-0.1911	0.0041
2006	17-Aug	3	C	60	-0.9712	0.0114	-0.0065	0.1502	-0.0850	0.0067
2006	17-Aug	1	T	60	-0.9302	0.0081	-0.0040	0.2160	-0.1059	0.0098
2006	17-Aug	2	T	60	-3.5887	0.0092	-0.0045	0.6883	-0.3375	0.0101
2006	17-Aug	3	T	60	-2.0416	0.0090	-0.0044	0.3319	-0.1627	0.0091
2006	17-Aug	1	C	120	-0.4978	0.0060	-0.0015	0.6765	-0.1732	0.0057
2006	17-Aug	2	C	120	-0.3848	0.0055	-0.0014	0.3623	-0.0927	0.0461
2006	17-Aug	3	C	120	-0.4134	0.0030	-0.0008	0.8359	-0.2140	0.0104
2006	17-Aug	1	T	120	-0.1294	0.0038	-0.0005	0.9570	-0.1359	0.0094
2006	17-Aug	2	T	120	-0.5178	0.0070	-0.0010	1.3231	-0.1879	0.0235
2006	17-Aug	3	T	120	-0.0472	0.0034	-0.0005	1.1412	-0.1621	0.0074
2006	17-Aug	1	C	200	-0.0081	0.0000	0.0000	0.8334	-0.0854	0.0000
2006	17-Aug	2	C	200	-0.0190	0.0085	-0.0009	0.2668	-0.0273	0.0122
2006	17-Aug	3	C	200	-0.0178	0.0063	-0.0006	0.5493	-0.0563	0.0155
2006	17-Aug	1	T	200	-0.0043	0.0000	0.0000	0.7353	-0.0939	0.0011
2006	17-Aug	2	T	200	-0.0248	0.0004	0.0000	2.1339	-0.2724	0.0105
2006	17-Aug	3	T	200	-0.0296	0.0110	-0.0014	0.2929	-0.0374	0.0131
2006	24-Aug	1	C	15	-0.0680	0.0076	-0.0045	0.1421	-0.0837	0.0072
2006	24-Aug	2	C	15	-0.0686	0.0013	-0.0008	0.3216	-0.1894	0.0050
2006	24-Aug	3	C	15	-0.0859	0.0102	-0.0060	0.1942	-0.1143	0.0056
2006	24-Aug	1	T	15	-1.1215	0.0051	-0.0030	0.9701	-0.5691	0.0046
2006	24-Aug	2	T	15	-0.4049	0.0028	-0.0017	0.3003	-0.1762	0.0070
2006	24-Aug	3	T	15	-0.3155	0.0043	-0.0025	0.3699	-0.2170	0.0077
2006	24-Aug	1	C	30	-0.1512	0.0100	-0.0057	0.2446	-0.1387	0.0059
2006	24-Aug	2	C	30	-0.1393	0.0061	-0.0035	0.1180	-0.0669	0.0066
2006	24-Aug	3	C	30	-0.6699	0.0027	-0.0016	0.2210	-0.1253	0.0097
2006	24-Aug	1	T	30	-0.1107	0.0045	-0.0026	0.1190	-0.0678	0.0046
2006	24-Aug	2	T	30	-0.5185	0.0051	-0.0029	0.2169	-0.1236	0.0055
2006	24-Aug	3	T	30	-0.2091	0.0044	-0.0025	0.3523	-0.2008	1.6136
2006	24-Aug	1	C	60	-0.6408	0.0087	-0.0047	0.2155	-0.1175	0.0072
2006	24-Aug	2	C	60	-0.3255	0.0046	-0.0025	0.1514	-0.0825	0.0049
2006	24-Aug	3	C	60	-0.3894	0.0001	-0.0001	0.2053	-0.1119	0.0041
2006	24-Aug	1	T	60	-0.6093	0.0061	-0.0033	0.1446	-0.0788	0.0080
2006	24-Aug	2	T	60	-3.3785	0.0078	-0.0043	0.6943	-0.3782	0.0095
2006	24-Aug	3	T	60	-2.5284	0.0052	-0.0028	0.3879	-0.2113	0.0135
2006	24-Aug	1	C	120	-0.8456	0.0066	-0.0034	0.4446	-0.2263	0.0056
2006	24-Aug	2	C	120	-0.6854	0.0069	-0.0035	0.3801	-0.1935	0.0533
2006	24-Aug	3	C	120	-0.7081	0.0067	-0.0034	1.1357	-0.5780	0.0137
2006	24-Aug	1	T	120	-0.4738	0.0006	-0.0003	0.9536	-0.4926	0.0011
2006	24-Aug	2	T	120	-1.8989	0.0039	-0.0020	1.3862	-0.7161	0.0196
2006	24-Aug	3	T	120	-0.1785	0.0042	-0.0022	1.0932	-0.5647	0.0086
2006	24-Aug	1	C	200	-0.0282	0.0015	-0.0007	0.7701	-0.3544	0.0052
2006	24-Aug	2	C	200	-0.0809	0.0063	-0.0029	0.2978	-0.1370	0.0116
2006	24-Aug	3	C	200	-0.1113	0.0021	-0.0009	0.6264	-0.2883	0.0139
2006	24-Aug	1	T	200	-0.0152	0.0009	-0.0003	0.8011	-0.2883	0.0002

year	date	rep	trt	depth	Mg2790	Mo2020	Mo2020	Na5889	Na5889	Ni2316
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml

2006	24-Aug	2 T	200	-0.0631	0.0005	-0.0002	1.8975	-0.6828	0.0110
2006	24-Aug	3 T	200	-0.0737	0.0077	-0.0028	0.2666	-0.0959	0.0106
2006	31-Aug	1 C	15	-0.0739	0.0047	-0.0022	0.1607	-0.0732	0.0058
2006	31-Aug	2 C	15						
2006	31-Aug	3 C	15	-0.0914	0.0014	-0.0006	0.1782	-0.0812	0.0047
2006	31-Aug	1 T	15	-0.9724	0.0087	-0.0043	0.5512	-0.2716	0.0053
2006	31-Aug	2 T	15	-0.6367	0.0049	-0.0024	0.4414	-0.2175	0.0042
2006	31-Aug	3 T	15	-0.2398	0.0072	-0.0035	0.2705	-0.1333	0.0036
2006	31-Aug	1 C	30	-0.0826	0.0083	-0.0044	0.1908	-0.1006	0.0069
2006	31-Aug	2 C	30	-0.1364	0.0063	-0.0033	0.1318	-0.0695	0.0027
2006	31-Aug	3 C	30	-1.0716	0.0037	-0.0020	0.5487	-0.2892	0.0000
2006	31-Aug	1 T	30	-0.1715	0.0004	-0.0002	0.1604	-0.0914	0.0028
2006	31-Aug	2 T	30	-0.4805	0.0038	-0.0022	0.1993	-0.1136	0.0069
2006	31-Aug	3 T	30						
2006	31-Aug	1 C	60	-0.4979	0.0019	-0.0012	0.9968	-0.6461	0.0011
2006	31-Aug	2 C	60	-0.1375	0.0098	-0.0063	0.0956	-0.0620	0.0061
2006	31-Aug	3 C	60	-0.7268	0.0045	-0.0029	0.1626	-0.1054	0.0005
2006	31-Aug	1 T	60	-0.7587	0.0059	-0.0042	0.2023	-0.1436	0.0042
2006	31-Aug	2 T	60	-4.6230	0.0043	-0.0031	0.8158	-0.5789	0.0075
2006	31-Aug	3 T	60	-1.9798	0.0030	-0.0021	0.2516	-0.1785	0.0045
2006	31-Aug	1 C	120	-1.4070	0.0045	-0.0036	0.3856	-0.3069	0.0079
2006	31-Aug	2 C	120	-1.0251	0.0089	-0.0071	0.3433	-0.2733	0.0367
2006	31-Aug	3 C	120	-1.0783	0.0074	-0.0059	0.5946	-0.4733	0.0102
2006	31-Aug	1 T	120	-0.5305	0.0043	-0.0035	0.3237	-0.2650	0.0077
2006	31-Aug	2 T	120	-3.1681	0.0024	-0.0020	1.3863	-1.1346	0.0223
2006	31-Aug	3 T	120	-0.2260	0.0000	0.0000	1.0069	-0.8241	0.0000
2006	31-Aug	1 C	200	-0.0310	0.0000	0.0000	0.7540	-0.5989	0.0010
2006	31-Aug	2 C	200	-0.1307	0.0036	-0.0028	0.3083	-0.2449	0.0093
2006	31-Aug	3 C	200	-0.1132	0.0060	-0.0047	0.5545	-0.4405	0.0081
2006	31-Aug	1 T	200	-0.0220	0.0000	0.0000	0.8226	-0.6187	0.0031
2006	31-Aug	2 T	200	-0.1236	0.0004	-0.0003	1.6231	-1.2208	0.0106
2006	31-Aug	3 T	200	-0.1619	0.0080	-0.0061	0.2555	-0.1922	0.0115
2006	7-Sep	1 C	15	-0.0080	0.0023	0.0000	0.3787	-0.0066	0.0019
2006	7-Sep	2 C	15	-0.0121	0.0000	0.0000	1.2327	-0.0216	0.0058
2006	7-Sep	3 C	15	-0.0077	0.0106	-0.0002	0.3491	-0.0061	0.0037
2006	7-Sep	1 T	15	-0.0730	0.0043	-0.0001	0.4975	-0.0114	0.0077
2006	7-Sep	2 T	15	-0.0360	0.0073	-0.0002	0.4720	-0.0108	0.0070
2006	7-Sep	3 T	15	-0.0224	0.0050	-0.0001	0.3799	-0.0087	0.0072
2006	7-Sep	1 C	30	-0.0060	0.0033	-0.0001	0.3030	-0.0086	0.0026
2006	7-Sep	2 C	30	-0.0228	0.0000	0.0000	0.3385	-0.0096	0.0000
2006	7-Sep	3 C	30	-0.0767	0.0014	0.0000	0.6810	-0.0192	0.0058
2006	7-Sep	1 T	30	-0.0140	0.0078	-0.0003	0.2362	-0.0086	0.0042
2006	7-Sep	2 T	30	-0.0284	0.0038	-0.0001	0.2844	-0.0104	0.0039
2006	7-Sep	3 T	30	-0.0162	0.0003	0.0000	0.4801	-0.0175	0.0951
2006	7-Sep	1 C	60	-0.0311	0.0063	-0.0003	0.2624	-0.0125	0.0060
2006	7-Sep	2 C	60	-0.0524	0.0028	-0.0001	0.2932	-0.0140	0.0048

year	date	rep	trt	depth	Mg2790	Mo2020	Mo2020	Na5889	Na5889	Ni2316
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml

2006	7-Sep	3 C	60	-0.0511	0.0028	-0.0001	0.2269	-0.0108	0.0053
2006	7-Sep	1 T	60	-0.0803	0.0087	-0.0006	0.2296	-0.0161	0.0078
2006	7-Sep	2 T	60	-0.2605	0.0067	-0.0005	0.5545	-0.0388	0.0064
2006	7-Sep	3 T	60	-0.1664	0.0033	-0.0002	0.2912	-0.0204	0.0061
2006	7-Sep	1 C	120	-0.2613	0.0033	-0.0004	0.4412	-0.0558	0.0071
2006	7-Sep	2 C	120	-0.1577	0.0043	-0.0005	0.5126	-0.0648	0.0576
2006	7-Sep	3 C	120	-0.0174	0.0032	-0.0004	0.6195	-0.0784	0.0098
2006	7-Sep	1 T	120	-0.1651	0.0043	-0.0008	0.8338	-0.1543	0.0077
2006	7-Sep	2 T	120	-0.7448	0.0000	0.0000	1.5308	-0.2832	0.0143
2006	7-Sep	3 T	120	-0.0578	0.0000	0.0000	1.1789	-0.2181	0.0014
2006	7-Sep	1 C	200	-0.0128	0.0040	-0.0010	0.8261	-0.2037	0.0060
2006	7-Sep	2 C	200	-0.0473	0.0096	-0.0024	0.4264	-0.1052	0.0138
2006	7-Sep	3 C	200	-0.3099	0.0000	0.0000	1.5811	-0.3900	0.0084
2006	7-Sep	1 T	200	0.0000	0.0000	0.0000	0.6452	-0.2198	0.0000
2006	7-Sep	2 T	200	-0.0625	0.0000	0.0000	1.6520	-0.5628	0.0099
2006	7-Sep	3 T	200	-0.0794	0.0054	-0.0018	0.3452	-0.1176	0.0167
2006	14-Sep	1 C	15	-0.1630	0.0000	0.0000	0.6048	-0.0368	0.0000
2006	14-Sep	2 C	15	-0.0778	0.0026	-0.0002	0.6013	-0.0366	0.0046
2006	14-Sep	3 C	15	-0.0882	0.0019	-0.0001	1.6349	-0.0996	0.0105
2006	14-Sep	1 T	15	-0.6109	0.0045	-0.0003	2.9783	-0.1808	0.0090
2006	14-Sep	2 T	15	-0.1261	0.0000	0.0000	0.5394	-0.0327	0.0074
2006	14-Sep	3 T	15	-0.1262	0.0012	-0.0001	0.8441	-0.0512	0.0066
2006	14-Sep	1 C	30	-0.0204	0.0000	0.0000	0.3426	-0.0208	0.0038
2006	14-Sep	2 C	30	-0.0608	0.0047	-0.0003	0.3014	-0.0183	0.0043
2006	14-Sep	3 C	30	-0.0980	0.0004	0.0000	0.5666	-0.0343	0.0055
2006	14-Sep	1 T	30	-0.0355	0.0033	-0.0002	0.3141	-0.0198	0.0043
2006	14-Sep	2 T	30	-0.0703	0.0000	0.0000	0.3707	-0.0233	0.0054
2006	14-Sep	3 T	30	-0.0278	0.0045	-0.0003	0.4832	-0.0304	0.2536
2006	14-Sep	1 C	60	-0.0419	0.0083	-0.0005	0.3396	-0.0209	0.0049
2006	14-Sep	2 C	60	-0.0629	0.0000	0.0000	0.2572	-0.0158	0.0056
2006	14-Sep	3 C	60	-0.0638	0.0000	0.0000	0.3147	-0.0194	0.0000
2006	14-Sep	1 T	60	-0.0833	0.0000	0.0000	0.3012	-0.0206	0.0031
2006	14-Sep	2 T	60	-0.3021	0.0042	-0.0003	0.7001	-0.0480	0.0087
2006	14-Sep	3 T	60	-0.1570	0.0002	0.0000	0.3381	-0.0232	0.0055
2006	14-Sep	1 C	120	-0.1619	0.0000	0.0000	0.4815	-0.0378	0.0065
2006	14-Sep	2 C	120	-0.1077	0.0000	0.0000	0.4275	-0.0336	0.0383
2006	14-Sep	3 C	120	-0.0992	0.0000	0.0000	1.6494	-0.1296	0.0086
2006	14-Sep	1 T	120	-0.1029	0.0000	0.0000	1.0324	-0.1060	0.0022
2006	14-Sep	2 T	120	-0.4014	0.0018	-0.0002	1.5081	-0.1548	0.0185
2006	14-Sep	3 T	120	-0.0307	0.0003	0.0000	1.1133	-0.1143	0.0083
2006	14-Sep	1 C	200	-0.0069	0.0003	0.0000	0.8755	-0.1151	0.0008
2006	14-Sep	2 C	200	-0.0252	0.0024	-0.0003	0.4133	-0.0543	0.0141
2006	14-Sep	3 C	200	-0.0193	0.0015	-0.0002	0.6787	-0.0892	0.0082
2006	14-Sep	1 T	200	-0.0039	0.0000	0.0000	0.9293	-0.1649	0.0000
2006	14-Sep	2 T	200	-0.0327	0.0014	-0.0003	1.6306	-0.2893	0.0105
2006	14-Sep	3 T	200	-0.0377	0.0004	-0.0001	0.3773	-0.0669	0.0117

year	date	rep	trt	depth cm	Mg2790 kg/ha	Mo2020 ug/ml	Mo2020 kg/ha	Na5889 ug/ml	Na5889 kg/ha	Ni2316 ug/ml
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2006	21-Sep	1	C	15	-0.2159	0.0000	0.0000	0.4569	-0.0286	0.0028
2006	21-Sep	2	C	15	-0.3144	0.0000	0.0000	2.6891	-0.1686	0.0070
2006	21-Sep	3	C	15	-0.0675	0.0059	-0.0004	0.9093	-0.0570	0.0080
2006	21-Sep	1	T	15	-1.6217	0.0035	-0.0002	7.8716	-0.5192	0.0138
2006	21-Sep	2	T	15	-0.3094	0.0000	0.0000	1.0895	-0.0719	0.0046
2006	21-Sep	3	T	15	-0.4186	0.0000	0.0000	2.7185	-0.1793	0.0031
2006	21-Sep	1	C	30	-0.0345	0.0000	0.0000	0.4006	-0.0308	0.0031
2006	21-Sep	2	C	30	-0.1520	0.0024	-0.0002	0.4056	-0.0312	0.0028
2006	21-Sep	3	C	30	-0.1126	0.0000	0.0000	0.6289	-0.0484	0.0084
2006	21-Sep	1	T	30	-0.0651	0.0000	0.0000	0.3755	-0.0310	0.0037
2006	21-Sep	2	T	30	-0.1164	0.0016	-0.0001	0.3777	-0.0312	0.0094
2006	21-Sep	3	T	30	-0.0257	0.0020	-0.0002	0.8983	-0.0742	0.6833
2006	21-Sep	1	C	60	-0.0524	0.0000	0.0000	0.4883	-0.0454	0.0048
2006	21-Sep	2	C	60	-0.0399	0.0000	0.0000	0.2282	-0.0212	0.0052
2006	21-Sep	3	C	60	-0.0911	0.0044	-0.0004	0.2952	-0.0274	0.0060
2006	21-Sep	1	T	60	-0.1043	0.0000	0.0000	0.3019	-0.0298	0.0023
2006	21-Sep	2	T	60	-0.3765	0.0007	-0.0001	0.6372	-0.0629	0.0095
2006	21-Sep	3	T	60	-0.2110	0.0000	0.0000	0.3490	-0.0344	0.0047
2006	21-Sep	1	C	120	-0.1909	0.0001	0.0000	0.4962	-0.0468	0.0063
2006	21-Sep	2	C	120	-0.1493	0.0000	0.0000	0.4841	-0.0457	0.0282
2006	21-Sep	3	C	120	-0.1194	0.0006	-0.0001	1.6464	-0.1553	0.0100
2006	21-Sep	1	T	120	-0.1067	0.0000	0.0000	1.0009	-0.1005	0.0084
2006	21-Sep	2	T	120	-0.3906	0.0029	-0.0003	1.5018	-0.1508	0.0184
2006	21-Sep	3	T	120	-0.0279	0.0014	-0.0001	1.0784	-0.1083	0.0059
2006	21-Sep	1	C	200	-0.0045	0.0000	0.0000	0.9055	-0.0929	0.0037
2006	21-Sep	2	C	200	-0.0209	0.0005	-0.0001	0.4784	-0.0491	0.0114
2006	21-Sep	3	C	200	-0.0127	0.0017	-0.0002	0.7440	-0.0764	0.0087
2006	21-Sep	1	T	200	-0.0066	0.0036	-0.0005	1.0299	-0.1323	0.0062
2006	21-Sep	2	T	200	-0.0209	0.0014	-0.0002	1.5695	-0.2017	0.0083
2006	21-Sep	3	T	200	-0.0275	0.0007	-0.0001	0.4135	-0.0531	0.0079
2006	28-Sep	1	C	15	-0.9560	0.0100	-0.0018	0.5925	-0.1070	0.0065
2006	28-Sep	2	C	15	-2.0019	0.0172	-0.0031	4.7430	-0.8563	0.0160
2006	28-Sep	3	C	15	-0.2836	0.0174	-0.0031	0.6497	-0.1173	0.0066
2006	28-Sep	1	T	15	-2.6895	0.0000	0.0000	2.7594	-0.4903	0.0113
2006	28-Sep	2	T	15	-1.5142	0.0057	-0.0010	2.0239	-0.3596	0.0065
2006	28-Sep	3	T	15	-1.2007	0.0081	-0.0014	1.9755	-0.3510	0.0091
2006	28-Sep	1	C	30	-0.1623	0.0050	-0.0008	1.4327	-0.2269	0.0015
2006	28-Sep	2	C	30	-0.5565	0.0154	-0.0024	0.4573	-0.0724	0.0047
2006	28-Sep	3	C	30	-0.2131	0.0079	-0.0013	0.9486	-0.1502	0.0056
2006	28-Sep	1	T	30	-0.2006	0.0006	-0.0001	0.4781	-0.0707	0.0022
2006	28-Sep	2	T	30	-0.2675	0.0057	-0.0008	0.8385	-0.1241	0.0067
2006	28-Sep	3	T	30	-0.2689	0.0111	-0.0016	1.6617	-0.2459	0.2172
2006	28-Sep	1	C	60	-0.0852	0.0181	-0.0022	0.5666	-0.0683	0.0122
2006	28-Sep	2	C	60	-0.1198	0.0143	-0.0017	0.4970	-0.0599	0.0063
2006	28-Sep	3	C	60	-0.1126	0.0078	-0.0009	0.2336	-0.0282	0.0066
2006	28-Sep	1	T	60	-0.1229	0.0000	0.0000	0.3706	-0.0417	0.0037

year	date	rep	trt	depth	Mg2790	Mo2020	Mo2020	Na5889	Na5889	Ni2316
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml

2006	28-Sep	2 T	60	-0.3920	0.0076	-0.0008	0.6841	-0.0769	0.0093
2006	28-Sep	3 T	60	-0.2339	0.0094	-0.0011	0.4609	-0.0518	0.0047
2006	28-Sep	1 C	120	-0.1782	0.0086	-0.0007	0.4965	-0.0421	0.0009
2006	28-Sep	2 C	120	-0.1322	0.0018	-0.0002	0.4401	-0.0373	0.0263
2006	28-Sep	3 C	120	-0.1383	0.0000	0.0000	0.9816	-0.0833	0.0098
2006	28-Sep	1 T	120	-0.0909	0.0021	-0.0002	0.9576	-0.0866	0.0068
2006	28-Sep	2 T	120	-0.3352	0.0064	-0.0006	1.6741	-0.1513	0.0165
2006	28-Sep	3 T	120	-0.0291	0.0029	-0.0003	1.4474	-0.1308	0.0039
2006	28-Sep	1 C	200	-0.0053	0.0068	-0.0006	0.8642	-0.0813	0.0000
2006	28-Sep	2 C	200	-0.0201	0.0120	-0.0011	0.4379	-0.0412	0.0131
2006	28-Sep	3 C	200	-0.0152	0.0170	-0.0016	0.8212	-0.0773	0.0172
2006	28-Sep	1 T	200	-0.0035	0.0000	0.0000	1.0511	-0.1179	0.0006
2006	28-Sep	2 T	200	-0.0193	0.0092	-0.0010	1.7165	-0.1925	0.0131
2006	28-Sep	3 T	200	-0.0257	0.0107	-0.0012	0.3662	-0.0411	0.0099
2006	5-Oct	1 C	15	-1.5590	0.0146	-0.0048	0.5182	-0.1708	0.0039
2006	5-Oct	2 C	15	-1.3674	0.0133	-0.0044	1.2803	-0.4220	0.0122
2006	5-Oct	3 C	15	-0.5911	0.0138	-0.0045	0.6616	-0.2180	0.0084
2006	5-Oct	1 T	15	-2.5837	0.0128	-0.0040	1.3719	-0.4322	0.0087
2006	5-Oct	2 T	15	-1.3919	0.0156	-0.0049	0.7477	-0.2356	0.0086
2006	5-Oct	3 T	15	-0.9901	0.0097	-0.0031	0.7647	-0.2409	0.0103
2006	5-Oct	1 C	30	-0.4605	0.0128	-0.0037	4.4946	-1.2930	0.0037
2006	5-Oct	2 C	30	-1.0895	0.0132	-0.0038	0.4395	-0.1264	0.0056
2006	5-Oct	3 C	30	-0.4150	0.0062	-0.0018	1.5659	-0.4505	0.0021
2006	5-Oct	1 T	30	-0.4151	0.0077	-0.0021	0.7856	-0.2164	0.0000
2006	5-Oct	2 T	30	-0.6681	0.0142	-0.0039	0.5415	-0.1492	0.0053
2006	5-Oct	3 T	30	-0.7829	0.0159	-0.0044	1.2016	-0.3310	0.2934
2006	5-Oct	1 C	60	-0.1496	0.0184	-0.0044	0.6175	-0.1470	0.0041
2006	5-Oct	2 C	60	-0.1508	0.0150	-0.0036	0.5270	-0.1255	0.0036
2006	5-Oct	3 C	60	-0.2051	0.0121	-0.0029	0.3162	-0.0753	0.0005
2006	5-Oct	1 T	60	-0.2417	0.0162	-0.0036	0.3219	-0.0717	0.0035
2006	5-Oct	2 T	60	-0.8888	0.0111	-0.0025	1.3480	-0.3001	0.0088
2006	5-Oct	3 T	60	-0.3578	0.0072	-0.0016	0.8477	-0.1887	0.0061
2006	5-Oct	1 C	120	-0.3695	0.0000	0.0000	0.4348	-0.0701	0.0049
2006	5-Oct	2 C	120	-0.2784	0.0122	-0.0020	0.3503	-0.0565	0.0246
2006	5-Oct	3 C	120	-0.2546	0.0000	0.0000	0.9901	-0.1597	0.0088
2006	5-Oct	1 T	120	-0.1435	0.0000	0.0000	0.6825	-0.0923	0.0090
2006	5-Oct	2 T	120	-0.4684	0.0069	-0.0009	1.5850	-0.2144	0.0140
2006	5-Oct	3 T	120	-0.0529	0.0114	-0.0015	1.1382	-0.1540	0.0064
2006	5-Oct	1 C	200	-0.0067	0.0120	-0.0012	0.9059	-0.0889	0.0053
2006	5-Oct	2 C	200	-0.0233	0.0167	-0.0016	0.4078	-0.0400	0.0137
2006	5-Oct	3 C	200	-0.0155	0.0107	-0.0010	0.9087	-0.0892	0.0167
2006	5-Oct	1 T	200	-0.0044	0.0069	-0.0007	1.0280	-0.1068	0.0017
2006	5-Oct	2 T	200	-0.0190	0.0128	-0.0013	1.5667	-0.1628	0.0095
2006	5-Oct	3 T	200	-0.0257	0.0016	-0.0002	0.4283	-0.0445	0.0030
2006	12-Oct	1 C	15	-0.5759	0.0145	-0.0020	0.4541	-0.0618	0.0031
2006	12-Oct	2 C	15	-0.1292	0.0132	-0.0018	0.4236	-0.0577	0.0071

year	date	rep	trt	depth	Mg2790	Mo2020	Mo2020	Na5889	Na5889	Ni2316
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml

2006	12-Oct	3 C	15	-0.1912	0.0089	-0.0012	0.4788	-0.0652	0.0093
2006	12-Oct	1 T	15	-0.3677	0.0107	-0.0014	0.5539	-0.0740	0.0059
2006	12-Oct	2 T	15	-0.5303	0.0141	-0.0019	0.6380	-0.0853	0.0088
2006	12-Oct	3 T	15	-0.5759	0.0117	-0.0016	1.1201	-0.1497	0.0090
2006	12-Oct	1 C	30	-0.5570	0.0119	-0.0014	5.7220	-0.6624	0.0068
2006	12-Oct	2 C	30	-0.3796	0.0098	-0.0011	0.4349	-0.0503	0.0027
2006	12-Oct	3 C	30	-0.1580	0.0123	-0.0014	1.5954	-0.1847	0.0023
2006	12-Oct	1 T	30	-0.3346	0.0122	-0.0014	2.0544	-0.2327	0.0066
2006	12-Oct	2 T	30	-0.2787	0.0098	-0.0011	0.5313	-0.0602	0.0053
2006	12-Oct	3 T	30	-0.3830	0.0129	-0.0015	2.6139	-0.2961	0.0581
2006	12-Oct	1 C	60	-0.0641	0.0051	-0.0005	0.6668	-0.0653	0.0039
2006	12-Oct	2 C	60	-0.1313	0.0210	-0.0021	0.7329	-0.0718	0.0060
2006	12-Oct	3 C	60	-0.0717	0.0167	-0.0016	0.2673	-0.0262	0.0030
2006	12-Oct	1 T	60	-0.1303	0.0125	-0.0014	0.7233	-0.0792	0.0047
2006	12-Oct	2 T	60	-0.4125	0.0108	-0.0012	2.3437	-0.2567	0.0064
2006	12-Oct	3 T	60	-0.1621	0.0111	-0.0012	0.8372	-0.0917	0.0061
2006	12-Oct	1 C	120	-0.3037	0.0087	-0.0011	0.4866	-0.0642	0.0095
2006	12-Oct	2 C	120	-0.2168	0.0102	-0.0013	0.3838	-0.0507	0.0349
2006	12-Oct	3 C	120	-0.1825	0.0003	0.0000	1.3473	-0.1779	0.0084
2006	12-Oct	1 T	120	-0.1814	0.0101	-0.0015	0.8064	-0.1218	0.0090
2006	12-Oct	2 T	120	-0.5246	0.0157	-0.0024	1.5130	-0.2286	0.0206
2006	12-Oct	3 T	120	-0.0617	0.0152	-0.0023	1.0484	-0.1584	0.0109
2006	12-Oct	1 C	200	-0.0096	0.0065	-0.0009	0.8772	-0.1246	0.0044
2006	12-Oct	2 C	200	-0.0311	0.0104	-0.0015	0.4480	-0.0636	0.0123
2006	12-Oct	3 C	200	-0.0178	0.0057	-0.0008	0.8597	-0.1221	0.0110
2006	12-Oct	1 T	200	-0.0070	0.0077	-0.0010	1.0323	-0.1314	0.0029
2006	12-Oct	2 T	200	-0.0219	0.0095	-0.0012	1.5541	-0.1978	0.0068
2006	12-Oct	3 T	200	-0.0299	0.0118	-0.0015	0.3754	-0.0478	0.0135
2006	19-Oct	1 C	15	-2.1791	0.0135	-0.0063	0.4748	-0.2211	0.0045
2006	19-Oct	2 C	15	-0.4666	0.0000	0.0000	0.4226	-0.1968	0.0053
2006	19-Oct	3 C	15	-0.6561	0.0006	-0.0003	0.4183	-0.1948	0.0049
2006	19-Oct	1 T	15	-0.8071	0.0085	-0.0037	0.4324	-0.1904	0.0044
2006	19-Oct	2 T	15	-1.4000	0.0242	-0.0106	0.6342	-0.2793	0.0101
2006	19-Oct	3 T	15	-1.1754	0.0185	-0.0082	0.8501	-0.3744	0.0090
2006	19-Oct	1 C	30	-1.9917	0.0148	-0.0059	2.5609	-1.0283	0.0080
2006	19-Oct	2 C	30	-1.2034	0.0033	-0.0013	0.3384	-0.1359	0.0016
2006	19-Oct	3 C	30	-0.6615	0.0044	-0.0018	1.7780	-0.7140	0.0027
2006	19-Oct	1 T	30	-1.5110	0.0083	-0.0029	2.5219	-0.8864	0.0041
2006	19-Oct	2 T	30	-0.9338	0.0082	-0.0029	0.5410	-0.1902	0.0017
2006	19-Oct	3 T	30	-1.9694	0.0031	-0.0011	3.4925	-1.2275	0.0424
2006	19-Oct	1 C	60	-0.1567	0.0127	-0.0034	0.6427	-0.1699	0.0040
2006	19-Oct	2 C	60	-0.1954	0.0002	-0.0001	0.4509	-0.1192	0.0040
2006	19-Oct	3 C	60	-0.1823	0.0041	-0.0011	0.3006	-0.0794	0.0017
2006	19-Oct	1 T	60	-0.2049	0.0078	-0.0015	0.7933	-0.1548	0.0038
2006	19-Oct	2 T	60	-0.8084	0.0141	-0.0028	2.1607	-0.4215	0.0067
2006	19-Oct	3 T	60	-0.2344	0.0173	-0.0034	0.9334	-0.1821	0.0031

year	date	rep	trt	depth	Mg2790	Mo2020	Mo2020	Na5889	Na5889	Ni2316
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml

2006	19-Oct	1	C	120	-0.3165	0.0000	0.0000	0.4125	-0.0569	0.0062
2006	19-Oct	2	C	120	-0.2275	0.0000	0.0000	0.3668	-0.0506	0.0227
2006	19-Oct	3	C	120	-0.1890	0.0000	0.0000	1.3367	-0.1843	0.0095
2006	19-Oct	1	T	120	-0.0082	0.0148	-0.0019	1.0235	-0.1340	0.0061
2006	19-Oct	2	T	120	-0.4053	0.0116	-0.0015	1.4012	-0.1835	0.0134
2006	19-Oct	3	T	120	-0.0699	0.0078	-0.0010	1.2674	-0.1660	0.0057
2006	19-Oct	1	C	200	-0.0068	0.0000	0.0000	0.9283	-0.1228	0.0006
2006	19-Oct	2	C	200	-0.0243	0.0049	-0.0007	0.4337	-0.0574	0.0098
2006	19-Oct	3	C	200	-0.0162	0.0000	0.0000	0.9060	-0.1198	0.0098
2006	19-Oct	1	T	200	-0.1634	0.0126	-0.0017	0.8103	-0.1084	0.0122
2006	19-Oct	2	T	200	-0.0209	0.0104	-0.0014	1.3618	-0.1822	0.0084
2006	19-Oct	3	T	200	-0.0282	0.0146	-0.0020	0.4296	-0.0575	0.0092
2006	26-Oct	1	C	15	-5.4799	0.0078	-0.0128	0.2877	-0.4711	0.0050
2006	26-Oct	2	C	15	-0.8154	0.0051	-0.0083	0.2931	-0.4799	0.0056
2006	26-Oct	3	C	15	-0.6621	0.0051	-0.0083	0.1792	-0.2934	0.0048
2006	26-Oct	1	T	15	-1.2858	0.0029	-0.0049	0.2954	-0.4865	0.0028
2006	26-Oct	2	T	15	-4.1966	0.0062	-0.0103	0.4750	-0.7822	0.0091
2006	26-Oct	3	T	15	-1.3321	0.0013	-0.0021	0.3269	-0.5384	0.0058
2006	26-Oct	1	C	30	-10.3537	0.0000	0.0000	1.8374	-3.0681	0.0070
2006	26-Oct	2	C	30	-2.5287	0.0085	-0.0141	0.2485	-0.4150	0.0041
2006	26-Oct	3	C	30	-3.2316	0.0000	0.0000	1.2231	-2.0424	0.0066
2006	26-Oct	1	T	30	-5.2643	0.0003	-0.0005	0.8273	-1.4037	0.0010
2006	26-Oct	2	T	30	-7.3359	0.0086	-0.0147	0.4828	-0.8191	0.0093
2006	26-Oct	3	T	30	-1.9625	0.0105	-0.0179	0.5100	-0.8653	0.0155
2006	26-Oct	1	C	60	-1.1179	0.0039	-0.0066	0.4841	-0.8153	0.0000
2006	26-Oct	2	C	60	-1.7530	0.0071	-0.0119	0.2760	-0.4649	0.0071
2006	26-Oct	3	C	60	-1.1399	0.0050	-0.0085	0.2441	-0.4112	0.0036
2006	26-Oct	1	T	60	-3.5899	0.0007	-0.0012	0.8696	-1.5271	0.0026
2006	26-Oct	2	T	60	-9.3131	0.0033	-0.0058	1.1580	-2.0336	0.0032
2006	26-Oct	3	T	60	-1.8141	0.0073	-0.0127	0.6008	-1.0551	0.0062
2006	26-Oct	1	C	120	-3.0906	0.0020	-0.0031	0.3355	-0.5302	0.0102
2006	26-Oct	2	C	120	-2.8788	0.0107	-0.0170	0.4258	-0.6730	0.0207
2006	26-Oct	3	C	120	-2.4003	0.0100	-0.0159	0.4825	-0.7626	0.0128
2006	26-Oct	1	T	120	-2.0180	0.0016	-0.0025	0.3190	-0.5089	0.0089
2006	26-Oct	2	T	120	-5.3186	0.0001	-0.0001	1.6077	-2.5642	0.0144
2006	26-Oct	3	T	120	-0.9731	0.0079	-0.0127	0.7100	-1.1325	0.0115
2006	26-Oct	1	C	200	-0.1036	0.0056	-0.0080	0.9213	-1.3122	0.0082
2006	26-Oct	2	C	200	-0.2662	0.0061	-0.0087	0.3402	-0.4846	0.0123
2006	26-Oct	3	C	200	-0.2265	0.0103	-0.0147	0.9078	-1.2929	0.0183
2006	26-Oct	1	T	200	-0.0623	0.0034	-0.0046	0.9383	-1.2636	0.0038
2006	26-Oct	2	T	200	-0.1981	0.0000	0.0000	1.4227	-1.9159	0.0092
2006	26-Oct	3	T	200	-0.3029	0.0043	-0.0058	0.3057	-0.4117	0.0125
2006	2-Nov	1	C	15	0.1227	0.0053	0.0002	0.3715	0.0146	0.0002
2006	2-Nov	2	C	15	0.0072	0.0050	0.0002	0.2620	0.0103	0.0018
2006	2-Nov	3	C	15	0.0109	0.0062	0.0002	0.2305	0.0090	0.0064
2006	2-Nov	1	T	15	0.0199	0.0079	0.0002	0.2408	0.0066	0.0089

year	date	rep	trt	depth	Mg2790	Mo2020	Mo2020	Na5889	Na5889	Ni2316
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml

2006	2-Nov	2 T	15	0.0284	0.0109	0.0003	0.4082	0.0112	0.0049
2006	2-Nov	3 T	15	0.0114	0.0090	0.0002	0.3096	0.0085	0.0068
2006	2-Nov	1 C	30	-0.0136	0.0070	0.0000	0.4523	-0.0019	0.0052
2006	2-Nov	2 C	30	-0.0022	0.0000	0.0000	0.6459	-0.0027	0.0059
2006	2-Nov	3 C	30	-0.0069	0.0037	0.0000	0.8101	-0.0033	0.0052
2006	2-Nov	1 T	30	-0.0964	0.0002	0.0000	0.5842	-0.0177	0.0000
2006	2-Nov	2 T	30	-0.1168	0.0063	-0.0002	0.4149	-0.0125	0.0072
2006	2-Nov	3 T	30	-0.0317	0.0055	-0.0002	0.3825	-0.0116	0.0766
2006	2-Nov	1 C	60	-0.0401	0.0075	-0.0005	0.3846	-0.0240	0.0034
2006	2-Nov	2 C	60	-0.0818	0.0105	-0.0007	0.3113	-0.0194	0.0048
2006	2-Nov	3 C	60	-0.0404	0.0066	-0.0004	0.3726	-0.0232	0.0061
2006	2-Nov	1 T	60	-0.2219	0.0083	-0.0008	1.0030	-0.1004	0.0074
2006	2-Nov	2 T	60	-0.3932	0.0032	-0.0003	0.8440	-0.0845	0.0088
2006	2-Nov	3 T	60	-0.0851	0.0019	-0.0002	0.6669	-0.0668	0.0069
2006	2-Nov	1 C	120	-0.3674	0.0052	-0.0007	0.7812	-0.1072	0.0075
2006	2-Nov	2 C	120	-0.2394	0.0034	-0.0005	0.3764	-0.0516	0.0304
2006	2-Nov	3 C	120	-0.1841	0.0018	-0.0002	1.0084	-0.1383	0.0120
2006	2-Nov	1 T	120	-0.2592	0.0061	-0.0013	0.5096	-0.1048	0.0096
2006	2-Nov	2 T	120	-0.7559	0.0135	-0.0028	1.4596	-0.3002	0.0198
2006	2-Nov	3 T	120	-0.1890	0.0020	-0.0004	1.0718	-0.2204	0.0069
2006	2-Nov	1 C	200	-0.0191	0.0084	-0.0023	0.8770	-0.2422	0.0070
2006	2-Nov	2 C	200	-0.0704	0.0043	-0.0012	0.3997	-0.1104	0.0141
2006	2-Nov	3 C	200	-0.0653	0.0067	-0.0019	1.0574	-0.2920	0.0145
2006	2-Nov	1 T	200	-0.0208	0.0085	-0.0032	1.0843	-0.4170	0.0032
2006	2-Nov	2 T	200	-0.0716	0.0094	-0.0036	1.4539	-0.5592	0.0121
2006	2-Nov	3 T	200	-0.0777	0.0000	0.0000	0.2562	-0.0985	0.0075
2006	9-Nov	1 C	15	-1.4378	0.0105	-0.0050	0.3142	-0.1501	0.0046
2006	9-Nov	2 C	15	-0.0400	0.0000	0.0000	0.2437	-0.1164	0.0044
2006	9-Nov	3 C	15	-0.2141	0.0050	-0.0024	0.3218	-0.1537	0.0062
2006	9-Nov	1 T	15	-0.1951	0.0077	-0.0035	0.2684	-0.1221	0.0059
2006	9-Nov	2 T	15	-0.7508	0.0049	-0.0022	0.6801	-0.3094	0.0080
2006	9-Nov	3 T	15	-0.1609	0.0000	0.0000	0.5369	-0.2442	0.0042
2006	9-Nov	1 C	30	-1.2965	0.0110	-0.0037	0.6712	-0.2243	0.0080
2006	9-Nov	2 C	30	-0.3154	0.0104	-0.0035	0.2999	-0.1002	0.0077
2006	9-Nov	3 C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	9-Nov	1 T	30	-0.4874	0.0008	-0.0002	0.3962	-0.1133	0.0060
2006	9-Nov	2 T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	9-Nov	3 T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	9-Nov	1 C	60	-0.0739	0.0071	-0.0006	0.3513	-0.0291	0.0069
2006	9-Nov	2 C	60	-0.0369	0.0003	0.0000	0.4513	-0.0374	0.0059
2006	9-Nov	3 C	60	-0.0607	0.0083	-0.0007	0.4685	-0.0388	0.0060
2006	9-Nov	1 T	60	-0.0788	0.0024	-0.0001	1.0792	-0.0335	0.0050
2006	9-Nov	2 T	60	-0.1332	0.0018	-0.0001	0.7227	-0.0224	0.0089
2006	9-Nov	3 T	60						
2006	9-Nov	1 C	120	-0.0280	0.0061	-0.0001	0.8764	-0.0093	0.0029
2006	9-Nov	2 C	120	-0.0178	0.0052	-0.0001	0.3913	-0.0042	0.0341

year	date	rep	trt	depth	Mg2790	Mo2020	Mo2020	Na5889	Na5889	Ni2316
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml

2006	9-Nov	3 C	120	-0.0146	0.0022	0.0000	0.6527	-0.0070	0.0094
2006	9-Nov	1 T	120	-0.0408	0.0058	-0.0002	0.4595	-0.0184	0.0077
2006	9-Nov	2 T	120	-0.1457	0.0080	-0.0003	1.3544	-0.0541	0.0223
2006	9-Nov	3 T	120	-0.0325	0.0046	-0.0002	2.0984	-0.0838	0.0120
2006	9-Nov	1 C	200	-0.0081	0.0030	-0.0004	0.9666	-0.1151	0.0024
2006	9-Nov	2 C	200	-0.0666	0.0087	-0.0010	0.4392	-0.0523	0.0166
2006	9-Nov	3 C	200	-0.0169	0.0095	-0.0011	1.0485	-0.1249	0.0120
2006	9-Nov	1 T	200	-0.0071	0.0000	0.0000	1.0163	-0.1725	0.0021
2006	9-Nov	2 T	200	-0.0301	0.0040	-0.0007	1.4931	-0.2534	0.0070
2006	9-Nov	3 T	200	-0.0382	0.0034	-0.0006	0.4452	-0.0756	0.0106
2006	16-Nov	1 C	15	-1.9864	0.0146	-0.0086	0.3945	-0.2317	0.0059
2006	16-Nov	2 C	15	-0.0478	0.0067	-0.0039	0.3330	-0.1956	0.0036
2006	16-Nov	3 C	15	-0.2075	0.0094	-0.0055	0.3886	-0.2283	0.0076
2006	16-Nov	1 T	15	-0.2425	0.0052	-0.0031	0.2369	-0.1422	0.0054
2006	16-Nov	2 T	15	-0.7405	0.0086	-0.0052	0.4401	-0.2642	0.0052
2006	16-Nov	3 T	15	-0.3383	0.0064	-0.0039	0.3698	-0.2220	0.0095
2006	16-Nov	1 C	30	-1.5183	0.0086	-0.0048	0.4385	-0.2449	0.0066
2006	16-Nov	2 C	30	-0.1339	0.0058	-0.0032	0.2615	-0.1460	0.0047
2006	16-Nov	3 C	30	-0.8806	0.0097	-0.0054	0.7370	-0.4116	0.0060
2006	16-Nov	1 T	30	-0.7347	0.0109	-0.0066	0.3213	-0.1934	0.0073
2006	16-Nov	2 T	30	-2.0451	0.0049	-0.0030	0.4396	-0.2646	0.0050
2006	16-Nov	3 T	30	-0.6092	0.0063	-0.0038	0.3682	-0.2216	0.0100
2006	16-Nov	1 C	60	-0.4376	0.0058	-0.0032	0.3681	-0.2037	0.0036
2006	16-Nov	2 C	60	-0.2755	0.0073	-0.0041	0.2402	-0.1329	0.0097
2006	16-Nov	3 C	60	-0.3573	0.0000	0.0000	0.4147	-0.2294	0.0000
2006	16-Nov	1 T	60	-0.8139	0.0090	-0.0051	0.5154	-0.2934	0.0022
2006	16-Nov	2 T	60	-1.5314	0.0049	-0.0028	0.6395	-0.3640	0.0052
2006	16-Nov	3 T	60	-0.4959	0.0013	-0.0008	0.6537	-0.3721	0.0060
2006	16-Nov	1 C	120	-0.4845	0.0059	-0.0014	0.4463	-0.1088	0.0063
2006	16-Nov	2 C	120	-0.3822	0.0018	-0.0004	0.4303	-0.1050	0.0323
2006	16-Nov	3 C	120	-0.3406	0.0000	0.0000	0.9859	-0.2405	0.0052
2006	16-Nov	1 T	120	-0.1658	0.0074	-0.0012	0.4393	-0.0706	0.0093
2006	16-Nov	2 T	120	-0.5766	0.0040	-0.0007	1.1945	-0.1920	0.0175
2006	16-Nov	3 T	120	-0.1091	0.0114	-0.0018	1.2500	-0.2009	0.0087
2006	16-Nov	1 C	200	-0.0048	0.0007	-0.0001	0.9365	-0.0752	0.0054
2006	16-Nov	2 C	200	-0.0222	0.0086	-0.0007	0.4445	-0.0357	0.0127
2006	16-Nov	3 C	200	-0.0094	0.0062	-0.0005	0.9663	-0.0776	0.0066
2006	16-Nov	1 T	200	-0.0043	0.0039	-0.0004	1.1036	-0.1123	0.0000
2006	16-Nov	2 T	200	-0.0172	0.0057	-0.0006	1.4180	-0.1443	0.0103
2006	16-Nov	3 T	200	-0.0217	0.0040	-0.0004	0.3984	-0.0406	0.0110
2006	23-Nov	1 C	15	-0.8940	0.0000	0.0000	0.3921	-0.1000	0.0000
2006	23-Nov	2 C	15	-0.0158	0.0000	0.0000	0.3026	-0.0772	0.0000
2006	23-Nov	3 C	15	-0.0824	0.0000	0.0000	0.4582	-0.1169	0.0004
2006	23-Nov	1 T	15	-0.0757	0.0011	-0.0003	0.2408	-0.0631	0.0000
2006	23-Nov	2 T	15	-0.2417	0.0018	-0.0005	0.4174	-0.1093	0.0000
2006	23-Nov	3 T	15	-0.2339	0.0000	0.0000	0.4068	-0.1066	0.0000

year	date	rep	trt	depth	Mg2790	Mo2020	Mo2020	Na5889	Na5889	Ni2316
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml

2006	23-Nov	1	C	30	-0.5643	0.0027	-0.0007	0.4308	-0.1065	0.0025
2006	23-Nov	2	C	30	-0.0464	0.0000	0.0000	0.3522	-0.0871	0.0000
2006	23-Nov	3	C	30	-0.3820	0.0000	0.0000	0.5311	-0.1314	0.0015
2006	23-Nov	1	T	30	-0.4778	0.0000	0.0000	0.3289	-0.0864	0.0000
2006	23-Nov	2	T	30	-0.7865	0.0000	0.0000	0.4426	-0.1163	0.0000
2006	23-Nov	3	T	30	-0.3362	0.0000	0.0000	0.4024	-0.1058	0.0017
2006	23-Nov	1	C	60	-0.1987	0.0000	0.0000	0.4206	-0.0990	0.0000
2006	23-Nov	2	C	60	-0.0684	0.0000	0.0000	0.2880	-0.0678	0.0000
2006	23-Nov	3	C	60	-0.1564	0.0009	-0.0002	0.4364	-0.1027	0.0000
2006	23-Nov	1	T	60	-0.6442	0.0000	0.0000	1.3647	-0.3643	0.0000
2006	23-Nov	2	T	60	-0.6027	0.0000	0.0000	0.5060	-0.1351	0.0000
2006	23-Nov	3	T	60	-0.2518	0.0000	0.0000	0.7318	-0.1953	0.0000
2006	23-Nov	1	C	120	-0.5701	0.0008	-0.0002	0.5758	-0.1462	0.0000
2006	23-Nov	2	C	120	-0.4479	0.0000	0.0000	0.4474	-0.1136	0.0220
2006	23-Nov	3	C	120	-0.4192	0.0000	0.0000	1.3354	-0.3391	0.0044
2006	23-Nov	1	T	120	-0.2216	0.0000	0.0000	0.4334	-0.1243	0.0004
2006	23-Nov	2	T	120	-1.1295	0.0000	0.0000	1.2012	-0.3447	0.0091
2006	23-Nov	3	T	120	-0.2318	0.0000	0.0000	1.2930	-0.3710	0.0033
2006	23-Nov	1	C	200	-0.0094	0.0000	0.0000	1.0197	-0.2526	0.0000
2006	23-Nov	2	C	200	-0.0610	0.0000	0.0000	0.5062	-0.1254	0.0047
2006	23-Nov	3	C	200	-0.0288	0.0000	0.0000	1.0276	-0.2546	0.0075
2006	23-Nov	1	T	200	-0.0026	0.0000	0.0000	1.1223	-0.2140	0.0000
2006	23-Nov	2	T	200	-0.0370	0.0000	0.0000	1.5374	-0.2932	0.0000
2006	23-Nov	3	T	200	-0.0416	0.0000	0.0000	0.4686	-0.0894	0.0083
2006	30-Nov	1	C	15	-0.6452	0.0020	-0.0006	0.4317	-0.1317	0.0000
2006	30-Nov	2	C	15	-0.1286	0.0000	0.0000	0.3423	-0.1044	0.0000
2006	30-Nov	3	C	15	-0.0395	0.0000	0.0000	0.4191	-0.1278	0.0000
2006	30-Nov	1	T	15	-0.0905	0.0000	0.0000	0.3308	-0.1048	0.0000
2006	30-Nov	2	T	15	-0.2712	0.0000	0.0000	0.4535	-0.1436	0.0000
2006	30-Nov	3	T	15	-0.1776	0.0000	0.0000	0.4070	-0.1289	0.0000
2006	30-Nov	1	C	30	-0.3994	0.0002	-0.0001	0.4352	-0.1353	0.0016
2006	30-Nov	2	C	30	-0.0493	0.0000	0.0000	0.3215	-0.1000	0.0000
2006	30-Nov	3	C	30	-0.3876	0.0000	0.0000	0.5491	-0.1707	0.0000
2006	30-Nov	1	T	30	-0.2311	0.0000	0.0000	0.3213	-0.0998	0.0000
2006	30-Nov	2	T	30	-0.7897	0.0007	-0.0002	0.4872	-0.1513	0.0005
2006	30-Nov	3	T	30	-0.3347	0.0000	0.0000	0.5445	-0.1691	0.0098
2006	30-Nov	1	C	60	-0.2104	0.0000	0.0000	0.4313	-0.1244	0.0000
2006	30-Nov	2	C	60	-0.0470	0.0000	0.0000	0.3023	-0.0872	0.0000
2006	30-Nov	3	C	60	-0.1910	0.0000	0.0000	0.5043	-0.1454	0.0000
2006	30-Nov	1	T	60	-0.6339	0.0000	0.0000	0.8939	-0.2595	0.0000
2006	30-Nov	2	T	60	-0.5964	0.0000	0.0000	0.5047	-0.1465	0.0000
2006	30-Nov	3	T	60	-0.3242	0.0000	0.0000	0.6652	-0.1931	0.0000
2006	30-Nov	1	C	120	-0.6931	0.0000	0.0000	0.7985	-0.1941	0.0010
2006	30-Nov	2	C	120	-0.3806	0.0000	0.0000	0.4937	-0.1200	0.0180
2006	30-Nov	3	C	120	-0.3374	0.0031	-0.0008	1.1236	-0.2731	0.0043
2006	30-Nov	1	T	120	-0.2030	0.0000	0.0000	0.5328	-0.1263	0.0016

year	date	rep	trt	depth	Mg2790	Mo2020	Mo2020	Na5889	Na5889	Ni2316
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml

2006	30-Nov	2 T	120	-0.9479	0.0000	0.0000	1.0504	-0.2490	0.0076
2006	30-Nov	3 T	120	-0.1847	0.0000	0.0000	0.8447	-0.2002	0.0036
2006	30-Nov	1 C	200	0.0000	0.0000	0.0000	0.5159	-0.1190	0.0000
2006	30-Nov	2 C	200	-0.0472	0.0000	0.0000	0.5124	-0.1182	0.0038
2006	30-Nov	3 C	200	-0.0224	0.0000	0.0000	1.0336	-0.2385	0.0043
2006	30-Nov	1 T	200	0.0000	0.0000	0.0000	0.8644	-0.1945	0.0000
2006	30-Nov	2 T	200	-0.0345	0.0000	0.0000	1.4222	-0.3200	0.0028
2006	30-Nov	3 T	200	-0.0452	0.0000	0.0000	0.4872	-0.1096	0.0104
2006	7-Dec	1 T	15						
2006	7-Dec	2 T	15						
2006	7-Dec	3 T	15	-0.0592	0.0039	-0.0003	0.3657	-0.0321	0.0050
2006	7-Dec	1 C	30	-0.0107	0.0000	0.0000	0.4702	-0.0080	0.0005
2006	7-Dec	2 C	30	-0.0023	0.0037	-0.0001	0.1828	-0.0031	0.0037
2006	7-Dec	3 C	30						
2006	7-Dec	1 T	30	0.0028	0.0000	0.0000	0.3664	0.0027	0.0000
2006	7-Dec	2 T	30	0.0173	0.0000	0.0000	0.5364	0.0039	0.0000
2006	7-Dec	3 T	30	0.0071	0.0024	0.0000	0.7430	0.0054	0.0657
2006	7-Dec	1 C	60	0.0054	0.0000	0.0000	0.4520	0.0035	0.0001
2006	7-Dec	2 C	60	0.0062	0.0000	0.0000	0.2725	0.0021	0.0066
2006	7-Dec	3 C	60	0.0048	0.0000	0.0000	0.5596	0.0043	0.0000
2006	7-Dec	1 T	60	-0.0392	0.0009	0.0000	0.8973	-0.0138	0.0000
2006	7-Dec	2 T	60	-0.0416	0.0000	0.0000	0.6086	-0.0094	0.0000
2006	7-Dec	3 T	60	-0.0154	0.0015	0.0000	0.7091	-0.0109	0.0003
2006	7-Dec	1 C	120	-0.1831	0.0032	-0.0002	0.7318	-0.0480	0.0037
2006	7-Dec	2 C	120	-0.1024	0.0000	0.0000	0.5020	-0.0329	0.0301
2006	7-Dec	3 C	120	-0.1018	0.0002	0.0000	1.2229	-0.0802	0.0108
2006	7-Dec	1 T	120	-0.0788	0.0018	-0.0002	0.6159	-0.0651	0.0000
2006	7-Dec	2 T	120	-0.4380	0.0000	0.0000	1.0457	-0.1106	0.0115
2006	7-Dec	3 T	120	-0.1350	0.0000	0.0000	2.0636	-0.2183	0.0027
2006	7-Dec	1 C	200	-0.0048	0.0000	0.0000	1.0559	-0.1843	0.0000
2006	7-Dec	2 C	200	-0.0370	0.0000	0.0000	0.5400	-0.0942	0.0034
2006	7-Dec	3 C	200	-0.0169	0.0000	0.0000	1.0657	-0.1860	0.0019
2006	7-Dec	1 T	200	-0.0011	0.0000	0.0000	1.1544	-0.2387	0.0000
2006	7-Dec	2 T	200	-0.0316	0.0000	0.0000	1.3996	-0.2894	0.0032
2006	7-Dec	3 T	200	-0.0426	0.0000	0.0000	0.5130	-0.1061	0.0065
2006	14-Dec	1 C	15	0.0078	0.0000	0.0000	0.2628	0.0059	0.0000
2006	14-Dec	2 C	15	0.0090	0.0033	0.0001	0.5184	0.0117	0.0055
2006	14-Dec	3 C	15	0.0028	0.0000	0.0000	0.3953	0.0089	0.0000
2006	14-Dec	1 T	15	0.0001	0.0000	0.0000	0.3843	0.0001	0.0000
2006	14-Dec	2 T	15	0.0003	0.0000	0.0000	0.5828	0.0002	0.0000
2006	14-Dec	3 T	15	0.0001	0.0025	0.0000	0.4919	0.0002	0.0000
2006	14-Dec	1 C	30	-0.0226	0.0000	0.0000	0.4291	-0.0109	0.0006
2006	14-Dec	2 C	30	-0.0039	0.0001	0.0000	0.2415	-0.0061	0.0000
2006	14-Dec	3 C	30	-0.0621	0.0052	-0.0001	2.5532	-0.0648	0.0121
2006	14-Dec	1 T	30	-0.0620	0.0000	0.0000	0.4018	-0.0374	0.0000
2006	14-Dec	2 T	30	-0.2787	0.0000	0.0000	0.5779	-0.0538	0.0000

year	date	rep	trt	depth	Mg2790	Mo2020	Mo2020	Na5889	Na5889	Ni2316
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml

2006	14-Dec	3 T	30	-0.0782	0.0000	0.0000	0.7111	-0.0663	0.0122
2006	14-Dec	1 C	60	-0.0538	0.0000	0.0000	0.3102	-0.0271	0.0000
2006	14-Dec	2 C	60	-0.0524	0.0003	0.0000	0.2526	-0.0221	0.0000
2006	14-Dec	3 C	60	-0.0532	0.0011	-0.0001	0.3720	-0.0325	0.0000
2006	14-Dec	1 T	60	-0.1885	0.0000	0.0000	0.7174	-0.0606	0.0000
2006	14-Dec	2 T	60	-0.1579	0.0000	0.0000	0.5733	-0.0484	0.0000
2006	14-Dec	3 T	60	-0.0742	0.0000	0.0000	0.6110	-0.0516	0.0000
2006	14-Dec	1 C	120	-0.1453	0.0000	0.0000	0.6205	-0.0310	0.0000
2006	14-Dec	2 C	120	-0.0849	0.0024	-0.0001	0.3719	-0.0186	0.0288
2006	14-Dec	3 C	120	-0.0822	0.0000	0.0000	1.0653	-0.0532	0.0000
2006	14-Dec	1 T	120	-0.0512	0.0000	0.0000	0.9819	-0.0600	0.0000
2006	14-Dec	2 T	120	-0.2579	0.0000	0.0000	1.0469	-0.0640	0.0103
2006	14-Dec	3 T	120	-0.0505	0.0000	0.0000	1.0776	-0.0659	0.0015
2006	14-Dec	1 C	200	-0.0041	0.0000	0.0000	0.9842	-0.0955	0.0000
2006	14-Dec	2 C	200	-0.0238	0.0005	-0.0001	0.4419	-0.0429	0.0083
2006	14-Dec	3 C	200	-0.0145	0.0000	0.0000	1.0198	-0.0989	0.0038
2006	14-Dec	1 T	200	-0.0002	0.0000	0.0000	1.1346	-0.1465	0.0000
2006	14-Dec	2 T	200	-0.0198	0.0000	0.0000	1.4387	-0.1857	0.0038
2006	14-Dec	3 T	200	-0.0252	0.0000	0.0000	0.3845	-0.0496	0.0000

year	date	rep	trt	depth	Ni2316	P_2149	P_2149	Pb2203	Pb2203	S_1820
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	21-Apr	1	C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.1165

2006	21-Apr	2 C	15	-0.0001	0.0120	-0.0009	0.0000	0.0000	0.6709
2006	21-Apr	3 C	15	0.0000	0.0000	0.0000	0.0000	0.0000	2.3762
2006	21-Apr	1 T	15	-0.0001	0.0215	-0.0015	0.0072	-0.0005	2.4959
2006	21-Apr	2 T	15	-0.0300	0.0148	-0.0011	0.0000	0.0000	0.8816
2006	21-Apr	3 T	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.3646
2006	21-Apr	1 C	30	-0.0003	0.0238	-0.0010	0.0009	0.0000	0.1046
2006	21-Apr	2 C	30	0.0000	0.0171	-0.0007	0.0000	0.0000	0.5846
2006	21-Apr	3 C	30						
2006	21-Apr	1 T	30	-0.0001	0.0126	-0.0005	0.0100	-0.0004	0.0294
2006	21-Apr	2 T	30						
2006	21-Apr	3 T	30	-0.0003	0.0271	-0.0010	0.0000	0.0000	0.2271
2006	21-Apr	1 C	60						
2006	21-Apr	2 C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.1005
2006	21-Apr	3 C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0172
2006	27-Apr	1 C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.1852
2006	27-Apr	2 C	15	-0.0055	0.1062	-0.1223	0.0005	-0.0005	0.5790
2006	27-Apr	3 C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.3214
2006	27-Apr	1 T	15	-0.0005	0.0000	0.0000	0.0000	0.0000	1.6025
2006	27-Apr	2 T	15	-0.0050	0.0000	0.0000	0.0048	-0.0055	1.3252
2006	27-Apr	3 T	15	0.0000	0.0000	0.0000	0.0007	-0.0008	0.3405
2006	27-Apr	1 C	30	-0.0003	0.0000	0.0000	0.0000	0.0000	0.0215
2006	27-Apr	2 C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.7246
2006	27-Apr	3 C	30	-0.0030	0.0000	0.0000	0.0000	0.0000	0.0592
2006	27-Apr	1 T	30	-0.0004	0.0000	0.0000	0.0000	0.0000	0.0265
2006	27-Apr	2 T	30	-0.0017	0.0000	0.0000	0.0000	0.0000	0.4015
2006	27-Apr	3 T	30	-0.0018	0.0000	0.0000	0.0000	0.0000	0.0908
2006	27-Apr	1 C	60	-0.0017	0.0004	-0.0004	0.0000	0.0000	0.0286
2006	27-Apr	2 C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0563
2006	27-Apr	3 C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0059
2006	27-Apr	1 T	60	-0.0013	0.0000	0.0000	0.0004	-0.0003	0.0306
2006	27-Apr	2 T	60	-0.0089	0.0203	-0.0163	0.0071	-0.0057	0.1036
2006	27-Apr	3 T	60	-0.0019	0.0000	0.0000	0.0000	0.0000	0.0136
2006	27-Apr	1 C	120	-0.0014	0.0000	0.0000	0.0000	0.0000	0.0271
2006	27-Apr	2 C	120	-0.0114	0.0000	0.0000	0.0000	0.0000	0.0171
2006	27-Apr	3 C	120	-0.0057	0.0281	-0.0109	0.0000	0.0000	0.0416
2006	27-Apr	1 T	120	-0.0005	0.0000	0.0000	0.0000	0.0000	0.0178
2006	27-Apr	2 T	120						
2006	27-Apr	3 T	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0480
2006	27-Apr	1 C	200	0.0000	0.0207	-0.0001	0.0000	0.0000	0.0501
2006	27-Apr	2 C	200	0.0000	0.0248	-0.0001	0.0030	0.0000	0.0172
2006	27-Apr	3 C	200	-0.0001	0.0165	-0.0001	0.0000	0.0000	0.0187
2006	27-Apr	1 T	200	0.0000	0.0235	0.0000	0.0040	0.0000	0.0637
2006	27-Apr	2 T	200						
2006	27-Apr	3 T	200	0.0000	0.0038	0.0000	0.0000	0.0000	0.0583
2006	4-May	1 C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0711
2006	4-May	2 C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.4766

year	date	rep	trt	depth	Ni2316	P_2149	P_2149	Pb2203	Pb2203	S_1820
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	4-May	3	C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0876

2006	4-May	1 T	15	-0.0003	0.0271	-0.0133	0.0000	0.0000	2.1218
2006	4-May	2 T	15	-0.0124	0.0185	-0.0091	0.0036	-0.0018	1.3137
2006	4-May	3 T	15	-0.0001	0.0000	0.0000	0.0000	0.0000	0.3979
2006	4-May	1 C	30	0.0000	0.0226	-0.0103	0.0000	0.0000	0.0705
2006	4-May	2 C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.4760
2006	4-May	3 C	30	-0.0022	0.0067	-0.0031	0.0129	-0.0059	0.0417
2006	4-May	1 T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0333
2006	4-May	2 T	30	-0.0009	0.0000	0.0000	0.0000	0.0000	0.2946
2006	4-May	3 T	30	-0.0002	0.0000	0.0000	0.0003	-0.0001	0.0617
2006	4-May	1 C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0223
2006	4-May	2 C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0703
2006	4-May	3 C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0073
2006	4-May	1 T	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0060
2006	4-May	2 T	60	-0.0172	0.0000	0.0000	0.0000	0.0000	0.0310
2006	4-May	3 T	60	-0.0008	0.0000	0.0000	0.0000	0.0000	0.0230
2006	4-May	1 C	120	-0.0021	0.0000	0.0000	0.0003	-0.0001	0.0169
2006	4-May	2 C	120	-0.0202	0.0016	-0.0007	0.0000	0.0000	0.0186
2006	4-May	3 C	120	-0.0032	0.0417	-0.0183	0.0000	0.0000	0.0924
2006	4-May	1 T	120	-0.0019	0.0000	0.0000	0.0000	0.0000	0.0060
2006	4-May	2 T	120						
2006	4-May	3 T	120	-0.0030	0.0000	0.0000	0.0121	-0.0052	0.0094
2006	4-May	1 C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0190
2006	4-May	2 C	200	-0.0006	0.0097	-0.0008	0.0000	0.0000	0.0208
2006	4-May	3 C	200	-0.0008	0.0029	-0.0002	0.0000	0.0000	0.0371
2006	4-May	1 T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0013
2006	4-May	2 T	200						
2006	4-May	3 T	200	0.0000	0.0113	0.0000	0.0000	0.0000	0.0114
2006	12-May	1 C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0859
2006	12-May	2 C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	3 C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0754
2006	12-May	1 T	15	-0.0013	0.0017	-0.0015	0.0000	0.0000	134.7283
2006	12-May	2 T	15	-0.0083	0.0257	-0.0224	0.0041	-0.0036	1.0970
2006	12-May	3 T	15	-0.0027	0.0000	0.0000	0.0000	0.0000	0.8490
2006	12-May	1 C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0312
2006	12-May	2 C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	3 C	30	-0.0009	0.0000	0.0000	0.0000	0.0000	0.0212
2006	12-May	1 T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.2242
2006	12-May	2 T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.2776
2006	12-May	3 T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0742
2006	12-May	1 C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0197
2006	12-May	2 C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0188
2006	12-May	3 C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	1 T	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0328
2006	12-May	2 T	60	-0.0106	0.0000	0.0000	0.0000	0.0000	0.0134
2006	12-May	3 T	60	-0.0005	0.0000	0.0000	0.0000	0.0000	0.0187

year	date	rep	trt	depth	Ni2316	P_2149	P_2149	Pb2203	Pb2203	S_1820
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	12-May	1	C	120	-0.0002	0.0000	0.0000	0.0000	0.0000	0.0127

2006	12-May	2	C	120						
2006	12-May	3	C	120	-0.0028	0.0000	0.0000	0.0000	0.0000	0.0012
2006	12-May	1	T	120	-0.0050	0.0000	0.0000	0.0000	0.0000	0.0160
2006	12-May	2	T	120	-0.0454	0.0067	-0.0061	0.0000	0.0000	0.0332
2006	12-May	3	T	120	-0.0014	0.0000	0.0000	0.0000	0.0000	0.0094
2006	12-May	1	C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0008
2006	12-May	2	C	200	-0.0106	0.0081	-0.0077	0.0048	-0.0046	0.0134
2006	12-May	3	C	200	-0.0073	0.0000	0.0000	0.0000	0.0000	0.0199
2006	12-May	1	T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	2	T	200	-0.0068	0.0362	-0.0189	0.0000	0.0000	0.0488
2006	12-May	3	T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0647
2006	19-May	1	C	15	-0.0036	0.0432	-0.0120	0.0568	-0.0158	0.0947
2006	19-May	2	C	15	-0.0039	0.0549	-0.0153	0.0504	-0.0140	2.5374
2006	19-May	3	C	15	-0.0036	0.0713	-0.0199	0.0624	-0.0174	0.3767
2006	19-May	1	T	15	0.0000	0.0040	-0.0011	0.0000	0.0000	15.5202
2006	19-May	2	T	15	-0.0058	0.0456	-0.0128	0.0447	-0.0126	19.6709
2006	19-May	3	T	15	-0.0034	0.0747	-0.0210	0.0563	-0.0158	0.3352
2006	19-May	1	C	30	-0.0033	0.0513	-0.0147	0.0496	-0.0142	0.0376
2006	19-May	2	C	30	-0.0026	0.1204	-0.0344	0.0019	-0.0006	0.1943
2006	19-May	3	C	30	-0.0018	0.0338	-0.0096	0.0000	0.0000	0.0443
2006	19-May	1	T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0692
2006	19-May	2	T	30	-0.0049	0.0553	-0.0163	0.0567	-0.0167	0.3024
2006	19-May	3	T	30	-0.0111	0.0204	-0.0060	0.0000	0.0000	0.0676
2006	19-May	1	C	60	-0.0025	0.0469	-0.0144	0.0269	-0.0083	0.0749
2006	19-May	2	C	60	-0.0038	0.0601	-0.0185	0.0633	-0.0195	0.0576
2006	19-May	3	C	60	-0.0038	0.0514	-0.0158	0.0563	-0.0173	0.0320
2006	19-May	1	T	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0209
2006	19-May	2	T	60	-0.0065	0.0580	-0.0192	0.0550	-0.0182	0.0342
2006	19-May	3	T	60	-0.0047	0.0648	-0.0214	0.0573	-0.0189	0.0343
2006	19-May	1	C	120	-0.0048	0.0607	-0.0218	0.0547	-0.0196	0.0303
2006	19-May	2	C	120	-0.0177	0.0569	-0.0204	0.0563	-0.0202	0.0387
2006	19-May	3	C	120	-0.0034	0.0214	-0.0077	0.0000	0.0000	0.0192
2006	19-May	1	T	120	-0.0051	0.0443	-0.0170	0.0438	-0.0169	0.0436
2006	19-May	2	T	120	-0.0168	0.0388	-0.0149	0.0315	-0.0121	0.0705
2006	19-May	3	T	120	-0.0062	0.0510	-0.0196	0.0686	-0.0264	0.0338
2006	19-May	1	C	200	-0.0052	0.0560	-0.0213	0.0732	-0.0278	0.0412
2006	19-May	2	C	200	-0.0069	0.0705	-0.0268	0.0560	-0.0213	0.0360
2006	19-May	3	C	200	-0.0072	0.0492	-0.0187	0.0578	-0.0219	0.0295
2006	19-May	1	T	200	-0.0037	0.0431	-0.0180	0.0314	-0.0131	0.0147
2006	19-May	2	T	200	-0.0072	0.0611	-0.0256	0.0537	-0.0225	0.0253
2006	19-May	3	T	200	-0.0049	0.0015	-0.0006	0.0017	-0.0007	0.0181
2006	27-May	1	C	15	-0.0093	0.0574	-0.0393	0.0420	-0.0288	1.1264
2006	27-May	2	C	15	-0.0095	0.0531	-0.0364	0.0583	-0.0400	0.0887
2006	27-May	3	C	15	-0.0093	0.0617	-0.0423	0.0566	-0.0388	0.0988
2006	27-May	1	T	15						
2006	27-May	2	T	15	-0.0172	0.0602	-0.0418	0.0643	-0.0446	21.6522

year	date	rep	trt	depth	Ni2316	P_2149	P_2149	Pb2203	Pb2203	S_1820
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	27-May	3	T	15	-0.0310	0.0464	-0.0322	0.0639	-0.0443	0.0467

2006	27-May	1	C	30	-0.0079	0.0434	-0.0291	0.0528	-0.0354	0.1818
2006	27-May	2	C	30	-0.0042	0.0154	-0.0104	0.0130	-0.0087	0.0134
2006	27-May	3	C	30	-0.0078	0.0483	-0.0324	0.0596	-0.0399	0.0562
2006	27-May	1	T	30	-0.0091	0.0515	-0.0347	0.0538	-0.0363	0.0436
2006	27-May	2	T	30	-0.0103	0.0485	-0.0327	0.0571	-0.0385	0.2632
2006	27-May	3	T	30	-0.0127	0.0559	-0.0377	0.0639	-0.0431	0.0371
2006	27-May	1	C	60	-0.0079	0.0554	-0.0350	0.0569	-0.0360	0.0533
2006	27-May	2	C	60	-0.0077	0.0679	-0.0430	0.0529	-0.0334	0.0301
2006	27-May	3	C	60	-0.0037	0.0387	-0.0245	0.0408	-0.0258	0.0597
2006	27-May	1	T	60	-0.0096	0.0704	-0.0438	0.0723	-0.0449	0.0421
2006	27-May	2	T	60	-0.0146	0.0535	-0.0333	0.0554	-0.0344	0.0616
2006	27-May	3	T	60	-0.0094	0.0405	-0.0252	0.0664	-0.0413	0.0401
2006	27-May	1	C	120	-0.0084	0.0499	-0.0273	0.0469	-0.0256	0.0333
2006	27-May	2	C	120	-0.0315	0.0477	-0.0261	0.0460	-0.0252	0.0304
2006	27-May	3	C	120	-0.0089	0.0504	-0.0276	0.0651	-0.0356	0.0334
2006	27-May	1	T	120	-0.0077	0.0531	-0.0265	0.0466	-0.0232	0.0630
2006	27-May	2	T	120	-0.0075	0.0577	-0.0287	0.0609	-0.0303	0.6840
2006	27-May	3	T	120	-0.0082	0.0562	-0.0280	0.0502	-0.0250	0.0233
2006	27-May	1	C	200	-0.0046	0.0533	-0.0244	0.0621	-0.0284	0.0419
2006	27-May	2	C	200	-0.0089	0.0504	-0.0230	0.0564	-0.0258	0.0293
2006	27-May	3	C	200	-0.0092	0.0484	-0.0222	0.0679	-0.0311	0.0308
2006	27-May	1	T	200	-0.0023	0.0595	-0.0234	0.0361	-0.0142	0.1207
2006	27-May	2	T	200	-0.0117	0.0556	-0.0219	0.0619	-0.0244	0.0992
2006	27-May	3	T	200	-0.0065	0.0710	-0.0280	0.0510	-0.0201	0.0714
2006	1-Jun	1	C	15	-0.0071	0.0559	-0.0342	0.0705	-0.0430	0.0802
2006	1-Jun	2	C	15	-0.0034	0.0162	-0.0099	0.0000	0.0000	0.1854
2006	1-Jun	3	C	15	-0.0068	0.0520	-0.0317	0.0632	-0.0386	0.0409
2006	1-Jun	1	T	15	-0.0043	0.0146	-0.0088	0.0052	-0.0031	21.4955
2006	1-Jun	2	T	15	-0.0039	0.0265	-0.0160	0.0016	-0.0010	2.7031
2006	1-Jun	3	T	15	-0.0069	0.0429	-0.0259	0.0533	-0.0322	0.7860
2006	1-Jun	1	C	30	-0.0050	0.0147	-0.0087	0.0000	0.0000	0.0382
2006	1-Jun	2	C	30	-0.0074	0.0455	-0.0268	0.0587	-0.0346	0.0246
2006	1-Jun	3	C	30	-0.0086	0.0536	-0.0316	0.0760	-0.0448	0.0364
2006	1-Jun	1	T	30	-0.0075	0.0415	-0.0240	0.0582	-0.0337	0.0591
2006	1-Jun	2	T	30	-0.0093	0.0530	-0.0306	0.0545	-0.0315	0.3117
2006	1-Jun	3	T	30	-0.0068	0.0607	-0.0351	0.0422	-0.0244	0.1289
2006	1-Jun	1	C	60	-0.0061	0.0473	-0.0270	0.0661	-0.0378	0.0323
2006	1-Jun	2	C	60	-0.0256	0.0134	-0.0077	0.0005	-0.0003	0.0000
2006	1-Jun	3	C	60	-0.0062	0.0542	-0.0310	0.0566	-0.0324	0.0723
2006	1-Jun	1	T	60	-0.0076	0.0443	-0.0257	0.0700	-0.0405	0.0386
2006	1-Jun	2	T	60	-0.0097	0.0456	-0.0264	0.0714	-0.0414	0.0442
2006	1-Jun	3	T	60	-0.0058	0.0459	-0.0266	0.0621	-0.0360	0.0350
2006	1-Jun	1	C	120	-0.0078	0.0596	-0.0359	0.0583	-0.0351	0.0326
2006	1-Jun	2	C	120	-0.0060	0.0117	-0.0070	0.0040	-0.0024	0.0135

year	date	rep	trt	depth	Ni2316	P_2149	P_2149	Pb2203	Pb2203	S_1820
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	1-Jun	3	C	120	-0.0103	0.0377	-0.0227	0.0586	-0.0353	0.0373

2006	1-Jun	1 T	120	-0.0091	0.0392	-0.0244	0.0671	-0.0417	0.0310
2006	1-Jun	2 T	120	-0.0251	0.0486	-0.0302	0.0576	-0.0358	0.0327
2006	1-Jun	3 T	120	-0.0087	0.0566	-0.0352	0.0623	-0.0387	0.0415
2006	1-Jun	1 C	200	-0.0037	0.0113	-0.0073	0.0000	0.0000	0.2865
2006	1-Jun	2 C	200	-0.0072	0.0493	-0.0318	0.0563	-0.0364	0.0911
2006	1-Jun	3 C	200	-0.0146	0.0301	-0.0195	0.0550	-0.0355	0.0324
2006	1-Jun	1 T	200	-0.0070	0.0438	-0.0281	0.0588	-0.0378	0.0270
2006	1-Jun	2 T	200	-0.0130	0.0704	-0.0453	0.0684	-0.0439	0.0355
2006	1-Jun	3 T	200	-0.0120	0.0539	-0.0346	0.0521	-0.0335	0.0584
2006	9-Jun	1 C	15	-0.0063	0.0404	-0.0239	0.0466	-0.0276	0.0639
2006	9-Jun	2 C	15	-0.0028	0.0300	-0.0178	0.0000	0.0000	0.2582
2006	9-Jun	3 C	15	-0.0775	0.0269	-0.0159	0.0000	0.0000	0.0966
2006	9-Jun	1 T	15	-0.0075	0.0292	-0.0175	0.0069	-0.0041	13.6997
2006	9-Jun	2 T	15	-0.0093	0.0632	-0.0379	0.0537	-0.0322	11.7683
2006	9-Jun	3 T	15	-0.0104	0.0920	-0.0552	0.0770	-0.0461	0.4240
2006	9-Jun	1 C	30	-0.0101	0.0538	-0.0317	0.0649	-0.0383	0.0531
2006	9-Jun	2 C	30	-0.0023	0.1192	-0.0702	0.0035	-0.0021	0.2523
2006	9-Jun	3 C	30	-0.0045	0.0052	-0.0031	0.0106	-0.0063	0.0205
2006	9-Jun	1 T	30	-0.0065	0.0508	-0.0299	0.0614	-0.0361	0.0568
2006	9-Jun	2 T	30	-0.0113	0.0634	-0.0373	0.0796	-0.0468	0.3154
2006	9-Jun	3 T	30	-0.0126	0.0576	-0.0339	0.0805	-0.0473	0.0952
2006	9-Jun	1 C	60	-0.0060	0.0423	-0.0239	0.0547	-0.0309	0.0364
2006	9-Jun	2 C	60	-0.0017	0.0232	-0.0131	0.0075	-0.0042	0.0052
2006	9-Jun	3 C	60	-0.0042	0.0206	-0.0117	0.0114	-0.0065	0.0000
2006	9-Jun	1 T	60	-0.0062	0.0510	-0.0277	0.0641	-0.0348	0.0449
2006	9-Jun	2 T	60	-0.0070	0.0269	-0.0146	0.0447	-0.0243	0.0325
2006	9-Jun	3 T	60	-0.0065	0.0462	-0.0251	0.0593	-0.0322	0.0172
2006	9-Jun	1 C	120	-0.0067	0.0394	-0.0195	0.0656	-0.0325	0.0353
2006	9-Jun	2 C	120	-0.0227	0.0188	-0.0093	0.0170	-0.0084	0.0000
2006	9-Jun	3 C	120	-0.0055	0.0127	-0.0063	0.0038	-0.0019	0.0085
2006	9-Jun	1 T	120	-0.0077	0.0472	-0.0221	0.0544	-0.0255	0.0229
2006	9-Jun	2 T	120	-0.0182	0.0515	-0.0241	0.0596	-0.0279	0.0459
2006	9-Jun	3 T	120	-0.0070	0.0384	-0.0180	0.0507	-0.0237	0.0219
2006	9-Jun	1 C	200	0.0000	0.0010	-0.0004	0.0000	0.0000	0.0048
2006	9-Jun	2 C	200	-0.0048	0.0202	-0.0090	0.0231	-0.0103	0.0050
2006	9-Jun	3 C	200	-0.0067	0.0267	-0.0120	0.0116	-0.0052	0.0024
2006	9-Jun	1 T	200	-0.0055	0.0426	-0.0210	0.0536	-0.0265	0.0248
2006	9-Jun	2 T	200	-0.0084	0.0563	-0.0278	0.0576	-0.0284	0.0411
2006	9-Jun	3 T	200	-0.0099	0.0417	-0.0206	0.0564	-0.0278	0.0320
2006	15-Jun	1 C	15	0.0000	0.0044	-0.0020	0.0000	0.0000	0.0706
2006	15-Jun	2 C	15	-0.0021	0.0110	-0.0049	0.0000	0.0000	0.3653
2006	15-Jun	3 C	15	-0.0333	0.0158	-0.0071	0.0000	0.0000	0.0745
2006	15-Jun	1 T	15	-0.0046	0.0506	-0.0238	0.0000	0.0000	10.9479
2006	15-Jun	2 T	15	-0.0056	0.0197	-0.0093	0.0204	-0.0096	7.3914
2006	15-Jun	3 T	15	-0.0025	0.0198	-0.0093	0.0163	-0.0077	0.2860

year	date	rep	trt	depth	Ni2316	P_2149	P_2149	Pb2203	Pb2203	S_1820
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	15-Jun	1 C		30	-0.0021	0.0270	-0.0123	0.0049	-0.0023	0.0185

2006	15-Jun	2 C	30	-0.0028	0.0106	-0.0048	0.0005	-0.0002	0.1353
2006	15-Jun	3 C	30	-0.0027	0.0160	-0.0073	0.0118	-0.0054	0.0107
2006	15-Jun	1 T	30	-0.0023	0.0185	-0.0087	0.0092	-0.0043	0.0093
2006	15-Jun	2 T	30	-0.0038	0.0179	-0.0084	0.0166	-0.0078	0.3710
2006	15-Jun	3 T	30	-0.0063	0.0261	-0.0122	0.0071	-0.0033	0.0810
2006	15-Jun	1 C	60	-0.0040	0.0135	-0.0062	0.0080	-0.0037	0.0054
2006	15-Jun	2 C	60	-0.0025	0.0225	-0.0103	0.0000	0.0000	0.0054
2006	15-Jun	3 C	60	-0.0019	0.0215	-0.0099	0.0089	-0.0041	0.0000
2006	15-Jun	1 T	60	-0.0009	0.0021	-0.0010	0.0000	0.0000	0.0353
2006	15-Jun	2 T	60	-0.0055	0.0229	-0.0108	0.0288	-0.0137	0.0178
2006	15-Jun	3 T	60	-0.0014	0.0202	-0.0096	0.0068	-0.0032	0.0000
2006	15-Jun	1 C	120	-0.0035	0.0061	-0.0028	0.0022	-0.0010	0.0055
2006	15-Jun	2 C	120	-0.0222	0.0248	-0.0115	0.0114	-0.0053	0.0010
2006	15-Jun	3 C	120	-0.0054	0.0125	-0.0058	0.0103	-0.0048	0.0065
2006	15-Jun	1 T	120	-0.0041	0.0241	-0.0119	0.0154	-0.0076	0.0045
2006	15-Jun	2 T	120	-0.0147	0.0108	-0.0054	0.0041	-0.0020	0.0163
2006	15-Jun	3 T	120	-0.0069	0.0390	-0.0193	0.0249	-0.0123	0.0081
2006	15-Jun	1 C	200	-0.0027	0.0131	-0.0064	0.0000	0.0000	0.0083
2006	15-Jun	2 C	200	-0.0053	0.0338	-0.0165	0.0101	-0.0049	0.0126
2006	15-Jun	3 C	200	-0.0061	0.0181	-0.0088	0.0000	0.0000	0.0292
2006	15-Jun	1 T	200	0.0000	0.0111	-0.0051	0.0000	0.0000	0.0000
2006	15-Jun	2 T	200	-0.0056	0.0266	-0.0122	0.0033	-0.0015	0.0037
2006	15-Jun	3 T	200	-0.0037	0.0276	-0.0126	0.0056	-0.0026	0.0000
2006	22-Jun	1 C	15	-0.0024	0.0269	-0.0118	0.0022	-0.0009	0.2073
2006	22-Jun	2 C	15	-0.0023	0.0190	-0.0083	0.0220	-0.0096	0.5053
2006	22-Jun	3 C	15	-0.0158	0.0125	-0.0055	0.0138	-0.0061	0.0851
2006	22-Jun	1 T	15	-0.0036	0.0297	-0.0132	0.0000	0.0000	3.6771
2006	22-Jun	2 T	15	-0.0023	0.0063	-0.0028	0.0000	0.0000	5.1931
2006	22-Jun	3 T	15	-0.0020	0.0135	-0.0060	0.0026	-0.0012	0.3101
2006	22-Jun	1 C	30	-0.0024	0.0208	-0.0083	0.0108	-0.0043	0.0073
2006	22-Jun	2 C	30	-0.0013	0.0153	-0.0061	0.0059	-0.0024	0.1699
2006	22-Jun	3 C	30	-0.0024	0.0197	-0.0079	0.0065	-0.0026	0.0162
2006	22-Jun	1 T	30	-0.0016	0.0057	-0.0023	0.0011	-0.0004	0.0307
2006	22-Jun	2 T	30	-0.0028	0.0185	-0.0075	0.0026	-0.0011	0.3892
2006	22-Jun	3 T	30	-0.0059	0.0253	-0.0102	0.0061	-0.0024	0.0666
2006	22-Jun	1 C	60	-0.0007	0.0000	0.0000	0.0189	-0.0067	0.0096
2006	22-Jun	2 C	60	-0.0011	0.0638	-0.0227	0.0136	-0.0048	0.0877
2006	22-Jun	3 C	60	-0.0012	0.0160	-0.0057	0.0100	-0.0036	0.0000
2006	22-Jun	1 T	60	-0.0017	0.0241	-0.0087	0.0044	-0.0016	0.0227
2006	22-Jun	2 T	60	-0.0054	0.0180	-0.0065	0.0177	-0.0064	0.0110
2006	22-Jun	3 T	60	-0.0019	0.0417	-0.0151	0.0140	-0.0050	0.0612
2006	22-Jun	1 C	120	-0.0033	0.0167	-0.0057	0.0174	-0.0059	0.0030
2006	22-Jun	2 C	120	-0.0147	0.0148	-0.0050	0.0057	-0.0019	0.0074
2006	22-Jun	3 C	120	-0.0034	0.0142	-0.0048	0.0139	-0.0047	0.0039
2006	22-Jun	1 T	120	-0.0030	0.0289	-0.0107	0.0089	-0.0033	0.0106

year	date	rep	trt	depth	Ni2316	P_2149	P_2149	Pb2203	Pb2203	S_1820
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	22-Jun	2	T	120	-0.0111	0.0125	-0.0046	0.0079	-0.0029	0.0066

2006	22-Jun	3 T	120	-0.0030	0.0258	-0.0096	0.0069	-0.0026	0.0000
2006	22-Jun	1 C	200	-0.0012	0.0185	-0.0075	0.0083	-0.0033	0.0045
2006	22-Jun	2 C	200	-0.0039	0.0068	-0.0027	0.0172	-0.0070	0.0031
2006	22-Jun	3 C	200	-0.0060	0.0245	-0.0099	0.0247	-0.0100	0.0082
2006	22-Jun	1 T	200	-0.0009	0.0023	-0.0011	0.0000	0.0000	0.0000
2006	22-Jun	2 T	200	-0.0049	0.0087	-0.0041	0.0078	-0.0037	0.0066
2006	22-Jun	3 T	200	-0.0041	0.0005	-0.0002	0.0047	-0.0022	0.0082
2006	29-Jun	1 C	15	-0.0018	0.0000	0.0000	0.0061	-0.0054	0.5792
2006	29-Jun	2 C	15	-0.0050	0.0092	-0.0082	0.0104	-0.0092	1.0753
2006	29-Jun	3 C	15	-0.2166	0.0000	0.0000	0.0165	-0.0146	0.1563
2006	29-Jun	1 T	15	-0.0012	0.0036	-0.0033	0.0076	-0.0069	3.1521
2006	29-Jun	2 T	15	-0.0127	0.0160	-0.0146	0.0000	0.0000	2.0479
2006	29-Jun	3 T	15	-0.0032	0.0117	-0.0107	0.0068	-0.0062	0.9050
2006	29-Jun	1 C	30	-0.0038	0.0366	-0.0328	0.0122	-0.0109	0.0434
2006	29-Jun	2 C	30	-0.0065	0.0271	-0.0243	0.0090	-0.0080	0.2984
2006	29-Jun	3 C	30	-0.0039	0.0079	-0.0071	0.0037	-0.0033	0.0090
2006	29-Jun	1 T	30	-0.0036	0.0031	-0.0029	0.0115	-0.0107	0.0163
2006	29-Jun	2 T	30	-0.0086	0.0141	-0.0131	0.0167	-0.0155	0.2980
2006	29-Jun	3 T	30	-0.0109	0.0241	-0.0224	0.0108	-0.0100	0.0734
2006	29-Jun	1 C	60	-0.0039	0.0287	-0.0259	0.0132	-0.0119	0.0202
2006	29-Jun	2 C	60	-0.0034	0.0000	0.0000	0.0000	0.0000	0.0137
2006	29-Jun	3 C	60	-0.0034	0.0127	-0.0115	0.0094	-0.0085	0.0000
2006	29-Jun	1 T	60	-0.0050	0.0103	-0.0094	0.0104	-0.0095	0.0131
2006	29-Jun	2 T	60	-0.0105	0.0182	-0.0166	0.0233	-0.0213	0.0301
2006	29-Jun	3 T	60	-0.0061	0.0453	-0.0414	0.0281	-0.0256	0.0164
2006	29-Jun	1 C	120	-0.0048	0.0000	0.0000	0.0097	-0.0084	0.0000
2006	29-Jun	2 C	120	-0.0322	0.0081	-0.0070	0.0000	0.0000	0.0070
2006	29-Jun	3 C	120	-0.0025	0.0000	0.0000	0.0000	0.0000	0.0000
2006	29-Jun	1 T	120	-0.0010	0.0000	0.0000	0.0000	0.0000	0.0379
2006	29-Jun	2 T	120	-0.0206	0.0011	-0.0009	0.0265	-0.0217	0.0000
2006	29-Jun	3 T	120	-0.0083	0.0052	-0.0043	0.0126	-0.0104	0.0037
2006	29-Jun	1 C	200	-0.0048	0.0168	-0.0132	0.0239	-0.0188	0.0071
2006	29-Jun	2 C	200	-0.0079	0.0022	-0.0018	0.0108	-0.0085	0.0078
2006	29-Jun	3 C	200	-0.0102	0.0471	-0.0370	0.0000	0.0000	0.0585
2006	29-Jun	1 T	200	-0.0003	0.0000	0.0000	0.0000	0.0000	0.0040
2006	29-Jun	2 T	200	-0.0053	0.0031	-0.0020	0.0082	-0.0054	0.0173
2006	29-Jun	3 T	200	-0.0065	0.0231	-0.0151	0.0030	-0.0020	0.0257
2006	5-Jul	1 C	15	0.0000	0.0841	-0.0491	0.0000	0.0000	1.0529
2006	5-Jul	2 C	15	0.0000	0.0000	0.0000	0.0000	0.0000	1.1737
2006	5-Jul	3 C	15	-0.0484	0.0000	0.0000	0.0000	0.0000	0.1971
2006	5-Jul	1 T	15	-0.0020	0.0040	-0.0024	0.0000	0.0000	4.3067
2006	5-Jul	2 T	15	-0.0051	0.0102	-0.0062	0.0000	0.0000	4.0671
2006	5-Jul	3 T	15	0.0000	0.0000	0.0000	0.0000	0.0000	2.2241
2006	5-Jul	1 C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0101
2006	5-Jul	2 C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.5867

year	date	rep	trt	depth	Ni2316	P_2149	P_2149	Pb2203	Pb2203	S_1820
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	5-Jul	3 C		30	0.0000	0.0152	-0.0086	0.0000	0.0000	0.0817

2006	5-Jul	1 T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0569
2006	5-Jul	2 T	30	-0.0006	0.0000	0.0000	0.0000	0.0000	0.3113
2006	5-Jul	3 T	30	-0.0016	0.0000	0.0000	0.0000	0.0000	0.1460
2006	5-Jul	1 C	60	-0.0001	0.0000	0.0000	0.0000	0.0000	0.0021
2006	5-Jul	2 C	60	0.0000	0.0026	-0.0014	0.0000	0.0000	0.0163
2006	5-Jul	3 C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	5-Jul	1 T	60	-0.0036	0.0150	-0.0081	0.0000	0.0000	0.0223
2006	5-Jul	2 T	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.1050
2006	5-Jul	3 T	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	5-Jul	1 C	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0017
2006	5-Jul	2 C	120	-0.0085	0.0127	-0.0061	0.0000	0.0000	0.0084
2006	5-Jul	3 C	120	-0.0064	0.1355	-0.0647	0.0064	-0.0030	0.0625
2006	5-Jul	1 T	120	-0.0051	0.0149	-0.0072	0.0000	0.0000	0.0000
2006	5-Jul	2 T	120	-0.0113	0.0014	-0.0007	0.0000	0.0000	0.0000
2006	5-Jul	3 T	120	-0.0006	0.0000	0.0000	0.0000	0.0000	0.0000
2006	5-Jul	1 C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	5-Jul	2 C	200	-0.0010	0.0000	0.0000	0.0000	0.0000	0.0000
2006	5-Jul	3 C	200	-0.0031	0.0000	0.0000	0.0000	0.0000	0.0061
2006	5-Jul	1 T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	5-Jul	2 T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	5-Jul	3 T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0259
2006	13-Jul	1 C	15						
2006	13-Jul	2 C	15	0.0000	0.0000	0.0000	0.0000	0.0000	1.9958
2006	13-Jul	3 C	15	-0.1113	0.0000	0.0000	0.0000	0.0000	0.3591
2006	13-Jul	1 T	15	-0.0037	0.0236	-0.0289	0.0000	0.0000	3.2352
2006	13-Jul	2 T	15	0.0000	0.0000	0.0000	0.0000	0.0000	4.9086
2006	13-Jul	3 T	15	0.0000	0.0851	-0.1044	0.0000	0.0000	1.8870
2006	13-Jul	1 C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0151
2006	13-Jul	2 C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.6318
2006	13-Jul	3 C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0131
2006	13-Jul	1 T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0395
2006	13-Jul	2 T	30	-0.0014	0.0000	0.0000	0.0000	0.0000	0.6799
2006	13-Jul	3 T	30	0.0000	0.0001	-0.0001	0.0000	0.0000	0.0702
2006	13-Jul	1 C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	13-Jul	2 C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0157
2006	13-Jul	3 C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	13-Jul	1 T	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0105
2006	13-Jul	2 T	60	-0.0051	0.0000	0.0000	0.0000	0.0000	0.0207
2006	13-Jul	3 T	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0029
2006	13-Jul	1 C	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	13-Jul	2 C	120	-0.0023	0.0264	-0.0277	0.0000	0.0000	0.0750
2006	13-Jul	3 C	120	-0.0102	0.0162	-0.0170	0.0000	0.0000	0.0126
2006	13-Jul	1 T	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	13-Jul	2 T	120	-0.0157	0.0000	0.0000	0.0000	0.0000	0.0000
2006	13-Jul	3 T	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

year	date	rep	trt	depth	Ni2316	P_2149	P_2149	Pb2203	Pb2203	S_1820
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	13-Jul	1 C		200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

2006	13-Jul	2	C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0036
2006	13-Jul	3	C	200	-0.0063	0.0000	0.0000	0.0000	0.0000	0.0000
2006	13-Jul	1	T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	13-Jul	2	T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	13-Jul	3	T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	20-Jul	1	C	15	0.0000	0.0000	0.0000	0.0000	0.0000	1.1127
2006	20-Jul	2	C	15						
2006	20-Jul	3	C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.3904
2006	20-Jul	1	T	15	-0.0014	0.0118	-0.0049	0.0000	0.0000	3.8354
2006	20-Jul	2	T	15	0.0000	0.0000	0.0000	0.0000	0.0000	3.3398
2006	20-Jul	3	T	15	0.0000	0.0000	0.0000	0.0000	0.0000	1.1991
2006	20-Jul	1	C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	20-Jul	2	C	30	-0.0018	0.0139	-0.0057	0.0000	0.0000	0.4361
2006	20-Jul	3	C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0224
2006	20-Jul	1	T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0225
2006	20-Jul	2	T	30	0.0000	0.0000	0.0000	0.0000	0.0000	1.2008
2006	20-Jul	3	T	30	-0.0028	0.0199	-0.0084	0.0000	0.0000	0.0693
2006	20-Jul	1	C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	20-Jul	2	C	60	0.0000	0.0270	-0.0114	0.0000	0.0000	0.1060
2006	20-Jul	3	C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	20-Jul	1	T	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	20-Jul	2	T	60	0.0000	0.0571	-0.0260	0.0000	0.0000	0.1200
2006	20-Jul	3	T	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	20-Jul	1	C	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	20-Jul	2	C	120	-0.0256	0.0000	0.0000	0.0000	0.0000	0.0000
2006	20-Jul	3	C	120	-0.0046	0.0000	0.0000	0.0000	0.0000	0.0016
2006	20-Jul	1	T	120	-0.0009	0.0000	0.0000	0.0000	0.0000	0.0000
2006	20-Jul	2	T	120	-0.0066	0.0000	0.0000	0.0000	0.0000	0.0063
2006	20-Jul	3	T	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	20-Jul	1	C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	20-Jul	2	C	200	-0.0013	0.0000	0.0000	0.0000	0.0000	0.0000
2006	20-Jul	3	C	200	-0.0038	0.0000	0.0000	0.0000	0.0000	0.0000
2006	20-Jul	1	T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	20-Jul	2	T	200	-0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
2006	20-Jul	3	T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	26-Jul	1	C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.9787
2006	26-Jul	2	C	15						
2006	26-Jul	3	C	15	0.0000	0.0157	-0.0123	0.0000	0.0000	0.3845
2006	26-Jul	1	T	15	-0.0039	0.0871	-0.0674	0.0000	0.0000	3.2775
2006	26-Jul	2	T	15	-0.0040	0.0121	-0.0093	0.0000	0.0000	2.3972
2006	26-Jul	3	T	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.9114
2006	26-Jul	1	C	30	-0.0007	0.0102	-0.0074	0.0000	0.0000	0.0122
2006	26-Jul	2	C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.4232
2006	26-Jul	3	C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	26-Jul	1	T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0792

year	date	rep	trt	depth	Ni2316	P_2149	P_2149	Pb2203	Pb2203	S_1820
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	26-Jul	2	T	30	0.0000	0.0000	0.0000	0.0000	0.0000	1.1762

2006	26-Jul	3 T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0458
2006	26-Jul	1 C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	26-Jul	2 C	60	0.0000	0.0329	-0.0211	0.0000	0.0000	0.1137
2006	26-Jul	3 C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	26-Jul	1 T	60	0.0000	0.0011	-0.0007	0.0000	0.0000	0.0065
2006	26-Jul	2 T	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0432
2006	26-Jul	3 T	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	26-Jul	1 C	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	26-Jul	2 C	120	-0.0187	0.0000	0.0000	0.0000	0.0000	0.0000
2006	26-Jul	3 C	120	-0.0023	0.0000	0.0000	0.0000	0.0000	0.0000
2006	26-Jul	1 T	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	26-Jul	2 T	120	-0.0049	0.0000	0.0000	0.0000	0.0000	0.0000
2006	26-Jul	3 T	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	26-Jul	1 C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	26-Jul	2 C	200	-0.0023	0.0000	0.0000	0.0000	0.0000	0.0000
2006	26-Jul	3 C	200	-0.0033	0.0000	0.0000	0.0000	0.0000	0.0000
2006	26-Jul	1 T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	26-Jul	2 T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	26-Jul	3 T	200	-0.0006	0.0132	-0.0042	0.0000	0.0000	0.0057
2006	3-Aug	1 C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.9868
2006	3-Aug	2 C	15	-0.0007	0.1050	-0.0156	0.0000	0.0000	1.0249
2006	3-Aug	3 C	15	-0.0004	0.0093	-0.0014	0.0000	0.0000	0.3667
2006	3-Aug	1 T	15	-0.0008	0.0174	-0.0027	0.0000	0.0000	2.7424
2006	3-Aug	2 T	15	0.0000	0.0000	0.0000	0.0000	0.0000	2.2010
2006	3-Aug	3 T	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.8271
2006	3-Aug	1 C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	3-Aug	2 C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.4179
2006	3-Aug	3 C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0058
2006	3-Aug	1 T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0697
2006	3-Aug	2 T	30	0.0000	0.0038	-0.0006	0.0000	0.0000	0.7933
2006	3-Aug	3 T	30	-0.0004	0.0044	-0.0007	0.0000	0.0000	0.0577
2006	3-Aug	1 C	60	-0.0002	0.0000	0.0000	0.0000	0.0000	0.0000
2006	3-Aug	2 C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0093
2006	3-Aug	3 C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	3-Aug	1 T	60	-0.0008	0.0093	-0.0017	0.0000	0.0000	0.0000
2006	3-Aug	2 T	60	-0.0008	0.0000	0.0000	0.0000	0.0000	0.0000
2006	3-Aug	3 T	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	3-Aug	1 C	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	3-Aug	2 C	120	-0.0090	0.0000	0.0000	0.0000	0.0000	0.0000
2006	3-Aug	3 C	120	-0.0021	0.0175	-0.0039	0.0021	-0.0005	0.0174
2006	3-Aug	1 T	120	-0.0002	0.0000	0.0000	0.0000	0.0000	0.0000
2006	3-Aug	2 T	120	-0.0040	0.0000	0.0000	0.0000	0.0000	0.0000
2006	3-Aug	3 T	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	3-Aug	1 C	200	0.0000	0.0380	-0.0156	0.0000	0.0000	0.0645
2006	3-Aug	2 C	200	-0.0001	0.0000	0.0000	0.0000	0.0000	0.0000

year	date	rep	trt	depth	Ni2316	P_2149	P_2149	Pb2203	Pb2203	S_1820
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	3-Aug	3 C		200	-0.0033	0.0000	0.0000	0.0000	0.0000	0.0000

2006	3-Aug	1 T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	3-Aug	2 T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	3-Aug	3 T	200	-0.0013	0.0000	0.0000	0.0000	0.0000	0.0000
2006	10-Aug	1 C	15	0.0000	0.0217	-0.0038	0.0000	0.0000	1.0863
2006	10-Aug	2 C	15	0.0000	0.0000	0.0000	0.0000	0.0000	2.7768
2006	10-Aug	3 C	15	-0.0012	0.0809	-0.0141	0.0259	-0.0045	0.7668
2006	10-Aug	1 T	15	0.0000	0.0000	0.0000	0.0000	0.0000	2.1029
2006	10-Aug	2 T	15	0.0000	0.0000	0.0000	0.0000	0.0000	3.7160
2006	10-Aug	3 T	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.7874
2006	10-Aug	1 C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0152
2006	10-Aug	2 C	30	0.0000	0.0093	-0.0014	0.0000	0.0000	0.4692
2006	10-Aug	3 C	30	-0.0006	0.0116	-0.0018	0.0008	-0.0001	0.0068
2006	10-Aug	1 T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0496
2006	10-Aug	2 T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.5813
2006	10-Aug	3 T	30	-0.0348	0.0000	0.0000	0.0000	0.0000	0.2197
2006	10-Aug	1 C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	10-Aug	2 C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0317
2006	10-Aug	3 C	60	-0.0006	0.0347	-0.0037	0.0302	-0.0032	0.0061
2006	10-Aug	1 T	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	10-Aug	2 T	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	10-Aug	3 T	60	-0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
2006	10-Aug	1 C	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	10-Aug	2 C	120	-0.0031	0.0414	-0.0029	0.0089	-0.0006	0.0653
2006	10-Aug	3 C	120	-0.0010	0.0339	-0.0023	0.0269	-0.0019	0.0173
2006	10-Aug	1 T	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0534
2006	10-Aug	2 T	120	-0.0011	0.0000	0.0000	0.0000	0.0000	0.0000
2006	10-Aug	3 T	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	10-Aug	1 C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	10-Aug	2 C	200	-0.0014	0.0310	-0.0044	0.0278	-0.0039	0.0104
2006	10-Aug	3 C	200	-0.0017	0.0774	-0.0109	0.0191	-0.0027	0.0951
2006	10-Aug	1 T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	10-Aug	2 T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	10-Aug	3 T	200	-0.0007	0.0000	0.0000	0.0000	0.0000	0.0000
2006	17-Aug	1 C	15	-0.0062	0.0240	-0.0192	0.0218	-0.0174	0.8788
2006	17-Aug	2 C	15	-0.0042	0.0251	-0.0201	0.0000	0.0000	4.7818
2006	17-Aug	3 C	15	-0.0037	0.0718	-0.0575	0.0210	-0.0168	0.7713
2006	17-Aug	1 T	15	-0.0040	0.0320	-0.0252	0.0289	-0.0228	1.5394
2006	17-Aug	2 T	15	-0.0092	0.0327	-0.0258	0.0220	-0.0173	2.4917
2006	17-Aug	3 T	15	-0.0049	0.0264	-0.0208	0.0282	-0.0223	0.6188
2006	17-Aug	1 C	30	-0.0070	0.0433	-0.0310	0.0322	-0.0230	0.0268
2006	17-Aug	2 C	30	-0.0046	0.1016	-0.0728	0.0340	-0.0243	0.4371
2006	17-Aug	3 C	30	-0.0048	0.0325	-0.0232	0.0268	-0.0192	0.0213
2006	17-Aug	1 T	30	-0.0040	0.0359	-0.0244	0.0206	-0.0140	0.1070
2006	17-Aug	2 T	30	0.0000	0.0567	-0.0386	0.0000	0.0000	1.0934
2006	17-Aug	3 T	30	-0.1168	0.0342	-0.0233	0.0195	-0.0133	0.0855

year	date	rep	trt	depth	Ni2316	P_2149	P_2149	Pb2203	Pb2203	S_1820
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	17-Aug	1	C	60	-0.0046	0.0399	-0.0226	0.0321	-0.0182	0.0111

2006	17-Aug	2	C	60	-0.0023	0.0640	-0.0362	0.0211	-0.0120	0.0935
2006	17-Aug	3	C	60	-0.0038	0.0336	-0.0190	0.0407	-0.0230	0.0094
2006	17-Aug	1	T	60	-0.0048	0.0427	-0.0209	0.0277	-0.0136	0.0197
2006	17-Aug	2	T	60	-0.0050	0.0411	-0.0201	0.0154	-0.0075	0.0420
2006	17-Aug	3	T	60	-0.0045	0.0351	-0.0172	0.0250	-0.0122	0.0211
2006	17-Aug	1	C	120	-0.0015	0.0238	-0.0061	0.0286	-0.0073	0.0021
2006	17-Aug	2	C	120	-0.0118	0.0368	-0.0094	0.0286	-0.0073	0.0085
2006	17-Aug	3	C	120	-0.0027	0.0053	-0.0013	0.0000	0.0000	0.0050
2006	17-Aug	1	T	120	-0.0013	0.0342	-0.0049	0.0317	-0.0045	0.0105
2006	17-Aug	2	T	120	-0.0033	0.0386	-0.0055	0.0190	-0.0027	0.0204
2006	17-Aug	3	T	120	-0.0011	0.0210	-0.0030	0.0280	-0.0040	0.0056
2006	17-Aug	1	C	200	0.0000	0.0364	-0.0037	0.0000	0.0000	0.0817
2006	17-Aug	2	C	200	-0.0012	0.0340	-0.0035	0.0283	-0.0029	0.0105
2006	17-Aug	3	C	200	-0.0016	0.0351	-0.0036	0.0424	-0.0043	0.0122
2006	17-Aug	1	T	200	-0.0001	0.0032	-0.0004	0.0078	-0.0010	0.0000
2006	17-Aug	2	T	200	-0.0013	0.0000	0.0000	0.0010	-0.0001	0.0075
2006	17-Aug	3	T	200	-0.0017	0.0398	-0.0051	0.0265	-0.0034	0.0122
2006	24-Aug	1	C	15	-0.0043	0.0350	-0.0206	0.0303	-0.0178	0.8104
2006	24-Aug	2	C	15	-0.0029	0.0180	-0.0106	0.0000	0.0000	0.9736
2006	24-Aug	3	C	15	-0.0033	0.0597	-0.0352	0.0317	-0.0187	0.4583
2006	24-Aug	1	T	15	-0.0027	0.0378	-0.0222	0.0421	-0.0247	1.6749
2006	24-Aug	2	T	15	-0.0041	0.0370	-0.0217	0.0309	-0.0181	2.0829
2006	24-Aug	3	T	15	-0.0045	0.0376	-0.0220	0.0321	-0.0188	0.6149
2006	24-Aug	1	C	30	-0.0034	0.0818	-0.0464	0.0208	-0.0118	0.1218
2006	24-Aug	2	C	30	-0.0037	0.0588	-0.0334	0.0386	-0.0219	0.4651
2006	24-Aug	3	C	30	-0.0055	0.0200	-0.0113	0.0318	-0.0180	0.0092
2006	24-Aug	1	T	30	-0.0026	0.0321	-0.0183	0.0245	-0.0139	0.0992
2006	24-Aug	2	T	30	-0.0032	0.0292	-0.0167	0.0342	-0.0195	1.5343
2006	24-Aug	3	T	30	-0.9196	0.0548	-0.0313	0.0423	-0.0241	0.0882
2006	24-Aug	1	C	60	-0.0039	0.0384	-0.0209	0.0358	-0.0195	0.0271
2006	24-Aug	2	C	60	-0.0027	0.0361	-0.0197	0.0320	-0.0174	0.1061
2006	24-Aug	3	C	60	-0.0022	0.0506	-0.0276	0.0268	-0.0146	0.0742
2006	24-Aug	1	T	60	-0.0043	0.0459	-0.0250	0.0505	-0.0275	0.0186
2006	24-Aug	2	T	60	-0.0052	0.0308	-0.0168	0.0328	-0.0179	0.0276
2006	24-Aug	3	T	60	-0.0073	0.0276	-0.0150	0.0266	-0.0145	0.0192
2006	24-Aug	1	C	120	-0.0029	0.0170	-0.0086	0.0246	-0.0125	0.0035
2006	24-Aug	2	C	120	-0.0271	0.0304	-0.0154	0.0477	-0.0243	0.0106
2006	24-Aug	3	C	120	-0.0070	0.0371	-0.0189	0.0356	-0.0181	0.0188
2006	24-Aug	1	T	120	-0.0006	0.0610	-0.0315	0.0000	0.0000	0.0848
2006	24-Aug	2	T	120	-0.0101	0.0197	-0.0102	0.0270	-0.0140	0.0195
2006	24-Aug	3	T	120	-0.0044	0.0282	-0.0146	0.0233	-0.0120	0.0005
2006	24-Aug	1	C	200	-0.0024	0.0256	-0.0118	0.0509	-0.0234	0.0163
2006	24-Aug	2	C	200	-0.0053	0.0244	-0.0112	0.0340	-0.0156	0.0177
2006	24-Aug	3	C	200	-0.0064	0.1154	-0.0531	0.0372	-0.0171	0.1094
2006	24-Aug	1	T	200	-0.0001	0.0090	-0.0032	0.0084	-0.0030	0.0093

year	date	rep	trt	depth	Ni2316	P_2149	P_2149	Pb2203	Pb2203	S_1820
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	24-Aug	2	T	200	-0.0039	0.0059	-0.0021	0.0006	-0.0002	0.0198

2006	24-Aug	3 T	200	-0.0038	0.0329	-0.0118	0.0307	-0.0111	0.0000
2006	31-Aug	1 C	15	-0.0026	0.0266	-0.0121	0.0298	-0.0136	0.5980
2006	31-Aug	2 C	15						
2006	31-Aug	3 C	15	-0.0021	0.0665	-0.0303	0.0280	-0.0127	0.3556
2006	31-Aug	1 T	15	-0.0026	0.0319	-0.0157	0.0278	-0.0137	1.5442
2006	31-Aug	2 T	15	-0.0020	0.0306	-0.0151	0.0256	-0.0126	1.9207
2006	31-Aug	3 T	15	-0.0018	0.0263	-0.0130	0.0336	-0.0165	0.5568
2006	31-Aug	1 C	30	-0.0036	0.0327	-0.0172	0.0282	-0.0149	0.0637
2006	31-Aug	2 C	30	-0.0014	0.0679	-0.0358	0.0187	-0.0099	0.6757
2006	31-Aug	3 C	30	0.0000	0.0597	-0.0315	0.0000	0.0000	0.0897
2006	31-Aug	1 T	30	-0.0016	0.0349	-0.0199	0.0317	-0.0181	0.0775
2006	31-Aug	2 T	30	-0.0039	0.0420	-0.0240	0.0411	-0.0234	1.6734
2006	31-Aug	3 T	30						
2006	31-Aug	1 C	60	-0.0007	0.0458	-0.0297	0.0268	-0.0174	0.5602
2006	31-Aug	2 C	60	-0.0040	0.0389	-0.0252	0.0210	-0.0136	0.1400
2006	31-Aug	3 C	60	-0.0003	0.0298	-0.0193	0.0291	-0.0188	0.0000
2006	31-Aug	1 T	60	-0.0030	0.0157	-0.0112	0.0260	-0.0184	0.0144
2006	31-Aug	2 T	60	-0.0054	0.0383	-0.0272	0.0427	-0.0303	0.0170
2006	31-Aug	3 T	60	-0.0032	0.0330	-0.0234	0.0354	-0.0251	0.0247
2006	31-Aug	1 C	120	-0.0063	0.0186	-0.0148	0.0213	-0.0170	0.0063
2006	31-Aug	2 C	120	-0.0292	0.0219	-0.0175	0.0122	-0.0097	0.0092
2006	31-Aug	3 C	120	-0.0082	0.0367	-0.0292	0.0350	-0.0279	0.0120
2006	31-Aug	1 T	120	-0.0063	0.0225	-0.0184	0.0334	-0.0273	0.0087
2006	31-Aug	2 T	120	-0.0182	0.0210	-0.0172	0.0453	-0.0371	0.0129
2006	31-Aug	3 T	120	0.0000	0.0201	-0.0165	0.0000	0.0000	0.0769
2006	31-Aug	1 C	200	-0.0008	0.0044	-0.0035	0.0116	-0.0092	0.0000
2006	31-Aug	2 C	200	-0.0074	0.0165	-0.0131	0.0159	-0.0127	0.0092
2006	31-Aug	3 C	200	-0.0065	0.0217	-0.0172	0.0255	-0.0202	0.0000
2006	31-Aug	1 T	200	-0.0023	0.0069	-0.0052	0.0072	-0.0054	0.0000
2006	31-Aug	2 T	200	-0.0079	0.0064	-0.0048	0.0000	0.0000	0.0000
2006	31-Aug	3 T	200	-0.0086	0.0247	-0.0186	0.0283	-0.0213	0.0070
2006	7-Sep	1 C	15	0.0000	0.0242	-0.0004	0.0063	-0.0001	0.3607
2006	7-Sep	2 C	15	-0.0001	0.0242	-0.0004	0.0012	0.0000	0.6026
2006	7-Sep	3 C	15	-0.0001	0.0643	-0.0011	0.0192	-0.0003	0.5096
2006	7-Sep	1 T	15	-0.0002	0.0357	-0.0008	0.0326	-0.0007	1.5731
2006	7-Sep	2 T	15	-0.0002	0.0283	-0.0006	0.0363	-0.0008	1.6133
2006	7-Sep	3 T	15	-0.0002	0.0329	-0.0008	0.0059	-0.0001	0.4576
2006	7-Sep	1 C	30	-0.0001	0.0275	-0.0008	0.0176	-0.0005	0.0592
2006	7-Sep	2 C	30	0.0000	0.0510	-0.0014	0.0000	0.0000	0.5905
2006	7-Sep	3 C	30	-0.0002	0.0193	-0.0005	0.0158	-0.0004	0.0530
2006	7-Sep	1 T	30	-0.0002	0.0309	-0.0011	0.0230	-0.0008	0.0554
2006	7-Sep	2 T	30	-0.0001	0.0290	-0.0011	0.0259	-0.0009	0.9632
2006	7-Sep	3 T	30	-0.0035	0.0330	-0.0012	0.0076	-0.0003	0.1033
2006	7-Sep	1 C	60	-0.0003	0.0182	-0.0009	0.0178	-0.0009	0.0266
2006	7-Sep	2 C	60	-0.0002	0.0412	-0.0020	0.0113	-0.0005	0.0979

year	date	rep	trt	depth	Ni2316	P_2149	P_2149	Pb2203	Pb2203	S_1820
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	7-Sep	3 C		60	-0.0003	0.0271	-0.0013	0.0142	-0.0007	0.0292

2006	7-Sep	1 T	60	-0.0005	0.0283	-0.0020	0.0268	-0.0019	0.0000
2006	7-Sep	2 T	60	-0.0004	0.0225	-0.0016	0.0260	-0.0018	0.0082
2006	7-Sep	3 T	60	-0.0004	0.0252	-0.0018	0.0094	-0.0007	0.0243
2006	7-Sep	1 C	120	-0.0009	0.0165	-0.0021	0.0037	-0.0005	0.0150
2006	7-Sep	2 C	120	-0.0073	0.0274	-0.0035	0.0194	-0.0024	0.0424
2006	7-Sep	3 C	120	-0.0012	0.0263	-0.0033	0.0126	-0.0016	0.0240
2006	7-Sep	1 T	120	-0.0014	0.0245	-0.0045	0.0131	-0.0024	0.0047
2006	7-Sep	2 T	120	-0.0027	0.0514	-0.0095	0.0000	0.0000	0.0725
2006	7-Sep	3 T	120	-0.0003	0.0416	-0.0077	0.0000	0.0000	0.0928
2006	7-Sep	1 C	200	-0.0015	0.0305	-0.0075	0.0153	-0.0038	0.0194
2006	7-Sep	2 C	200	-0.0034	0.0336	-0.0083	0.0096	-0.0024	0.0221
2006	7-Sep	3 C	200	-0.0021	0.0123	-0.0030	0.0070	-0.0017	0.0392
2006	7-Sep	1 T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	7-Sep	2 T	200	-0.0034	0.0325	-0.0111	0.0071	-0.0024	0.0215
2006	7-Sep	3 T	200	-0.0057	0.0506	-0.0172	0.0237	-0.0081	0.0253
2006	14-Sep	1 C	15	0.0000	0.0496	-0.0030	0.0000	0.0000	0.2824
2006	14-Sep	2 C	15	-0.0003	0.0288	-0.0018	0.0042	-0.0003	1.2634
2006	14-Sep	3 C	15	-0.0006	0.0288	-0.0018	0.0099	-0.0006	0.4981
2006	14-Sep	1 T	15	-0.0005	0.0284	-0.0017	0.0147	-0.0009	0.9321
2006	14-Sep	2 T	15	-0.0004	0.0224	-0.0014	0.0058	-0.0004	1.3385
2006	14-Sep	3 T	15	-0.0004	0.0136	-0.0008	0.0143	-0.0009	0.2797
2006	14-Sep	1 C	30	-0.0002	0.0253	-0.0015	0.0057	-0.0003	0.0505
2006	14-Sep	2 C	30	-0.0003	0.0685	-0.0042	0.0084	-0.0005	0.3693
2006	14-Sep	3 C	30	-0.0003	0.0070	-0.0004	0.0000	0.0000	0.0327
2006	14-Sep	1 T	30	-0.0003	0.0246	-0.0015	0.0085	-0.0005	0.0566
2006	14-Sep	2 T	30	-0.0003	0.0350	-0.0022	0.0158	-0.0010	1.1230
2006	14-Sep	3 T	30	-0.0160	0.0211	-0.0013	0.0089	-0.0006	0.1053
2006	14-Sep	1 C	60	-0.0003	0.0405	-0.0025	0.0223	-0.0014	0.0337
2006	14-Sep	2 C	60	-0.0003	0.0329	-0.0020	0.0201	-0.0012	0.0833
2006	14-Sep	3 C	60	0.0000	0.0475	-0.0029	0.0000	0.0000	0.1025
2006	14-Sep	1 T	60	-0.0002	0.0311	-0.0021	0.0050	-0.0003	0.0280
2006	14-Sep	2 T	60	-0.0006	0.0218	-0.0015	0.0067	-0.0005	0.0267
2006	14-Sep	3 T	60	-0.0004	0.0284	-0.0020	0.0199	-0.0014	0.0236
2006	14-Sep	1 C	120	-0.0005	0.0212	-0.0017	0.0000	0.0000	0.0249
2006	14-Sep	2 C	120	-0.0030	0.0134	-0.0010	0.0000	0.0000	0.0288
2006	14-Sep	3 C	120	-0.0007	0.0083	-0.0007	0.0035	-0.0003	0.0681
2006	14-Sep	1 T	120	-0.0002	0.0458	-0.0047	0.0000	0.0000	0.1061
2006	14-Sep	2 T	120	-0.0019	0.0083	-0.0009	0.0135	-0.0014	0.0229
2006	14-Sep	3 T	120	-0.0009	0.0136	-0.0014	0.0100	-0.0010	0.0037
2006	14-Sep	1 C	200	-0.0001	0.0057	-0.0007	0.0015	-0.0002	0.0207
2006	14-Sep	2 C	200	-0.0018	0.0147	-0.0019	0.0074	-0.0010	0.0306
2006	14-Sep	3 C	200	-0.0011	0.0221	-0.0029	0.0137	-0.0018	0.0230
2006	14-Sep	1 T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0139
2006	14-Sep	2 T	200	-0.0019	0.0302	-0.0054	0.0226	-0.0040	0.0306
2006	14-Sep	3 T	200	-0.0021	0.0097	-0.0017	0.0084	-0.0015	0.0295

year	date	rep	trt	depth	Ni2316	P_2149	P_2149	Pb2203	Pb2203	S_1820
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	21-Sep	1 C		15	-0.0002	0.0461	-0.0029	0.0129	-0.0008	0.1223

2006	21-Sep	2 C	15	-0.0004	0.0250	-0.0016	0.0076	-0.0005	1.1268
2006	21-Sep	3 C	15	-0.0005	0.0533	-0.0033	0.0232	-0.0015	0.2130
2006	21-Sep	1 T	15	-0.0009	0.0338	-0.0022	0.0191	-0.0013	1.1101
2006	21-Sep	2 T	15	-0.0003	0.0122	-0.0008	0.0151	-0.0010	1.0095
2006	21-Sep	3 T	15	-0.0002	0.0588	-0.0039	0.0000	0.0000	0.2473
2006	21-Sep	1 C	30	-0.0002	0.0000	0.0000	0.0000	0.0000	0.0284
2006	21-Sep	2 C	30	-0.0002	0.0696	-0.0054	0.0000	0.0000	0.1795
2006	21-Sep	3 C	30	-0.0006	0.0246	-0.0019	0.0000	0.0000	0.0381
2006	21-Sep	1 T	30	-0.0003	0.0240	-0.0020	0.0073	-0.0006	0.0723
2006	21-Sep	2 T	30	-0.0008	0.0257	-0.0021	0.0086	-0.0007	1.0606
2006	21-Sep	3 T	30	-0.0565	0.0477	-0.0039	0.0104	-0.0009	0.0871
2006	21-Sep	1 C	60	-0.0004	0.0154	-0.0014	0.0000	0.0000	0.0198
2006	21-Sep	2 C	60	-0.0005	0.0223	-0.0021	0.0057	-0.0005	0.0735
2006	21-Sep	3 C	60	-0.0006	0.0128	-0.0012	0.0079	-0.0007	0.0310
2006	21-Sep	1 T	60	-0.0002	0.0223	-0.0022	0.0146	-0.0014	0.0305
2006	21-Sep	2 T	60	-0.0009	0.0204	-0.0020	0.0018	-0.0002	0.0289
2006	21-Sep	3 T	60	-0.0005	0.0301	-0.0030	0.0028	-0.0003	0.0266
2006	21-Sep	1 C	120	-0.0006	0.0079	-0.0007	0.0047	-0.0004	0.0206
2006	21-Sep	2 C	120	-0.0027	0.0982	-0.0093	0.0000	0.0000	0.1440
2006	21-Sep	3 C	120	-0.0009	0.1153	-0.0109	0.0000	0.0000	0.1694
2006	21-Sep	1 T	120	-0.0008	0.0253	-0.0025	0.0201	-0.0020	0.0061
2006	21-Sep	2 T	120	-0.0018	0.0028	-0.0003	0.0020	-0.0002	0.0099
2006	21-Sep	3 T	120	-0.0006	0.0165	-0.0017	0.0140	-0.0014	0.0250
2006	21-Sep	1 C	200	-0.0004	0.0050	-0.0005	0.0039	-0.0004	0.0269
2006	21-Sep	2 C	200	-0.0012	0.0177	-0.0018	0.0000	0.0000	0.0407
2006	21-Sep	3 C	200	-0.0009	0.0009	-0.0001	0.0000	0.0000	0.0266
2006	21-Sep	1 T	200	-0.0008	0.0164	-0.0021	0.0034	-0.0004	0.0292
2006	21-Sep	2 T	200	-0.0011	0.0036	-0.0005	0.0000	0.0000	0.0125
2006	21-Sep	3 T	200	-0.0010	0.0253	-0.0032	0.0069	-0.0009	0.0229
2006	28-Sep	1 C	15	-0.0012	0.0348	-0.0063	0.0076	-0.0014	0.2376
2006	28-Sep	2 C	15	-0.0029	0.1195	-0.0216	0.0567	-0.0102	1.2291
2006	28-Sep	3 C	15	-0.0012	0.0771	-0.0139	0.0358	-0.0065	0.1742
2006	28-Sep	1 T	15	-0.0020	0.0111	-0.0020	0.0098	-0.0017	2.8096
2006	28-Sep	2 T	15	-0.0012	0.0186	-0.0033	0.0209	-0.0037	1.0044
2006	28-Sep	3 T	15	-0.0016	0.0210	-0.0037	0.0110	-0.0020	0.1267
2006	28-Sep	1 C	30	-0.0002	0.0162	-0.0026	0.0132	-0.0021	0.0425
2006	28-Sep	2 C	30	-0.0007	0.0761	-0.0121	0.0421	-0.0067	0.1379
2006	28-Sep	3 C	30	-0.0009	0.0258	-0.0041	0.0415	-0.0066	0.0070
2006	28-Sep	1 T	30	-0.0003	0.0114	-0.0017	0.0194	-0.0029	0.0472
2006	28-Sep	2 T	30	-0.0010	0.0483	-0.0071	0.0060	-0.0009	1.0651
2006	28-Sep	3 T	30	-0.0321	0.0163	-0.0024	0.0199	-0.0029	0.1011
2006	28-Sep	1 C	60	-0.0015	0.0525	-0.0063	0.0498	-0.0060	0.0558
2006	28-Sep	2 C	60	-0.0008	0.0568	-0.0068	0.0400	-0.0048	0.0447
2006	28-Sep	3 C	60	-0.0008	0.0289	-0.0035	0.0263	-0.0032	0.0000
2006	28-Sep	1 T	60	-0.0004	0.0113	-0.0013	0.0076	-0.0008	0.0250

year	date	rep	trt	depth	Ni2316	P_2149	P_2149	Pb2203	Pb2203	S_1820
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	28-Sep	2	T	60	-0.0010	0.0273	-0.0031	0.0214	-0.0024	0.0365

2006	28-Sep	3	T	60	-0.0005	0.0286	-0.0032	0.0153	-0.0017	0.0327
2006	28-Sep	1	C	120	-0.0001	0.0434	-0.0037	0.0000	0.0000	0.0571
2006	28-Sep	2	C	120	-0.0022	0.0430	-0.0036	0.0000	0.0000	0.0798
2006	28-Sep	3	C	120	-0.0008	0.0234	-0.0020	0.0000	0.0000	0.0084
2006	28-Sep	1	T	120	-0.0006	0.0068	-0.0006	0.0000	0.0000	0.0173
2006	28-Sep	2	T	120	-0.0015	0.0222	-0.0020	0.0149	-0.0014	0.0465
2006	28-Sep	3	T	120	-0.0004	0.0381	-0.0034	0.0169	-0.0015	0.2785
2006	28-Sep	1	C	200	0.0000	0.0069	-0.0007	0.0041	-0.0004	0.0000
2006	28-Sep	2	C	200	-0.0012	0.0349	-0.0033	0.0298	-0.0028	0.0000
2006	28-Sep	3	C	200	-0.0016	0.0308	-0.0029	0.0456	-0.0043	0.0000
2006	28-Sep	1	T	200	-0.0001	0.0072	-0.0008	0.0000	0.0000	0.0121
2006	28-Sep	2	T	200	-0.0015	0.0210	-0.0024	0.0091	-0.0010	0.0359
2006	28-Sep	3	T	200	-0.0011	0.0193	-0.0022	0.0106	-0.0012	0.0373
2006	5-Oct	1	C	15	-0.0013	0.0821	-0.0271	0.0461	-0.0152	0.1368
2006	5-Oct	2	C	15	-0.0040	0.0744	-0.0245	0.0293	-0.0097	1.0183
2006	5-Oct	3	C	15	-0.0028	0.0703	-0.0232	0.0407	-0.0134	0.3894
2006	5-Oct	1	T	15	-0.0027	0.0321	-0.0101	0.0224	-0.0070	6.3725
2006	5-Oct	2	T	15	-0.0027	0.0261	-0.0082	0.0288	-0.0091	0.7537
2006	5-Oct	3	T	15	-0.0032	0.0282	-0.0089	0.0410	-0.0129	0.0625
2006	5-Oct	1	C	30	-0.0011	0.0263	-0.0076	0.0304	-0.0087	0.0021
2006	5-Oct	2	C	30	-0.0016	0.0733	-0.0211	0.0341	-0.0098	0.0938
2006	5-Oct	3	C	30	-0.0006	0.0241	-0.0069	0.0399	-0.0115	0.0053
2006	5-Oct	1	T	30	0.0000	0.0800	-0.0221	0.0000	0.0000	0.1037
2006	5-Oct	2	T	30	-0.0015	0.0548	-0.0151	0.0313	-0.0086	0.6805
2006	5-Oct	3	T	30	-0.0808	0.0284	-0.0078	0.0431	-0.0119	0.0476
2006	5-Oct	1	C	60	-0.0010	0.0194	-0.0046	0.0279	-0.0066	0.0000
2006	5-Oct	2	C	60	-0.0009	0.0327	-0.0078	0.0472	-0.0112	0.0293
2006	5-Oct	3	C	60	-0.0001	0.0985	-0.0235	0.0143	-0.0034	0.1102
2006	5-Oct	1	T	60	-0.0008	0.0199	-0.0044	0.0020	-0.0004	0.0149
2006	5-Oct	2	T	60	-0.0020	0.0426	-0.0095	0.0291	-0.0065	0.0000
2006	5-Oct	3	T	60	-0.0014	0.0212	-0.0047	0.0454	-0.0101	0.0000
2006	5-Oct	1	C	120	-0.0008	0.0091	-0.0015	0.0000	0.0000	0.0000
2006	5-Oct	2	C	120	-0.0040	0.0237	-0.0038	0.0346	-0.0056	0.0000
2006	5-Oct	3	C	120	-0.0014	0.0067	-0.0011	0.0000	0.0000	0.0085
2006	5-Oct	1	T	120	-0.0012	0.0156	-0.0021	0.0000	0.0000	0.0000
2006	5-Oct	2	T	120	-0.0019	0.0143	-0.0019	0.0399	-0.0054	0.0000
2006	5-Oct	3	T	120	-0.0009	0.0218	-0.0029	0.0483	-0.0065	0.0000
2006	5-Oct	1	C	200	-0.0005	0.0290	-0.0028	0.0250	-0.0025	0.0000
2006	5-Oct	2	C	200	-0.0013	0.0250	-0.0025	0.0357	-0.0035	0.0000
2006	5-Oct	3	C	200	-0.0016	0.0257	-0.0025	0.0297	-0.0029	0.0000
2006	5-Oct	1	T	200	-0.0002	0.0039	-0.0004	0.0024	-0.0002	0.0000
2006	5-Oct	2	T	200	-0.0010	0.0310	-0.0032	0.0428	-0.0045	0.0000
2006	5-Oct	3	T	200	-0.0003	0.0432	-0.0045	0.0000	0.0000	0.0698
2006	12-Oct	1	C	15	-0.0004	0.0430	-0.0059	0.0321	-0.0044	0.0796
2006	12-Oct	2	C	15	-0.0010	0.0557	-0.0076	0.0287	-0.0039	1.4558

year	date	rep	trt	depth cm	Ni2316 kg/ha	P_2149 ug/ml	P_2149 kg/ha	Pb2203 ug/ml	Pb2203 kg/ha	S_1820 ug/ml
2006	12-Oct	3	C	15	-0.0013	0.0559	-0.0076	0.0427	-0.0058	0.3681

2006	12-Oct	1 T	15	-0.0008	0.0263	-0.0035	0.0356	-0.0048	8.0387
2006	12-Oct	2 T	15	-0.0012	0.0241	-0.0032	0.0466	-0.0062	1.1269
2006	12-Oct	3 T	15	-0.0012	0.0897	-0.0120	0.0330	-0.0044	0.1858
2006	12-Oct	1 C	30	-0.0008	0.0215	-0.0025	0.0211	-0.0024	0.0000
2006	12-Oct	2 C	30	-0.0003	0.0544	-0.0063	0.0369	-0.0043	0.1089
2006	12-Oct	3 C	30	-0.0003	0.0206	-0.0024	0.0180	-0.0021	0.0000
2006	12-Oct	1 T	30	-0.0007	0.0289	-0.0033	0.0303	-0.0034	0.0477
2006	12-Oct	2 T	30	-0.0006	0.0347	-0.0039	0.0268	-0.0030	0.5189
2006	12-Oct	3 T	30	-0.0066	0.0188	-0.0021	0.0433	-0.0049	0.0603
2006	12-Oct	1 C	60	-0.0004	0.0213	-0.0021	0.0231	-0.0023	0.0000
2006	12-Oct	2 C	60	-0.0006	0.1194	-0.0117	0.0265	-0.0026	0.1238
2006	12-Oct	3 C	60	-0.0003	0.0294	-0.0029	0.0454	-0.0044	0.0000
2006	12-Oct	1 T	60	-0.0005	0.0196	-0.0021	0.0273	-0.0030	0.0011
2006	12-Oct	2 T	60	-0.0007	0.0143	-0.0016	0.0378	-0.0041	0.0000
2006	12-Oct	3 T	60	-0.0007	0.0285	-0.0031	0.0365	-0.0040	0.0000
2006	12-Oct	1 C	120	-0.0013	0.0229	-0.0030	0.0294	-0.0039	0.0000
2006	12-Oct	2 C	120	-0.0046	0.0086	-0.0011	0.0166	-0.0022	0.0000
2006	12-Oct	3 C	120	-0.0011	0.0070	-0.0009	0.0000	0.0000	0.0000
2006	12-Oct	1 T	120	-0.0014	0.0394	-0.0060	0.0338	-0.0051	0.0000
2006	12-Oct	2 T	120	-0.0031	0.0319	-0.0048	0.0505	-0.0076	0.0000
2006	12-Oct	3 T	120	-0.0016	0.0310	-0.0047	0.0374	-0.0056	0.0000
2006	12-Oct	1 C	200	-0.0006	0.0275	-0.0039	0.0422	-0.0060	0.0000
2006	12-Oct	2 C	200	-0.0017	0.0362	-0.0051	0.0384	-0.0055	0.0000
2006	12-Oct	3 C	200	-0.0016	0.0020	-0.0003	0.0237	-0.0034	0.0000
2006	12-Oct	1 T	200	-0.0004	0.0201	-0.0026	0.0162	-0.0021	0.0000
2006	12-Oct	2 T	200	-0.0009	0.0196	-0.0025	0.0302	-0.0038	0.0000
2006	12-Oct	3 T	200	-0.0017	0.0328	-0.0042	0.0428	-0.0054	0.0000
2006	19-Oct	1 C	15	-0.0021	0.0445	-0.0207	0.0387	-0.0180	0.0326
2006	19-Oct	2 C	15	-0.0025	0.0245	-0.0114	0.0000	0.0000	1.6378
2006	19-Oct	3 C	15	-0.0023	0.0382	-0.0178	0.0363	-0.0169	0.3674
2006	19-Oct	1 T	15	-0.0019	0.0286	-0.0126	0.0196	-0.0086	8.1453
2006	19-Oct	2 T	15	-0.0044	0.1111	-0.0489	0.0281	-0.0124	1.2178
2006	19-Oct	3 T	15	-0.0040	0.0260	-0.0115	0.0455	-0.0200	0.0800
2006	19-Oct	1 C	30	-0.0032	0.0260	-0.0105	0.0325	-0.0131	0.0000
2006	19-Oct	2 C	30	-0.0006	0.0327	-0.0131	0.0073	-0.0029	0.0886
2006	19-Oct	3 C	30	-0.0011	0.0012	-0.0005	0.0266	-0.0107	0.0463
2006	19-Oct	1 T	30	-0.0014	0.0194	-0.0068	0.0295	-0.0104	0.0398
2006	19-Oct	2 T	30	-0.0006	0.0131	-0.0046	0.0323	-0.0113	0.4851
2006	19-Oct	3 T	30	-0.0149	0.0083	-0.0029	0.0000	0.0000	0.0646
2006	19-Oct	1 C	60	-0.0011	0.0205	-0.0054	0.0311	-0.0082	0.0000
2006	19-Oct	2 C	60	-0.0010	0.0267	-0.0070	0.0042	-0.0011	0.0374
2006	19-Oct	3 C	60	-0.0004	0.0091	-0.0024	0.0153	-0.0040	0.0221
2006	19-Oct	1 T	60	-0.0007	0.0169	-0.0033	0.0437	-0.0085	0.0000
2006	19-Oct	2 T	60	-0.0013	0.0257	-0.0050	0.0415	-0.0081	0.0060
2006	19-Oct	3 T	60	-0.0006	0.0207	-0.0040	0.0325	-0.0064	0.0000

year	date	rep	trt	depth	Ni2316	P_2149	P_2149	Pb2203	Pb2203	S_1820
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	19-Oct	1 C		120	-0.0009	0.0080	-0.0011	0.0004	-0.0001	0.0045

2006	19-Oct	2	C	120	-0.0031	0.0000	0.0000	0.0054	-0.0007	0.0052
2006	19-Oct	3	C	120	-0.0013	0.0026	-0.0004	0.0000	0.0000	0.0155
2006	19-Oct	1	T	120	-0.0008	0.0146	-0.0019	0.0289	-0.0038	0.0000
2006	19-Oct	2	T	120	-0.0017	0.0130	-0.0017	0.0283	-0.0037	0.0000
2006	19-Oct	3	T	120	-0.0007	0.0291	-0.0038	0.0319	-0.0042	0.0000
2006	19-Oct	1	C	200	-0.0001	0.0131	-0.0017	0.0088	-0.0012	0.0256
2006	19-Oct	2	C	200	-0.0013	0.0157	-0.0021	0.0075	-0.0010	0.0260
2006	19-Oct	3	C	200	-0.0013	0.0096	-0.0013	0.0128	-0.0017	0.0390
2006	19-Oct	1	T	200	-0.0016	0.0187	-0.0025	0.0408	-0.0055	0.0000
2006	19-Oct	2	T	200	-0.0011	0.0127	-0.0017	0.0291	-0.0039	0.0000
2006	19-Oct	3	T	200	-0.0012	0.0299	-0.0040	0.0329	-0.0044	0.0000
2006	26-Oct	1	C	15	-0.0082	0.0420	-0.0687	0.0151	-0.0247	0.1063
2006	26-Oct	2	C	15	-0.0091	0.0371	-0.0608	0.0033	-0.0053	2.5236
2006	26-Oct	3	C	15	-0.0079	0.0443	-0.0725	0.0096	-0.0157	0.3565
2006	26-Oct	1	T	15	-0.0047	0.0074	-0.0122	0.0134	-0.0220	6.8278
2006	26-Oct	2	T	15	-0.0149	0.0457	-0.0753	0.0119	-0.0196	0.8698
2006	26-Oct	3	T	15	-0.0095	0.0326	-0.0537	0.0232	-0.0382	0.3780
2006	26-Oct	1	C	30	-0.0117	0.0019	-0.0031	0.0000	0.0000	0.0062
2006	26-Oct	2	C	30	-0.0069	0.0492	-0.0822	0.0013	-0.0022	0.2219
2006	26-Oct	3	C	30	-0.0111	0.0155	-0.0259	0.0000	0.0000	0.0070
2006	26-Oct	1	T	30	-0.0016	0.0105	-0.0178	0.0196	-0.0332	0.0692
2006	26-Oct	2	T	30	-0.0157	0.0356	-0.0604	0.0141	-0.0239	0.5502
2006	26-Oct	3	T	30	-0.0263	0.0210	-0.0357	0.0138	-0.0234	0.2136
2006	26-Oct	1	C	60	0.0000	0.0441	-0.0743	0.0000	0.0000	0.1117
2006	26-Oct	2	C	60	-0.0119	0.0476	-0.0801	0.0000	0.0000	0.0509
2006	26-Oct	3	C	60	-0.0061	0.0315	-0.0530	0.0055	-0.0093	0.0243
2006	26-Oct	1	T	60	-0.0045	0.0000	0.0000	0.0181	-0.0317	0.0574
2006	26-Oct	2	T	60	-0.0056	0.0214	-0.0375	0.0000	0.0000	0.0737
2006	26-Oct	3	T	60	-0.0108	0.0391	-0.0687	0.0111	-0.0196	0.0388
2006	26-Oct	1	C	120	-0.0161	0.0282	-0.0446	0.0076	-0.0121	0.0388
2006	26-Oct	2	C	120	-0.0326	0.0352	-0.0556	0.0256	-0.0404	0.0328
2006	26-Oct	3	C	120	-0.0202	0.0341	-0.0539	0.0223	-0.0353	0.0249
2006	26-Oct	1	T	120	-0.0142	0.0384	-0.0613	0.0139	-0.0222	0.0409
2006	26-Oct	2	T	120	-0.0229	0.0059	-0.0094	0.0002	-0.0003	0.0013
2006	26-Oct	3	T	120	-0.0184	0.0357	-0.0569	0.0134	-0.0214	0.0313
2006	26-Oct	1	C	200	-0.0117	0.0376	-0.0536	0.0055	-0.0078	0.0368
2006	26-Oct	2	C	200	-0.0175	0.0063	-0.0090	0.0042	-0.0060	0.0000
2006	26-Oct	3	C	200	-0.0261	0.0215	-0.0307	0.0095	-0.0135	0.0431
2006	26-Oct	1	T	200	-0.0051	0.0130	-0.0174	0.0028	-0.0038	0.0183
2006	26-Oct	2	T	200	-0.0124	0.0038	-0.0051	0.0000	0.0000	0.0000
2006	26-Oct	3	T	200	-0.0169	0.0318	-0.0428	0.0284	-0.0382	0.0418
2006	2-Nov	1	C	15	0.0000	0.0590	0.0023	0.0000	0.0000	0.1686
2006	2-Nov	2	C	15	0.0001	0.0353	0.0014	0.0094	0.0004	1.0856
2006	2-Nov	3	C	15	0.0003	0.0361	0.0014	0.0114	0.0004	1.1789
2006	2-Nov	1	T	15	0.0002	0.0445	0.0012	0.0095	0.0003	5.1161

year	date	rep	trt	depth	Ni2316	P_2149	P_2149	Pb2203	Pb2203	S_1820
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	2-Nov	2	T	15	0.0001	0.0274	0.0008	0.0209	0.0006	2.5793

2006	2-Nov	3 T	15	0.0002	0.0359	0.0010	0.0195	0.0005	0.7311
2006	2-Nov	1 C	30	0.0000	0.0288	-0.0001	0.0181	-0.0001	0.0535
2006	2-Nov	2 C	30	0.0000	0.0349	-0.0001	0.0067	0.0000	1.0679
2006	2-Nov	3 C	30	0.0000	0.0415	-0.0002	0.0148	-0.0001	0.0845
2006	2-Nov	1 T	30	0.0000	0.0342	-0.0010	0.0000	0.0000	0.1179
2006	2-Nov	2 T	30	-0.0002	0.0306	-0.0009	0.0184	-0.0006	0.5814
2006	2-Nov	3 T	30	-0.0023	0.0231	-0.0007	0.0128	-0.0004	0.2038
2006	2-Nov	1 C	60	-0.0002	0.0332	-0.0021	0.0105	-0.0007	0.0578
2006	2-Nov	2 C	60	-0.0003	0.0328	-0.0020	0.0021	-0.0001	0.0557
2006	2-Nov	3 C	60	-0.0004	0.0138	-0.0009	0.0161	-0.0010	0.0412
2006	2-Nov	1 T	60	-0.0007	0.0290	-0.0029	0.0298	-0.0030	0.0566
2006	2-Nov	2 T	60	-0.0009	0.0337	-0.0034	0.0114	-0.0011	0.0524
2006	2-Nov	3 T	60	-0.0007	0.0274	-0.0027	0.0357	-0.0036	0.0528
2006	2-Nov	1 C	120	-0.0010	0.0272	-0.0037	0.0115	-0.0016	0.0477
2006	2-Nov	2 C	120	-0.0042	0.0253	-0.0035	0.0121	-0.0017	0.0405
2006	2-Nov	3 C	120	-0.0016	0.0048	-0.0007	0.0002	0.0000	0.0099
2006	2-Nov	1 T	120	-0.0020	0.0304	-0.0063	0.0139	-0.0029	0.0463
2006	2-Nov	2 T	120	-0.0041	0.0255	-0.0052	0.0295	-0.0061	0.0383
2006	2-Nov	3 T	120	-0.0014	0.0283	-0.0058	0.0098	-0.0020	0.2545
2006	2-Nov	1 C	200	-0.0019	0.0211	-0.0058	0.0302	-0.0083	0.0436
2006	2-Nov	2 C	200	-0.0039	0.0352	-0.0097	0.0183	-0.0051	0.0444
2006	2-Nov	3 C	200	-0.0040	0.0767	-0.0212	0.0000	0.0000	0.1524
2006	2-Nov	1 T	200	-0.0012	0.0259	-0.0100	0.0117	-0.0045	0.0297
2006	2-Nov	2 T	200	-0.0046	0.0387	-0.0149	0.0241	-0.0093	0.0378
2006	2-Nov	3 T	200	-0.0029	0.0133	-0.0051	0.0066	-0.0025	0.0243
2006	9-Nov	1 C	15	-0.0022	0.0555	-0.0265	0.0184	-0.0088	0.0967
2006	9-Nov	2 C	15	-0.0021	0.0076	-0.0036	0.0000	0.0000	0.5908
2006	9-Nov	3 C	15	-0.0030	0.0386	-0.0184	0.0010	-0.0005	0.5175
2006	9-Nov	1 T	15	-0.0027	0.0380	-0.0173	0.0112	-0.0051	3.8570
2006	9-Nov	2 T	15	-0.0037	0.0438	-0.0199	0.0147	-0.0067	1.0149
2006	9-Nov	3 T	15	-0.0019	0.0198	-0.0090	0.0025	-0.0011	1.0332
2006	9-Nov	1 C	30	-0.0027	0.0380	-0.0127	0.0117	-0.0039	0.0651
2006	9-Nov	2 C	30	-0.0026	0.0317	-0.0106	0.0074	-0.0025	0.0628
2006	9-Nov	3 C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	9-Nov	1 T	30	-0.0017	0.1208	-0.0345	0.0009	-0.0002	0.0563
2006	9-Nov	2 T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	9-Nov	3 T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	9-Nov	1 C	60	-0.0006	0.0303	-0.0025	0.0092	-0.0008	0.0370
2006	9-Nov	2 C	60	-0.0005	0.0338	-0.0028	0.0101	-0.0008	1.4730
2006	9-Nov	3 C	60	-0.0005	0.0250	-0.0021	0.0236	-0.0020	0.0553
2006	9-Nov	1 T	60	-0.0002	0.0357	-0.0011	0.0022	-0.0001	0.0121
2006	9-Nov	2 T	60	-0.0003	0.0169	-0.0005	0.0071	-0.0002	0.0080
2006	9-Nov	3 T	60						
2006	9-Nov	1 C	120	0.0000	0.0539	-0.0006	0.0000	0.0000	0.1217
2006	9-Nov	2 C	120	-0.0004	0.0166	-0.0002	0.0135	-0.0001	0.0420

year	date	rep	trt	depth	Ni2316	P_2149	P_2149	Pb2203	Pb2203	S_1820
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	9-Nov	3 C		120	-0.0001	0.0256	-0.0003	0.0172	-0.0002	0.0481

2006	9-Nov	1 T	120	-0.0003	0.0265	-0.0011	0.0132	-0.0005	0.0497
2006	9-Nov	2 T	120	-0.0009	0.0284	-0.0011	0.0153	-0.0006	0.0479
2006	9-Nov	3 T	120	-0.0005	0.0573	-0.0023	0.0142	-0.0006	0.5761
2006	9-Nov	1 C	200	-0.0003	0.0215	-0.0026	0.0055	-0.0007	0.0360
2006	9-Nov	2 C	200	-0.0020	0.0240	-0.0029	0.0092	-0.0011	0.0399
2006	9-Nov	3 C	200	-0.0014	0.0172	-0.0020	0.0145	-0.0017	0.0484
2006	9-Nov	1 T	200	-0.0004	0.0046	-0.0008	0.0000	0.0000	0.0334
2006	9-Nov	2 T	200	-0.0012	0.0289	-0.0049	0.0000	0.0000	0.0325
2006	9-Nov	3 T	200	-0.0018	0.0270	-0.0046	0.0013	-0.0002	0.0477
2006	16-Nov	1 C	15	-0.0035	0.1027	-0.0603	0.0169	-0.0099	0.1724
2006	16-Nov	2 C	15	-0.0021	0.0183	-0.0108	0.0000	0.0000	0.6287
2006	16-Nov	3 C	15	-0.0045	0.0403	-0.0237	0.0141	-0.0083	0.2931
2006	16-Nov	1 T	15	-0.0032	0.0241	-0.0145	0.0240	-0.0144	4.0819
2006	16-Nov	2 T	15	-0.0031	0.0273	-0.0164	0.0041	-0.0025	1.4862
2006	16-Nov	3 T	15	-0.0057	0.0397	-0.0238	0.0200	-0.0120	0.6631
2006	16-Nov	1 C	30	-0.0037	0.0347	-0.0194	0.0200	-0.0112	0.0622
2006	16-Nov	2 C	30	-0.0026	0.0400	-0.0224	0.0000	0.0000	0.6715
2006	16-Nov	3 C	30	-0.0034	0.0351	-0.0196	0.0072	-0.0040	0.0647
2006	16-Nov	1 T	30	-0.0044	0.0289	-0.0174	0.0135	-0.0081	0.0586
2006	16-Nov	2 T	30	-0.0030	0.0289	-0.0174	0.0085	-0.0051	0.5362
2006	16-Nov	3 T	30	-0.0060	0.0269	-0.0162	0.0069	-0.0041	0.1280
2006	16-Nov	1 C	60	-0.0020	0.0172	-0.0095	0.0070	-0.0039	0.0389
2006	16-Nov	2 C	60	-0.0054	0.0296	-0.0164	0.0176	-0.0097	0.0575
2006	16-Nov	3 C	60	0.0000	0.0280	-0.0155	0.0000	0.0000	0.0627
2006	16-Nov	1 T	60	-0.0012	0.0162	-0.0092	0.0049	-0.0028	0.0416
2006	16-Nov	2 T	60	-0.0030	0.0221	-0.0126	0.0050	-0.0029	0.0413
2006	16-Nov	3 T	60	-0.0034	0.0224	-0.0128	0.0035	-0.0020	0.0515
2006	16-Nov	1 C	120	-0.0015	0.0154	-0.0038	0.0006	-0.0002	0.0375
2006	16-Nov	2 C	120	-0.0079	0.0262	-0.0064	0.0000	0.0000	0.0400
2006	16-Nov	3 C	120	-0.0013	0.0046	-0.0011	0.0000	0.0000	0.0314
2006	16-Nov	1 T	120	-0.0015	0.1102	-0.0177	0.0000	0.0000	0.1462
2006	16-Nov	2 T	120	-0.0028	0.0289	-0.0046	0.0116	-0.0019	0.0415
2006	16-Nov	3 T	120	-0.0014	0.0418	-0.0067	0.0098	-0.0016	0.1462
2006	16-Nov	1 C	200	-0.0004	0.0274	-0.0022	0.0110	-0.0009	0.0379
2006	16-Nov	2 C	200	-0.0010	0.0256	-0.0021	0.0059	-0.0005	0.0481
2006	16-Nov	3 C	200	-0.0005	0.0153	-0.0012	0.0000	0.0000	0.0091
2006	16-Nov	1 T	200	0.0000	0.0154	-0.0016	0.0000	0.0000	0.0376
2006	16-Nov	2 T	200	-0.0010	0.0214	-0.0022	0.0089	-0.0009	0.0219
2006	16-Nov	3 T	200	-0.0011	0.0238	-0.0024	0.0047	-0.0005	0.0354
2006	23-Nov	1 C	15	0.0000	0.0093	-0.0024	0.0100	-0.0025	0.0634
2006	23-Nov	2 C	15	0.0000	0.0073	-0.0019	0.0000	0.0000	0.5796
2006	23-Nov	3 C	15	-0.0001	0.0181	-0.0046	0.0126	-0.0032	1.1504
2006	23-Nov	1 T	15	0.0000	0.0136	-0.0036	0.0000	0.0000	2.9023
2006	23-Nov	2 T	15	0.0000	0.0208	-0.0054	0.0090	-0.0024	1.6618
2006	23-Nov	3 T	15	0.0000	0.0000	0.0000	0.0062	-0.0016	0.6680

year	date	rep	trt	depth	Ni2316	P_2149	P_2149	Pb2203	Pb2203	S_1820
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	23-Nov	1 C		30	-0.0006	0.0049	-0.0012	0.0129	-0.0032	0.0368

2006	23-Nov	2	C	30	0.0000	0.0086	-0.0021	0.0000	0.0000	1.0610
2006	23-Nov	3	C	30	-0.0004	0.0223	-0.0055	0.0107	-0.0027	0.0472
2006	23-Nov	1	T	30	0.0000	0.0003	-0.0001	0.0000	0.0000	0.0574
2006	23-Nov	2	T	30	0.0000	0.0147	-0.0039	0.0000	0.0000	0.5601
2006	23-Nov	3	T	30	-0.0004	0.0126	-0.0033	0.0064	-0.0017	0.1101
2006	23-Nov	1	C	60	0.0000	0.0000	0.0000	0.0017	-0.0004	0.0192
2006	23-Nov	2	C	60	0.0000	0.0166	-0.0039	0.0066	-0.0015	0.0484
2006	23-Nov	3	C	60	0.0000	0.0027	-0.0006	0.0000	0.0000	0.0153
2006	23-Nov	1	T	60	0.0000	0.0447	-0.0119	0.0000	0.0000	0.1079
2006	23-Nov	2	T	60	0.0000	0.0155	-0.0042	0.0073	-0.0020	0.0133
2006	23-Nov	3	T	60	0.0000	0.0152	-0.0040	0.0091	-0.0024	0.0303
2006	23-Nov	1	C	120	0.0000	0.0048	-0.0012	0.0039	-0.0010	0.0311
2006	23-Nov	2	C	120	-0.0056	0.0088	-0.0022	0.0035	-0.0009	0.0268
2006	23-Nov	3	C	120	-0.0011	0.0000	0.0000	0.0188	-0.0048	0.0308
2006	23-Nov	1	T	120	-0.0001	0.0060	-0.0017	0.0000	0.0000	0.0321
2006	23-Nov	2	T	120	-0.0026	0.0000	0.0000	0.0000	0.0000	0.0211
2006	23-Nov	3	T	120	-0.0009	0.0000	0.0000	0.0000	0.0000	0.0287
2006	23-Nov	1	C	200	0.0000	0.0152	-0.0038	0.0000	0.0000	0.0262
2006	23-Nov	2	C	200	-0.0012	0.0032	-0.0008	0.0000	0.0000	0.0277
2006	23-Nov	3	C	200	-0.0018	0.0102	-0.0025	0.0088	-0.0022	0.0392
2006	23-Nov	1	T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	23-Nov	2	T	200	0.0000	0.0378	-0.0072	0.0000	0.0000	0.1069
2006	23-Nov	3	T	200	-0.0016	0.0052	-0.0010	0.0003	-0.0001	0.0250
2006	30-Nov	1	C	15	0.0000	0.0808	-0.0246	0.0000	0.0000	0.1784
2006	30-Nov	2	C	15	0.0000	0.0072	-0.0022	0.0000	0.0000	1.5461
2006	30-Nov	3	C	15	0.0000	0.0082	-0.0025	0.0000	0.0000	1.0232
2006	30-Nov	1	T	15	0.0000	0.0174	-0.0055	0.0032	-0.0010	2.6348
2006	30-Nov	2	T	15	0.0000	0.0016	-0.0005	0.0000	0.0000	1.5804
2006	30-Nov	3	T	15	0.0000	0.0311	-0.0099	0.0000	0.0000	0.7680
2006	30-Nov	1	C	30	-0.0005	0.0178	-0.0055	0.0051	-0.0016	0.0426
2006	30-Nov	2	C	30	0.0000	0.0067	-0.0021	0.0000	0.0000	0.8611
2006	30-Nov	3	C	30	0.0000	0.0269	-0.0084	0.0113	-0.0035	0.0456
2006	30-Nov	1	T	30	0.0000	0.0221	-0.0069	0.0000	0.0000	0.0608
2006	30-Nov	2	T	30	-0.0002	0.0091	-0.0028	0.0000	0.0000	0.4792
2006	30-Nov	3	T	30	-0.0030	0.0207	-0.0064	0.0035	-0.0011	0.1177
2006	30-Nov	1	C	60	0.0000	0.0125	-0.0036	0.0000	0.0000	0.0257
2006	30-Nov	2	C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0521
2006	30-Nov	3	C	60	0.0000	0.0398	-0.0115	0.0000	0.0000	0.0930
2006	30-Nov	1	T	60	0.0000	0.0279	-0.0081	0.0000	0.0000	0.0444
2006	30-Nov	2	T	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0319
2006	30-Nov	3	T	60	0.0000	0.0164	-0.0048	0.0060	-0.0017	0.0426
2006	30-Nov	1	C	120	-0.0003	0.0509	-0.0124	0.0000	0.0000	0.0482
2006	30-Nov	2	C	120	-0.0044	0.0236	-0.0057	0.0000	0.0000	0.0334
2006	30-Nov	3	C	120	-0.0010	0.0685	-0.0167	0.0000	0.0000	0.0518
2006	30-Nov	1	T	120	-0.0004	0.1062	-0.0252	0.0000	0.0000	0.1611

year	date	rep	trt	depth cm	Ni2316 kg/ha	P_2149 ug/ml	P_2149 kg/ha	Pb2203 ug/ml	Pb2203 kg/ha	S_1820 ug/ml
2006	30-Nov	2	T	120	-0.0018	0.0207	-0.0049	0.0045	-0.0011	0.0259

2006	30-Nov	3 T	120	-0.0009	0.0101	-0.0024	0.0046	-0.0011	0.0199
2006	30-Nov	1 C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0250
2006	30-Nov	2 C	200	-0.0009	0.0265	-0.0061	0.0071	-0.0016	0.0228
2006	30-Nov	3 C	200	-0.0010	0.0066	-0.0015	0.0130	-0.0030	0.0361
2006	30-Nov	1 T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0132
2006	30-Nov	2 T	200	-0.0006	0.0281	-0.0063	0.0000	0.0000	0.0242
2006	30-Nov	3 T	200	-0.0023	0.0369	-0.0083	0.0065	-0.0015	0.0252
2006	7-Dec	1 T	15						
2006	7-Dec	2 T	15						
2006	7-Dec	3 T	15	-0.0004	0.1877	-0.0165	0.0000	0.0000	0.5061
2006	7-Dec	1 C	30	0.0000	0.0357	-0.0006	0.0125	-0.0002	0.0578
2006	7-Dec	2 C	30	-0.0001	0.0883	-0.0015	0.0000	0.0000	0.7608
2006	7-Dec	3 C	30						
2006	7-Dec	1 T	30	0.0000	0.0441	0.0003	0.0113	0.0001	0.0608
2006	7-Dec	2 T	30	0.0000	0.0359	0.0003	0.0218	0.0002	0.3668
2006	7-Dec	3 T	30	0.0005	0.3049	0.0022	0.0000	0.0000	0.1709
2006	7-Dec	1 C	60	0.0000	0.0210	0.0002	0.0000	0.0000	0.0257
2006	7-Dec	2 C	60	0.0001	0.0930	0.0007	0.0007	0.0000	0.0494
2006	7-Dec	3 C	60	0.0000	0.0273	0.0002	0.0035	0.0000	0.0371
2006	7-Dec	1 T	60	0.0000	0.0371	-0.0006	0.0000	0.0000	0.0469
2006	7-Dec	2 T	60	0.0000	0.0292	-0.0004	0.0039	-0.0001	0.0269
2006	7-Dec	3 T	60	0.0000	0.0293	-0.0005	0.0000	0.0000	0.0453
2006	7-Dec	1 C	120	-0.0002	0.0396	-0.0026	0.0000	0.0000	0.0472
2006	7-Dec	2 C	120	-0.0020	0.0161	-0.0011	0.0035	-0.0002	0.0257
2006	7-Dec	3 C	120	-0.0007	0.0733	-0.0048	0.0002	0.0000	0.0124
2006	7-Dec	1 T	120	0.0000	0.0103	-0.0011	0.0000	0.0000	0.0240
2006	7-Dec	2 T	120	-0.0012	0.0118	-0.0012	0.0000	0.0000	0.0324
2006	7-Dec	3 T	120	-0.0003	0.0967	-0.0102	0.0000	0.0000	0.1661
2006	7-Dec	1 C	200	0.0000	0.0037	-0.0007	0.0000	0.0000	0.0269
2006	7-Dec	2 C	200	-0.0006	0.0324	-0.0057	0.0000	0.0000	0.0321
2006	7-Dec	3 C	200	-0.0003	0.0286	-0.0050	0.0000	0.0000	0.0265
2006	7-Dec	1 T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0206
2006	7-Dec	2 T	200	-0.0007	0.0386	-0.0080	0.0035	-0.0007	0.0218
2006	7-Dec	3 T	200	-0.0013	0.0287	-0.0059	0.0000	0.0000	0.0311
2006	14-Dec	1 C	15	0.0000	0.0422	0.0009	0.0000	0.0000	0.1744
2006	14-Dec	2 C	15	0.0001	0.4490	0.0101	0.0047	0.0001	1.7736
2006	14-Dec	3 C	15	0.0000	0.0354	0.0008	0.0057	0.0001	0.7654
2006	14-Dec	1 T	15	0.0000	0.0242	0.0000	0.0000	0.0000	1.8856
2006	14-Dec	2 T	15	0.0000	0.0180	0.0000	0.0000	0.0000	1.6887
2006	14-Dec	3 T	15	0.0000	0.0497	0.0000	0.0054	0.0000	0.7569
2006	14-Dec	1 C	30	0.0000	0.0214	-0.0005	0.0000	0.0000	0.0216
2006	14-Dec	2 C	30	0.0000	0.0154	-0.0004	0.0000	0.0000	0.7932
2006	14-Dec	3 C	30	-0.0003	0.8474	-0.0215	0.0000	0.0000	0.2156
2006	14-Dec	1 T	30	0.0000	0.0184	-0.0017	0.0064	-0.0006	0.0508
2006	14-Dec	2 T	30	0.0000	0.0276	-0.0026	0.0000	0.0000	0.4378

year	date	rep	trt	depth	Ni2316	P_2149	P_2149	Pb2203	Pb2203	S_1820
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	14-Dec	3 T		30	-0.0011	0.0354	-0.0033	0.0000	0.0000	0.1420

2006	14-Dec	1	C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0178
2006	14-Dec	2	C	60	0.0000	0.0110	-0.0010	0.0010	-0.0001	0.0554
2006	14-Dec	3	C	60	0.0000	0.0276	-0.0024	0.0164	-0.0014	0.0098
2006	14-Dec	1	T	60	0.0000	0.0761	-0.0064	0.0000	0.0000	0.1424
2006	14-Dec	2	T	60	0.0000	0.0193	-0.0016	0.0000	0.0000	0.0247
2006	14-Dec	3	T	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0173
2006	14-Dec	1	C	120	0.0000	0.0283	-0.0014	0.0152	-0.0008	0.0183
2006	14-Dec	2	C	120	-0.0014	0.0066	-0.0003	0.0138	-0.0007	0.0177
2006	14-Dec	3	C	120	0.0000	0.1666	-0.0083	0.0000	0.0000	0.1877
2006	14-Dec	1	T	120	0.0000	0.0148	-0.0009	0.0000	0.0000	0.0333
2006	14-Dec	2	T	120	-0.0006	0.0095	-0.0006	0.0000	0.0000	0.0283
2006	14-Dec	3	T	120	-0.0001	0.0021	-0.0001	0.0096	-0.0006	0.0173
2006	14-Dec	1	C	200	0.0000	0.0391	-0.0038	0.0000	0.0000	0.1034
2006	14-Dec	2	C	200	-0.0008	0.0697	-0.0068	0.0232	-0.0023	0.0179
2006	14-Dec	3	C	200	-0.0004	0.0827	-0.0080	0.0154	-0.0015	0.0781
2006	14-Dec	1	T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0115
2006	14-Dec	2	T	200	-0.0005	0.0340	-0.0044	0.0000	0.0000	0.0216
2006	14-Dec	3	T	200	0.0000	0.0242	-0.0031	0.0000	0.0000	0.0360

year	date	rep	trt	depth	S_1820	Se1960	Se1960	Sr4215	Sr4215	Ti3349
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	21-Apr	1	C	15	-0.0091	0.0000	0.0000	0.0016	-0.0001	0.0000
2006	21-Apr	2	C	15	-0.0524	0.0032	-0.0002	0.0123	-0.0010	0.0000

2006	21-Apr	3 C	15	-0.1855	0.0040	-0.0003	0.0042	-0.0003	0.0000
2006	21-Apr	1 T	15	-0.1780	0.0126	-0.0009	0.0070	-0.0005	0.0000
2006	21-Apr	2 T	15	-0.0629	0.0000	0.0000	0.0393	-0.0028	0.0058
2006	21-Apr	3 T	15	-0.0260	0.0000	0.0000	0.0019	-0.0001	0.0000
2006	21-Apr	1 C	30	-0.0043	0.0000	0.0000	0.0133	-0.0006	0.0006
2006	21-Apr	2 C	30	-0.0243	0.0000	0.0000	0.0054	-0.0002	0.0000
2006	21-Apr	3 C	30						
2006	21-Apr	1 T	30	-0.0011	0.0101	-0.0004	0.0012	0.0000	0.0000
2006	21-Apr	2 T	30						
2006	21-Apr	3 T	30	-0.0084	0.0000	0.0000	0.0061	-0.0002	0.0049
2006	21-Apr	1 C	60						
2006	21-Apr	2 C	60	-0.0022	0.0000	0.0000	0.0057	-0.0001	0.0000
2006	21-Apr	3 C	60	-0.0004	0.0036	-0.0001	0.0118	-0.0003	0.0000
2006	27-Apr	1 C	15	-0.2134	0.0000	0.0000	0.0024	-0.0027	0.0000
2006	27-Apr	2 C	15	-0.6672	0.0000	0.0000	0.0174	-0.0201	0.0056
2006	27-Apr	3 C	15	-0.3704	0.0000	0.0000	0.0050	-0.0058	0.0000
2006	27-Apr	1 T	15	-1.8262	0.0000	0.0000	0.0063	-0.0071	0.0000
2006	27-Apr	2 T	15	-1.5101	0.0045	-0.0052	0.0211	-0.0240	0.0000
2006	27-Apr	3 T	15	-0.3881	0.0000	0.0000	0.0038	-0.0043	0.0000
2006	27-Apr	1 C	30	-0.0233	0.0009	-0.0010	0.0116	-0.0126	0.0000
2006	27-Apr	2 C	30	-0.7856	0.0000	0.0000	0.0037	-0.0040	0.0000
2006	27-Apr	3 C	30	-0.0642	0.0076	-0.0082	0.0150	-0.0163	0.0000
2006	27-Apr	1 T	30	-0.0282	0.0000	0.0000	0.0065	-0.0069	0.0000
2006	27-Apr	2 T	30	-0.4265	0.0028	-0.0030	0.0327	-0.0347	0.0000
2006	27-Apr	3 T	30	-0.0965	0.0000	0.0000	0.0255	-0.0271	0.0000
2006	27-Apr	1 C	60	-0.0260	0.0026	-0.0023	0.0253	-0.0229	0.0000
2006	27-Apr	2 C	60	-0.0511	0.0000	0.0000	0.0036	-0.0033	0.0000
2006	27-Apr	3 C	60	-0.0054	0.0000	0.0000	0.0076	-0.0069	0.0000
2006	27-Apr	1 T	60	-0.0246	0.0000	0.0000	0.0071	-0.0057	0.0000
2006	27-Apr	2 T	60	-0.0832	0.0000	0.0000	0.0648	-0.0520	0.0079
2006	27-Apr	3 T	60	-0.0109	0.0000	0.0000	0.0179	-0.0144	0.0000
2006	27-Apr	1 C	120	-0.0105	0.0000	0.0000	0.0108	-0.0042	0.0000
2006	27-Apr	2 C	120	-0.0066	0.0048	-0.0019	0.0138	-0.0054	0.0000
2006	27-Apr	3 C	120	-0.0162	0.0000	0.0000	0.0248	-0.0096	0.0015
2006	27-Apr	1 T	120	-0.0025	0.0000	0.0000	0.0103	-0.0015	0.0000
2006	27-Apr	2 T	120						
2006	27-Apr	3 T	120	-0.0068	0.0000	0.0000	0.0076	-0.0011	0.0000
2006	27-Apr	1 C	200	-0.0002	0.0000	0.0000	0.0009	0.0000	0.0000
2006	27-Apr	2 C	200	-0.0001	0.0000	0.0000	0.0029	0.0000	0.0085
2006	27-Apr	3 C	200	-0.0001	0.0000	0.0000	0.0038	0.0000	0.0024
2006	27-Apr	1 T	200	-0.0001	0.0000	0.0000	0.0012	0.0000	0.0021
2006	27-Apr	2 T	200						
2006	27-Apr	3 T	200	-0.0001	0.0003	0.0000	0.0047	0.0000	0.0000
2006	4-May	1 C	15	-0.0327	0.0000	0.0000	0.0068	-0.0031	0.0000
2006	4-May	2 C	15	-0.2192	0.0000	0.0000	0.0149	-0.0069	0.0000

year	date	rep	trt	depth cm	S_1820 kg/ha	Se1960 ug/ml	Se1960 kg/ha	Sr4215 ug/ml	Sr4215 kg/ha	Ti3349 ug/ml
2006	4-May	3 C		15	-0.0403	0.0000	0.0000	0.0060	-0.0028	0.0000
2006	4-May	1 T		15	-1.0407	0.0048	-0.0024	0.0803	-0.0394	0.0000

2006	4-May	2 T	15	-0.6444	0.0000	0.0000	0.0199	-0.0098	0.0026
2006	4-May	3 T	15	-0.1952	0.0000	0.0000	0.0458	-0.0225	0.0000
2006	4-May	1 C	30	-0.0322	0.0000	0.0000	0.0120	-0.0055	0.0000
2006	4-May	2 C	30	-0.2176	0.0000	0.0000	0.0054	-0.0025	0.0000
2006	4-May	3 C	30	-0.0191	0.0011	-0.0005	0.0127	-0.0058	0.0000
2006	4-May	1 T	30	-0.0158	0.0000	0.0000	0.0065	-0.0031	0.0000
2006	4-May	2 T	30	-0.1404	0.0068	-0.0032	0.0363	-0.0173	0.0000
2006	4-May	3 T	30	-0.0294	0.0055	-0.0026	0.0199	-0.0095	0.0000
2006	4-May	1 C	60	-0.0102	0.0000	0.0000	0.0206	-0.0094	0.0000
2006	4-May	2 C	60	-0.0321	0.0000	0.0000	0.0031	-0.0014	0.0000
2006	4-May	3 C	60	-0.0033	0.0000	0.0000	0.0078	-0.0036	0.0000
2006	4-May	1 T	60	-0.0028	0.0000	0.0000	0.0134	-0.0062	0.0000
2006	4-May	2 T	60	-0.0142	0.0000	0.0000	0.0572	-0.0262	0.0000
2006	4-May	3 T	60	-0.0106	0.0062	-0.0028	0.0184	-0.0084	0.0000
2006	4-May	1 C	120	-0.0074	0.0000	0.0000	0.0134	-0.0058	0.0000
2006	4-May	2 C	120	-0.0081	0.0000	0.0000	0.0110	-0.0048	0.0000
2006	4-May	3 C	120	-0.0404	0.0047	-0.0020	0.0269	-0.0118	0.0000
2006	4-May	1 T	120	-0.0026	0.0000	0.0000	0.0080	-0.0034	0.0000
2006	4-May	2 T	120						
2006	4-May	3 T	120	-0.0040	0.0000	0.0000	0.0072	-0.0031	0.0000
2006	4-May	1 C	200	-0.0016	0.0000	0.0000	0.0008	-0.0001	0.0000
2006	4-May	2 C	200	-0.0018	0.0035	-0.0003	0.0021	-0.0002	0.0000
2006	4-May	3 C	200	-0.0032	0.0000	0.0000	0.0030	-0.0003	0.0000
2006	4-May	1 T	200	0.0000	0.0000	0.0000	0.0006	0.0000	0.0000
2006	4-May	2 T	200						
2006	4-May	3 T	200	0.0000	0.0000	0.0000	0.0038	0.0000	0.0030
2006	12-May	1 C	15	-0.0750	0.0000	0.0000	0.0101	-0.0088	0.0000
2006	12-May	2 C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	3 C	15	-0.0659	0.0000	0.0000	0.0062	-0.0055	0.0000
2006	12-May	1 T	15	-117.2813	0.0032	-0.0028	0.2547	-0.2217	0.0000
2006	12-May	2 T	15	-0.9549	0.0000	0.0000	0.0219	-0.0190	0.0049
2006	12-May	3 T	15	-0.7390	0.0000	0.0000	0.0937	-0.0815	0.0000
2006	12-May	1 C	30	-0.0270	0.0000	0.0000	0.0215	-0.0187	0.0000
2006	12-May	2 C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	3 C	30	-0.0184	0.0014	-0.0012	0.0119	-0.0103	0.0000
2006	12-May	1 T	30	-0.1950	0.0000	0.0000	0.0148	-0.0129	0.0000
2006	12-May	2 T	30	-0.2415	0.0000	0.0000	0.0393	-0.0342	0.0000
2006	12-May	3 T	30	-0.0645	0.0000	0.0000	0.0178	-0.0154	0.0000
2006	12-May	1 C	60	-0.0171	0.0000	0.0000	0.0169	-0.0147	0.0000
2006	12-May	2 C	60	-0.0164	0.0000	0.0000	0.0113	-0.0098	0.0000
2006	12-May	3 C	60	0.0000	0.0000	0.0000	0.0061	-0.0053	0.0000
2006	12-May	1 T	60	-0.0284	0.0000	0.0000	0.0136	-0.0117	0.0000
2006	12-May	2 T	60	-0.0116	0.0000	0.0000	0.0509	-0.0440	0.0000
2006	12-May	3 T	60	-0.0162	0.0000	0.0000	0.0167	-0.0145	0.0000

year	date	rep	trt	depth cm	S_1820 kg/ha	Se1960 ug/ml	Se1960 kg/ha	Sr4215 ug/ml	Sr4215 kg/ha	Ti3349 ug/ml
2006	12-May	1	C	120	-0.0112	0.0000	0.0000	0.0115	-0.0101	0.0000
2006	12-May	2	C	120						

2006	12-May	3	C	120	-0.0011	0.0000	0.0000	0.0178	-0.0157	0.0000
2006	12-May	1	T	120	-0.0146	0.0000	0.0000	0.0071	-0.0065	0.0000
2006	12-May	2	T	120	-0.0303	0.0000	0.0000	0.0233	-0.0213	0.0043
2006	12-May	3	T	120	-0.0086	0.0000	0.0000	0.0049	-0.0045	0.0000
2006	12-May	1	C	200	-0.0007	0.0000	0.0000	0.0007	-0.0006	0.0000
2006	12-May	2	C	200	-0.0126	0.0000	0.0000	0.0020	-0.0019	0.0064
2006	12-May	3	C	200	-0.0187	0.0000	0.0000	0.0023	-0.0021	0.0000
2006	12-May	1	T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	2	T	200	-0.0255	0.0000	0.0000	0.0044	-0.0023	0.0044
2006	12-May	3	T	200	-0.0338	0.0000	0.0000	0.0054	-0.0028	0.0000
2006	19-May	1	C	15	-0.0264	0.0214	-0.0060	0.0095	-0.0026	0.0000
2006	19-May	2	C	15	-0.7070	0.0213	-0.0059	0.0142	-0.0040	0.0000
2006	19-May	3	C	15	-0.1050	0.0305	-0.0085	0.0145	-0.0040	0.0000
2006	19-May	1	T	15	-4.3657	0.0000	0.0000	0.0556	-0.0157	0.0000
2006	19-May	2	T	15	-5.5333	0.0206	-0.0058	0.0448	-0.0126	0.0000
2006	19-May	3	T	15	-0.0943	0.0274	-0.0077	0.0756	-0.0213	0.0000
2006	19-May	1	C	30	-0.0107	0.0211	-0.0060	0.0242	-0.0069	0.0000
2006	19-May	2	C	30	-0.0555	0.0000	0.0000	0.0617	-0.0177	0.0002
2006	19-May	3	C	30	-0.0127	0.0000	0.0000	0.0167	-0.0048	0.0062
2006	19-May	1	T	30	-0.0203	0.0000	0.0000	0.0306	-0.0090	0.0000
2006	19-May	2	T	30	-0.0889	0.0296	-0.0087	0.0384	-0.0113	0.0000
2006	19-May	3	T	30	-0.0199	0.0000	0.0000	0.0688	-0.0202	0.0047
2006	19-May	1	C	60	-0.0231	0.0103	-0.0032	0.0172	-0.0053	0.0000
2006	19-May	2	C	60	-0.0177	0.0256	-0.0079	0.0123	-0.0038	0.0000
2006	19-May	3	C	60	-0.0098	0.0221	-0.0068	0.0068	-0.0021	0.0000
2006	19-May	1	T	60	-0.0069	0.0000	0.0000	0.0153	-0.0051	0.0000
2006	19-May	2	T	60	-0.0113	0.0237	-0.0079	0.0447	-0.0148	0.0000
2006	19-May	3	T	60	-0.0113	0.0226	-0.0075	0.0168	-0.0056	0.0000
2006	19-May	1	C	120	-0.0109	0.0199	-0.0071	0.0166	-0.0059	0.0000
2006	19-May	2	C	120	-0.0139	0.0324	-0.0116	0.0139	-0.0050	0.0000
2006	19-May	3	C	120	-0.0069	0.0000	0.0000	0.0191	-0.0068	0.0079
2006	19-May	1	T	120	-0.0167	0.0039	-0.0015	0.0074	-0.0029	0.0000
2006	19-May	2	T	120	-0.0271	0.0000	0.0000	0.0229	-0.0088	0.0000
2006	19-May	3	T	120	-0.0130	0.0229	-0.0088	0.0060	-0.0023	0.0000
2006	19-May	1	C	200	-0.0156	0.0275	-0.0104	0.0006	-0.0002	0.0000
2006	19-May	2	C	200	-0.0137	0.0310	-0.0118	0.0024	-0.0009	0.0000
2006	19-May	3	C	200	-0.0112	0.0239	-0.0091	0.0020	-0.0008	0.0000
2006	19-May	1	T	200	-0.0061	0.0080	-0.0033	0.0005	-0.0002	0.0000
2006	19-May	2	T	200	-0.0106	0.0294	-0.0123	0.0031	-0.0013	0.0000
2006	19-May	3	T	200	-0.0076	0.0000	0.0000	0.0041	-0.0017	0.0000
2006	27-May	1	C	15	-0.7719	0.0270	-0.0185	0.0124	-0.0085	0.0000
2006	27-May	2	C	15	-0.0608	0.0238	-0.0163	0.0124	-0.0085	0.0000
2006	27-May	3	C	15	-0.0677	0.0233	-0.0160	0.0095	-0.0065	0.0000
2006	27-May	1	T	15						
2006	27-May	2	T	15	-15.0181	0.0257	-0.0178	0.0573	-0.0397	0.0000

year	date	rep	trt	depth	S_1820	Se1960	Se1960	Sr4215	Sr4215	Ti3349
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	27-May	3	T	15	-0.0324	0.0246	-0.0171	0.0240	-0.0167	0.0000
2006	27-May	1	C	30	-0.1218	0.0214	-0.0144	0.0353	-0.0237	0.0000

2006	27-May	2 C	30	-0.0090	0.0000	0.0000	0.0292	-0.0195	0.0000
2006	27-May	3 C	30	-0.0376	0.0175	-0.0117	0.0153	-0.0102	0.0000
2006	27-May	1 T	30	-0.0294	0.0287	-0.0193	0.0509	-0.0344	0.0000
2006	27-May	2 T	30	-0.1776	0.0216	-0.0146	0.0391	-0.0264	0.0000
2006	27-May	3 T	30	-0.0250	0.0281	-0.0189	0.0028	-0.0019	0.0000
2006	27-May	1 C	60	-0.0338	0.0334	-0.0211	0.0131	-0.0083	0.0000
2006	27-May	2 C	60	-0.0191	0.0306	-0.0194	0.0185	-0.0117	0.0000
2006	27-May	3 C	60	-0.0378	0.0005	-0.0003	0.0071	-0.0045	0.0000
2006	27-May	1 T	60	-0.0262	0.0228	-0.0142	0.0278	-0.0173	0.0000
2006	27-May	2 T	60	-0.0383	0.0259	-0.0161	0.0477	-0.0297	0.0000
2006	27-May	3 T	60	-0.0250	0.0245	-0.0153	0.0153	-0.0095	0.0000
2006	27-May	1 C	120	-0.0182	0.0237	-0.0129	0.0167	-0.0091	0.0000
2006	27-May	2 C	120	-0.0166	0.0200	-0.0109	0.0111	-0.0061	0.0000
2006	27-May	3 C	120	-0.0182	0.0319	-0.0174	0.0198	-0.0108	0.0000
2006	27-May	1 T	120	-0.0314	0.0151	-0.0075	0.0099	-0.0049	0.0000
2006	27-May	2 T	120	-0.3407	0.0262	-0.0130	0.0703	-0.0350	0.0000
2006	27-May	3 T	120	-0.0116	0.0240	-0.0120	0.0045	-0.0022	0.0000
2006	27-May	1 C	200	-0.0191	0.0180	-0.0082	0.0006	-0.0003	0.0000
2006	27-May	2 C	200	-0.0134	0.0285	-0.0130	0.0021	-0.0010	0.0000
2006	27-May	3 C	200	-0.0141	0.0271	-0.0124	0.0023	-0.0010	0.0000
2006	27-May	1 T	200	-0.0476	0.0015	-0.0006	0.0000	0.0000	0.0000
2006	27-May	2 T	200	-0.0391	0.0224	-0.0088	0.0912	-0.0359	0.0000
2006	27-May	3 T	200	-0.0281	0.0271	-0.0107	0.0050	-0.0020	0.0000
2006	1-Jun	1 C	15	-0.0489	0.0251	-0.0153	0.0170	-0.0104	0.0000
2006	1-Jun	2 C	15	-0.1132	0.0000	0.0000	0.0429	-0.0262	0.0002
2006	1-Jun	3 C	15	-0.0250	0.0273	-0.0167	0.0189	-0.0116	0.0000
2006	1-Jun	1 T	15	-12.9721	0.0000	0.0000	0.2033	-0.1227	0.0004
2006	1-Jun	2 T	15	-1.6313	0.0000	0.0000	0.0234	-0.0141	0.0016
2006	1-Jun	3 T	15	-0.4744	0.0167	-0.0101	0.0576	-0.0348	0.0000
2006	1-Jun	1 C	30	-0.0225	0.0000	0.0000	0.1073	-0.0632	0.0079
2006	1-Jun	2 C	30	-0.0145	0.0175	-0.0103	0.0129	-0.0076	0.0000
2006	1-Jun	3 C	30	-0.0214	0.0332	-0.0196	0.0007	-0.0004	0.0000
2006	1-Jun	1 T	30	-0.0342	0.0276	-0.0159	0.0645	-0.0373	0.0000
2006	1-Jun	2 T	30	-0.1802	0.0175	-0.0101	0.0325	-0.0188	0.0000
2006	1-Jun	3 T	30	-0.0745	0.0135	-0.0078	0.1520	-0.0879	0.0000
2006	1-Jun	1 C	60	-0.0184	0.0202	-0.0115	0.0218	-0.0125	0.0000
2006	1-Jun	2 C	60	0.0000	0.0000	0.0000	0.0130	-0.0074	0.0000
2006	1-Jun	3 C	60	-0.0413	0.0230	-0.0132	0.0077	-0.0044	0.0000
2006	1-Jun	1 T	60	-0.0223	0.0212	-0.0123	0.0269	-0.0156	0.0000
2006	1-Jun	2 T	60	-0.0256	0.0231	-0.0134	0.0746	-0.0432	0.0000
2006	1-Jun	3 T	60	-0.0203	0.0160	-0.0092	0.0135	-0.0078	0.0000
2006	1-Jun	1 C	120	-0.0196	0.0238	-0.0143	0.0170	-0.0102	0.0000
2006	1-Jun	2 C	120	-0.0081	0.0000	0.0000	0.0020	-0.0012	0.0026

year	date	rep	trt	depth cm	S_1820 kg/ha	Se1960 ug/ml	Se1960 kg/ha	Sr4215 ug/ml	Sr4215 kg/ha	Ti3349 ug/ml
2006	1-Jun	3 C		120	-0.0225	0.0252	-0.0151	0.0169	-0.0102	0.0000
2006	1-Jun	1 T		120	-0.0193	0.0247	-0.0154	0.0101	-0.0063	0.0000

2006	1-Jun	2 T	120	-0.0203	0.0249	-0.0155	0.0240	-0.0149	0.0000
2006	1-Jun	3 T	120	-0.0258	0.0156	-0.0097	0.0065	-0.0040	0.0000
2006	1-Jun	1 C	200	-0.1851	0.0000	0.0000	0.0055	-0.0035	0.0075
2006	1-Jun	2 C	200	-0.0589	0.0175	-0.0113	0.0080	-0.0052	0.0000
2006	1-Jun	3 C	200	-0.0209	0.0229	-0.0148	0.0021	-0.0014	0.0000
2006	1-Jun	1 T	200	-0.0173	0.0275	-0.0177	0.0006	-0.0004	0.0000
2006	1-Jun	2 T	200	-0.0228	0.0334	-0.0215	0.0032	-0.0021	0.0000
2006	1-Jun	3 T	200	-0.0375	0.0218	-0.0140	0.0041	-0.0027	0.0000
2006	9-Jun	1 C	15	-0.0379	0.0177	-0.0105	0.0202	-0.0120	0.0000
2006	9-Jun	2 C	15	-0.1529	0.0042	-0.0025	0.0081	-0.0048	0.0000
2006	9-Jun	3 C	15	-0.0572	0.0000	0.0000	0.0086	-0.0051	0.0000
2006	9-Jun	1 T	15	-8.2149	0.0000	0.0000	0.3019	-0.1810	0.0000
2006	9-Jun	2 T	15	-7.0567	0.0203	-0.0122	0.0865	-0.0518	0.0000
2006	9-Jun	3 T	15	-0.2542	0.0419	-0.0252	0.0842	-0.0505	0.0000
2006	9-Jun	1 C	30	-0.0313	0.0245	-0.0144	0.0980	-0.0577	0.0000
2006	9-Jun	2 C	30	-0.1487	0.0000	0.0000	0.0152	-0.0090	0.0042
2006	9-Jun	3 C	30	-0.0121	0.0059	-0.0035	0.0183	-0.0108	0.0000
2006	9-Jun	1 T	30	-0.0334	0.0300	-0.0176	0.0573	-0.0337	0.0000
2006	9-Jun	2 T	30	-0.1854	0.0374	-0.0220	0.0285	-0.0168	0.0000
2006	9-Jun	3 T	30	-0.0560	0.0345	-0.0203	0.1259	-0.0740	0.0000
2006	9-Jun	1 C	60	-0.0206	0.0313	-0.0177	0.0317	-0.0179	0.0000
2006	9-Jun	2 C	60	-0.0030	0.0000	0.0000	0.0136	-0.0077	0.0000
2006	9-Jun	3 C	60	0.0000	0.0011	-0.0006	0.0071	-0.0040	0.0000
2006	9-Jun	1 T	60	-0.0244	0.0257	-0.0140	0.0271	-0.0147	0.0000
2006	9-Jun	2 T	60	-0.0177	0.0064	-0.0035	0.0922	-0.0501	0.0000
2006	9-Jun	3 T	60	-0.0093	0.0171	-0.0093	0.0114	-0.0062	0.0000
2006	9-Jun	1 C	120	-0.0174	0.0147	-0.0073	0.0173	-0.0085	0.0000
2006	9-Jun	2 C	120	0.0000	0.0002	-0.0001	0.0139	-0.0069	0.0000
2006	9-Jun	3 C	120	-0.0042	0.0025	-0.0012	0.0157	-0.0078	0.0000
2006	9-Jun	1 T	120	-0.0107	0.0262	-0.0122	0.0085	-0.0040	0.0000
2006	9-Jun	2 T	120	-0.0215	0.0194	-0.0091	0.0235	-0.0110	0.0000
2006	9-Jun	3 T	120	-0.0103	0.0228	-0.0107	0.0059	-0.0028	0.0000
2006	9-Jun	1 C	200	-0.0021	0.0000	0.0000	0.0012	-0.0006	0.0000
2006	9-Jun	2 C	200	-0.0023	0.0000	0.0000	0.0022	-0.0010	0.0000
2006	9-Jun	3 C	200	-0.0011	0.0020	-0.0009	0.0020	-0.0009	0.0000
2006	9-Jun	1 T	200	-0.0123	0.0112	-0.0055	0.0005	-0.0002	0.0000
2006	9-Jun	2 T	200	-0.0203	0.0315	-0.0155	0.0028	-0.0014	0.0000
2006	9-Jun	3 T	200	-0.0158	0.0336	-0.0166	0.0041	-0.0020	0.0000
2006	15-Jun	1 C	15	-0.0316	0.0000	0.0000	0.0170	-0.0076	0.0000
2006	15-Jun	2 C	15	-0.1635	0.0000	0.0000	0.0093	-0.0042	0.0019
2006	15-Jun	3 C	15	-0.0334	0.0046	-0.0020	0.0118	-0.0053	0.0000
2006	15-Jun	1 T	15	-5.1473	0.0000	0.0000	0.1895	-0.0891	0.0023
2006	15-Jun	2 T	15	-3.4752	0.0056	-0.0026	0.0607	-0.0286	0.0000
2006	15-Jun	3 T	15	-0.1345	0.0005	-0.0002	0.0558	-0.0262	0.0000

year	date	rep	trt	depth cm	S_1820 kg/ha	Se1960 ug/ml	Se1960 kg/ha	Sr4215 ug/ml	Sr4215 kg/ha	Ti3349 ug/ml
2006	15-Jun	1	C	30	-0.0084	0.0000	0.0000	0.1233	-0.0562	0.0000
2006	15-Jun	2	C	30	-0.0617	0.0000	0.0000	0.0553	-0.0252	0.0068

2006	15-Jun	3	C	30	-0.0049	0.0000	0.0000	0.0180	-0.0082	0.0000
2006	15-Jun	1	T	30	-0.0044	0.0042	-0.0020	0.0490	-0.0230	0.0000
2006	15-Jun	2	T	30	-0.1743	0.0041	-0.0019	0.0350	-0.0164	0.0000
2006	15-Jun	3	T	30	-0.0380	0.0000	0.0000	0.1728	-0.0812	0.0097
2006	15-Jun	1	C	60	-0.0025	0.0000	0.0000	0.0370	-0.0170	0.0000
2006	15-Jun	2	C	60	-0.0025	0.0000	0.0000	0.0178	-0.0082	0.0000
2006	15-Jun	3	C	60	0.0000	0.0024	-0.0011	0.0076	-0.0035	0.0000
2006	15-Jun	1	T	60	-0.0167	0.0000	0.0000	0.0248	-0.0118	0.0000
2006	15-Jun	2	T	60	-0.0084	0.0000	0.0000	0.0990	-0.0469	0.0000
2006	15-Jun	3	T	60	0.0000	0.0009	-0.0004	0.0107	-0.0051	0.0000
2006	15-Jun	1	C	120	-0.0025	0.0000	0.0000	0.0185	-0.0086	0.0000
2006	15-Jun	2	C	120	-0.0005	0.0015	-0.0007	0.0158	-0.0073	0.0000
2006	15-Jun	3	C	120	-0.0030	0.0000	0.0000	0.0189	-0.0088	0.0000
2006	15-Jun	1	T	120	-0.0022	0.0000	0.0000	0.0084	-0.0042	0.0000
2006	15-Jun	2	T	120	-0.0081	0.0000	0.0000	0.0222	-0.0110	0.0000
2006	15-Jun	3	T	120	-0.0040	0.0255	-0.0126	0.0061	-0.0030	0.0000
2006	15-Jun	1	C	200	-0.0040	0.0110	-0.0054	0.0006	-0.0003	0.0000
2006	15-Jun	2	C	200	-0.0062	0.0040	-0.0019	0.0021	-0.0010	0.0000
2006	15-Jun	3	C	200	-0.0143	0.0000	0.0000	0.0028	-0.0014	0.0000
2006	15-Jun	1	T	200	0.0000	0.0000	0.0000	0.0007	-0.0003	0.0000
2006	15-Jun	2	T	200	-0.0017	0.0000	0.0000	0.0030	-0.0014	0.0000
2006	15-Jun	3	T	200	0.0000	0.0000	0.0000	0.0041	-0.0019	0.0000
2006	22-Jun	1	C	15	-0.0909	0.0000	0.0000	0.0183	-0.0080	0.0000
2006	22-Jun	2	C	15	-0.2214	0.0027	-0.0012	0.0141	-0.0062	0.0000
2006	22-Jun	3	C	15	-0.0373	0.0000	0.0000	0.0088	-0.0039	0.0000
2006	22-Jun	1	T	15	-1.6326	0.0012	-0.0005	0.0490	-0.0217	0.0000
2006	22-Jun	2	T	15	-2.3057	0.0000	0.0000	0.0219	-0.0097	0.0000
2006	22-Jun	3	T	15	-0.1377	0.0022	-0.0010	0.0690	-0.0306	0.0000
2006	22-Jun	1	C	30	-0.0029	0.0025	-0.0010	0.0754	-0.0302	0.0000
2006	22-Jun	2	C	30	-0.0681	0.0000	0.0000	0.0185	-0.0074	0.0000
2006	22-Jun	3	C	30	-0.0065	0.0000	0.0000	0.0181	-0.0073	0.0000
2006	22-Jun	1	T	30	-0.0124	0.0000	0.0000	0.0467	-0.0189	0.0000
2006	22-Jun	2	T	30	-0.1574	0.0000	0.0000	0.0386	-0.0156	0.0000
2006	22-Jun	3	T	30	-0.0269	0.0000	0.0000	0.1366	-0.0552	0.0021
2006	22-Jun	1	C	60	-0.0034	0.0000	0.0000	0.0392	-0.0140	0.0000
2006	22-Jun	2	C	60	-0.0312	0.0067	-0.0024	0.0242	-0.0086	0.0000
2006	22-Jun	3	C	60	0.0000	0.0000	0.0000	0.0089	-0.0032	0.0000
2006	22-Jun	1	T	60	-0.0082	0.0000	0.0000	0.0267	-0.0096	0.0000
2006	22-Jun	2	T	60	-0.0040	0.0000	0.0000	0.1122	-0.0405	0.0000
2006	22-Jun	3	T	60	-0.0221	0.0071	-0.0026	0.0139	-0.0050	0.0000
2006	22-Jun	1	C	120	-0.0010	0.0012	-0.0004	0.0173	-0.0059	0.0000
2006	22-Jun	2	C	120	-0.0025	0.0000	0.0000	0.0164	-0.0056	0.0000
2006	22-Jun	3	C	120	-0.0013	0.0020	-0.0007	0.0230	-0.0078	0.0000
2006	22-Jun	1	T	120	-0.0040	0.0009	-0.0003	0.0085	-0.0032	0.0000

year	date	rep	trt	depth cm	S_1820 kg/ha	Se1960 ug/ml	Se1960 kg/ha	Sr4215 ug/ml	Sr4215 kg/ha	Ti3349 ug/ml
2006	22-Jun	2	T	120	-0.0025	0.0000	0.0000	0.0208	-0.0077	0.0000
2006	22-Jun	3	T	120	0.0000	0.0000	0.0000	0.0068	-0.0025	0.0000

2006	22-Jun	1	C	200	-0.0018	0.0000	0.0000	0.0007	-0.0003	0.0000
2006	22-Jun	2	C	200	-0.0013	0.0000	0.0000	0.0023	-0.0009	0.0000
2006	22-Jun	3	C	200	-0.0033	0.0000	0.0000	0.0020	-0.0008	0.0000
2006	22-Jun	1	T	200	0.0000	0.0000	0.0000	0.0006	-0.0003	0.0000
2006	22-Jun	2	T	200	-0.0031	0.0000	0.0000	0.0026	-0.0012	0.0000
2006	22-Jun	3	T	200	-0.0038	0.0000	0.0000	0.0044	-0.0020	0.0000
2006	29-Jun	1	C	15	-0.5132	0.0000	0.0000	0.0099	-0.0087	0.0000
2006	29-Jun	2	C	15	-0.9529	0.0000	0.0000	0.0243	-0.0216	0.0000
2006	29-Jun	3	C	15	-0.1385	0.0055	-0.0049	0.0134	-0.0119	0.0000
2006	29-Jun	1	T	15	-2.8843	0.0000	0.0000	0.0145	-0.0132	0.0000
2006	29-Jun	2	T	15	-1.8740	0.0000	0.0000	0.0147	-0.0134	0.0007
2006	29-Jun	3	T	15	-0.8281	0.0000	0.0000	0.0245	-0.0224	0.0000
2006	29-Jun	1	C	30	-0.0389	0.0000	0.0000	0.0634	-0.0569	0.0000
2006	29-Jun	2	C	30	-0.2675	0.0000	0.0000	0.0395	-0.0354	0.0000
2006	29-Jun	3	C	30	-0.0081	0.0011	-0.0009	0.0208	-0.0187	0.0000
2006	29-Jun	1	T	30	-0.0152	0.0026	-0.0024	0.0277	-0.0257	0.0000
2006	29-Jun	2	T	30	-0.2768	0.0000	0.0000	0.0348	-0.0323	0.0000
2006	29-Jun	3	T	30	-0.0681	0.0008	-0.0007	0.0770	-0.0715	0.0000
2006	29-Jun	1	C	60	-0.0182	0.0033	-0.0030	0.0417	-0.0376	0.0000
2006	29-Jun	2	C	60	-0.0123	0.0000	0.0000	0.0275	-0.0248	0.0000
2006	29-Jun	3	C	60	0.0000	0.0000	0.0000	0.0059	-0.0054	0.0000
2006	29-Jun	1	T	60	-0.0120	0.0093	-0.0085	0.0308	-0.0281	0.0000
2006	29-Jun	2	T	60	-0.0276	0.0003	-0.0002	0.1252	-0.1145	0.0000
2006	29-Jun	3	T	60	-0.0150	0.0111	-0.0102	0.0177	-0.0162	0.0000
2006	29-Jun	1	C	120	0.0000	0.0000	0.0000	0.0172	-0.0148	0.0000
2006	29-Jun	2	C	120	-0.0061	0.0000	0.0000	0.0172	-0.0148	0.0000
2006	29-Jun	3	C	120	0.0000	0.0000	0.0000	0.0205	-0.0176	0.0000
2006	29-Jun	1	T	120	-0.0311	0.0000	0.0000	0.0098	-0.0081	0.0000
2006	29-Jun	2	T	120	0.0000	0.0000	0.0000	0.0198	-0.0163	0.0000
2006	29-Jun	3	T	120	-0.0031	0.0000	0.0000	0.0077	-0.0064	0.0000
2006	29-Jun	1	C	200	-0.0056	0.0029	-0.0023	0.0007	-0.0005	0.0000
2006	29-Jun	2	C	200	-0.0062	0.0000	0.0000	0.0021	-0.0017	0.0000
2006	29-Jun	3	C	200	-0.0460	0.0127	-0.0100	0.0036	-0.0028	0.0000
2006	29-Jun	1	T	200	-0.0026	0.0000	0.0000	0.0007	-0.0005	0.0000
2006	29-Jun	2	T	200	-0.0114	0.0000	0.0000	0.0028	-0.0018	0.0000
2006	29-Jun	3	T	200	-0.0169	0.0000	0.0000	0.0043	-0.0028	0.0000
2006	5-Jul	1	C	15	-0.6139	0.0074	-0.0043	0.0055	-0.0032	0.0000
2006	5-Jul	2	C	15	-0.6843	0.0000	0.0000	0.0109	-0.0064	0.0000
2006	5-Jul	3	C	15	-0.1149	0.0000	0.0000	0.0081	-0.0047	0.0000
2006	5-Jul	1	T	15	-2.5958	0.0000	0.0000	0.0101	-0.0061	0.0042
2006	5-Jul	2	T	15	-2.4514	0.0000	0.0000	0.0072	-0.0043	0.0019
2006	5-Jul	3	T	15	-1.3406	0.0000	0.0000	0.0072	-0.0043	0.0000
2006	5-Jul	1	C	30	-0.0057	0.0000	0.0000	0.0337	-0.0190	0.0000
2006	5-Jul	2	C	30	-0.3307	0.0000	0.0000	0.0220	-0.0124	0.0000

year	date	rep	trt	depth cm	S_1820 kg/ha	Se1960 ug/ml	Se1960 kg/ha	Sr4215 ug/ml	Sr4215 kg/ha	Ti3349 ug/ml
2006	5-Jul	3	C	30	-0.0460	0.0000	0.0000	0.0191	-0.0108	0.0000
2006	5-Jul	1	T	30	-0.0328	0.0000	0.0000	0.0131	-0.0076	0.0000

2006	5-Jul	2 T	30	-0.1792	0.0000	0.0000	0.0295	-0.0170	0.0000
2006	5-Jul	3 T	30	-0.0841	0.0000	0.0000	0.0241	-0.0139	0.0000
2006	5-Jul	1 C	60	-0.0011	0.0000	0.0000	0.0427	-0.0225	0.0000
2006	5-Jul	2 C	60	-0.0086	0.0000	0.0000	0.0268	-0.0141	0.0000
2006	5-Jul	3 C	60	0.0000	0.0000	0.0000	0.0096	-0.0050	0.0000
2006	5-Jul	1 T	60	-0.0121	0.0000	0.0000	0.0226	-0.0122	0.0098
2006	5-Jul	2 T	60	-0.0569	0.0000	0.0000	0.1257	-0.0681	0.0000
2006	5-Jul	3 T	60	0.0000	0.0000	0.0000	0.0333	-0.0180	0.0000
2006	5-Jul	1 C	120	-0.0008	0.0000	0.0000	0.0191	-0.0091	0.0000
2006	5-Jul	2 C	120	-0.0040	0.0000	0.0000	0.0177	-0.0085	0.0017
2006	5-Jul	3 C	120	-0.0299	0.0000	0.0000	0.0216	-0.0103	0.0051
2006	5-Jul	1 T	120	0.0000	0.0000	0.0000	0.0095	-0.0046	0.0082
2006	5-Jul	2 T	120	0.0000	0.0008	-0.0004	0.0229	-0.0110	0.0000
2006	5-Jul	3 T	120	0.0000	0.0000	0.0000	0.0076	-0.0037	0.0000
2006	5-Jul	1 C	200	0.0000	0.0057	-0.0027	0.0005	-0.0002	0.0000
2006	5-Jul	2 C	200	0.0000	0.0000	0.0000	0.0020	-0.0009	0.0000
2006	5-Jul	3 C	200	-0.0028	0.0000	0.0000	0.0022	-0.0010	0.0000
2006	5-Jul	1 T	200	0.0000	0.0000	0.0000	0.0004	-0.0002	0.0000
2006	5-Jul	2 T	200	0.0000	0.0000	0.0000	0.0026	-0.0013	0.0000
2006	5-Jul	3 T	200	-0.0127	0.0000	0.0000	0.0055	-0.0027	0.0000
2006	13-Jul	1 C	15						
2006	13-Jul	2 C	15	-2.3883	0.0000	0.0000	0.0054	-0.0065	0.0000
2006	13-Jul	3 C	15	-0.4297	0.0000	0.0000	0.0016	-0.0019	0.0000
2006	13-Jul	1 T	15	-3.9687	0.0000	0.0000	0.0076	-0.0094	0.0046
2006	13-Jul	2 T	15	-6.0217	0.0000	0.0000	0.0077	-0.0094	0.0000
2006	13-Jul	3 T	15	-2.3148	0.0094	-0.0115	0.0081	-0.0099	0.0000
2006	13-Jul	1 C	30	-0.0178	0.0000	0.0000	0.0302	-0.0355	0.0000
2006	13-Jul	2 C	30	-0.7425	0.0000	0.0000	0.0194	-0.0227	0.0000
2006	13-Jul	3 C	30	-0.0154	0.0020	-0.0024	0.0157	-0.0185	0.0000
2006	13-Jul	1 T	30	-0.0477	0.0000	0.0000	0.0068	-0.0082	0.0000
2006	13-Jul	2 T	30	-0.8202	0.0000	0.0000	0.0182	-0.0220	0.0000
2006	13-Jul	3 T	30	-0.0846	0.0000	0.0000	0.0088	-0.0106	0.0000
2006	13-Jul	1 C	60	0.0000	0.0000	0.0000	0.0436	-0.0496	0.0000
2006	13-Jul	2 C	60	-0.0178	0.0000	0.0000	0.0224	-0.0254	0.0000
2006	13-Jul	3 C	60	0.0000	0.0000	0.0000	0.0127	-0.0144	0.0000
2006	13-Jul	1 T	60	-0.0119	0.0000	0.0000	0.0276	-0.0315	0.0000
2006	13-Jul	2 T	60	-0.0236	0.0000	0.0000	0.1057	-0.1205	0.0000
2006	13-Jul	3 T	60	-0.0033	0.0000	0.0000	0.0415	-0.0473	0.0000
2006	13-Jul	1 C	120	0.0000	0.0000	0.0000	0.0169	-0.0177	0.0000
2006	13-Jul	2 C	120	-0.0786	0.0000	0.0000	0.0231	-0.0243	0.0000
2006	13-Jul	3 C	120	-0.0132	0.0000	0.0000	0.0179	-0.0188	0.0019
2006	13-Jul	1 T	120	0.0000	0.0000	0.0000	0.0075	-0.0076	0.0000
2006	13-Jul	2 T	120	0.0000	0.0000	0.0000	0.0205	-0.0207	0.0000
2006	13-Jul	3 T	120	0.0000	0.0000	0.0000	0.0073	-0.0074	0.0000

year	date	rep	trt	depth cm	S_1820 kg/ha	Se1960 ug/ml	Se1960 kg/ha	Sr4215 ug/ml	Sr4215 kg/ha	Ti3349 ug/ml
2006	13-Jul	1	C	200	0.0000	0.0000	0.0000	0.0003	-0.0003	0.0000
2006	13-Jul	2	C	200	-0.0036	0.0000	0.0000	0.0025	-0.0026	0.0000

2006	13-Jul	3	C	200	0.0000	0.0000	0.0000	0.0021	-0.0022	0.0000
2006	13-Jul	1	T	200	0.0000	0.0000	0.0000	0.0003	-0.0003	0.0000
2006	13-Jul	2	T	200	0.0000	0.0000	0.0000	0.0026	-0.0025	0.0000
2006	13-Jul	3	T	200	0.0000	0.0000	0.0000	0.0043	-0.0041	0.0000
2006	20-Jul	1	C	15	-0.4550	0.0000	0.0000	0.0004	-0.0002	0.0000
2006	20-Jul	2	C	15						
2006	20-Jul	3	C	15	-0.1597	0.0000	0.0000	0.0009	-0.0004	0.0000
2006	20-Jul	1	T	15	-1.5789	0.0000	0.0000	0.0085	-0.0035	0.0013
2006	20-Jul	2	T	15	-1.3749	0.0000	0.0000	0.0063	-0.0026	0.0000
2006	20-Jul	3	T	15	-0.4936	0.0000	0.0000	0.0036	-0.0015	0.0000
2006	20-Jul	1	C	30	0.0000	0.0000	0.0000	0.0016	-0.0007	0.0000
2006	20-Jul	2	C	30	-0.1783	0.0000	0.0000	0.0031	-0.0013	0.0009
2006	20-Jul	3	C	30	-0.0092	0.0000	0.0000	0.0258	-0.0105	0.0000
2006	20-Jul	1	T	30	-0.0095	0.0000	0.0000	0.0011	-0.0005	0.0000
2006	20-Jul	2	T	30	-0.5069	0.0000	0.0000	0.0083	-0.0035	0.0000
2006	20-Jul	3	T	30	-0.0293	0.0000	0.0000	0.0032	-0.0013	0.0125
2006	20-Jul	1	C	60	0.0000	0.0000	0.0000	0.0393	-0.0166	0.0000
2006	20-Jul	2	C	60	-0.0449	0.0000	0.0000	0.0264	-0.0112	0.0000
2006	20-Jul	3	C	60	0.0000	0.0000	0.0000	0.0144	-0.0061	0.0000
2006	20-Jul	1	T	60	0.0000	0.0000	0.0000	0.0192	-0.0088	0.0000
2006	20-Jul	2	T	60	-0.0546	0.0000	0.0000	0.0950	-0.0433	0.0000
2006	20-Jul	3	T	60	0.0000	0.0000	0.0000	0.0790	-0.0360	0.0000
2006	20-Jul	1	C	120	0.0000	0.0000	0.0000	0.0160	-0.0076	0.0000
2006	20-Jul	2	C	120	0.0000	0.0000	0.0000	0.0189	-0.0090	0.0000
2006	20-Jul	3	C	120	-0.0007	0.0000	0.0000	0.0176	-0.0084	0.0037
2006	20-Jul	1	T	120	0.0000	0.0012	-0.0007	0.0091	-0.0049	0.0000
2006	20-Jul	2	T	120	-0.0034	0.0000	0.0000	0.0201	-0.0109	0.0000
2006	20-Jul	3	T	120	0.0000	0.0000	0.0000	0.0071	-0.0039	0.0000
2006	20-Jul	1	C	200	0.0000	0.0000	0.0000	0.0005	-0.0003	0.0000
2006	20-Jul	2	C	200	0.0000	0.0000	0.0000	0.0024	-0.0014	0.0000
2006	20-Jul	3	C	200	0.0000	0.0000	0.0000	0.0021	-0.0012	0.0000
2006	20-Jul	1	T	200	0.0000	0.0000	0.0000	0.0004	-0.0003	0.0000
2006	20-Jul	2	T	200	0.0000	0.0000	0.0000	0.0027	-0.0019	0.0000
2006	20-Jul	3	T	200	0.0000	0.0000	0.0000	0.0041	-0.0029	0.0000
2006	26-Jul	1	C	15	-0.7644	0.0000	0.0000	0.0006	-0.0004	0.0000
2006	26-Jul	2	C	15						
2006	26-Jul	3	C	15	-0.3003	0.0000	0.0000	0.0010	-0.0008	0.0000
2006	26-Jul	1	T	15	-2.5375	0.0000	0.0000	0.0101	-0.0078	0.0000
2006	26-Jul	2	T	15	-1.8560	0.0000	0.0000	0.0047	-0.0037	0.0035
2006	26-Jul	3	T	15	-0.7056	0.0000	0.0000	0.0044	-0.0034	0.0000
2006	26-Jul	1	C	30	-0.0089	0.0101	-0.0074	0.0048	-0.0035	0.0000
2006	26-Jul	2	C	30	-0.3089	0.0000	0.0000	0.0020	-0.0014	0.0000
2006	26-Jul	3	C	30	0.0000	0.0000	0.0000	0.0114	-0.0083	0.0000
2006	26-Jul	1	T	30	-0.0570	0.0000	0.0000	0.0014	-0.0010	0.0000

year	date	rep	trt	depth cm	S_1820 kg/ha	Se1960 ug/ml	Se1960 kg/ha	Sr4215 ug/ml	Sr4215 kg/ha	Ti3349 ug/ml
2006	26-Jul	2	T	30	-0.8458	0.0000	0.0000	0.0070	-0.0051	0.0000
2006	26-Jul	3	T	30	-0.0330	0.0000	0.0000	0.0021	-0.0015	0.0000

2006	26-Jul	1 C	60	0.0000	0.0000	0.0000	0.0325	-0.0208	0.0000
2006	26-Jul	2 C	60	-0.0728	0.0000	0.0000	0.0196	-0.0125	0.0000
2006	26-Jul	3 C	60	0.0000	0.0000	0.0000	0.0128	-0.0082	0.0000
2006	26-Jul	1 T	60	-0.0040	0.0000	0.0000	0.0224	-0.0137	0.0000
2006	26-Jul	2 T	60	-0.0264	0.0000	0.0000	0.0906	-0.0553	0.0000
2006	26-Jul	3 T	60	0.0000	0.0000	0.0000	0.0849	-0.0518	0.0000
2006	26-Jul	1 C	120	0.0000	0.0000	0.0000	0.0186	-0.0091	0.0000
2006	26-Jul	2 C	120	0.0000	0.0000	0.0000	0.0187	-0.0092	0.0000
2006	26-Jul	3 C	120	0.0000	0.0000	0.0000	0.0173	-0.0085	0.0000
2006	26-Jul	1 T	120	0.0000	0.0000	0.0000	0.0087	-0.0037	0.0000
2006	26-Jul	2 T	120	0.0000	0.0000	0.0000	0.0212	-0.0092	0.0000
2006	26-Jul	3 T	120	0.0000	0.0000	0.0000	0.0078	-0.0034	0.0000
2006	26-Jul	1 C	200	0.0000	0.0000	0.0000	0.0007	-0.0003	0.0000
2006	26-Jul	2 C	200	0.0000	0.0000	0.0000	0.0025	-0.0010	0.0000
2006	26-Jul	3 C	200	0.0000	0.0000	0.0000	0.0025	-0.0010	0.0000
2006	26-Jul	1 T	200	0.0000	0.0000	0.0000	0.0005	-0.0002	0.0000
2006	26-Jul	2 T	200	0.0000	0.0000	0.0000	0.0025	-0.0008	0.0000
2006	26-Jul	3 T	200	-0.0018	0.0039	-0.0012	0.0047	-0.0015	0.0000
2006	3-Aug	1 C	15	-0.1468	0.0000	0.0000	0.0009	-0.0001	0.0000
2006	3-Aug	2 C	15	-0.1524	0.0000	0.0000	0.0050	-0.0007	0.0040
2006	3-Aug	3 C	15	-0.0545	0.0000	0.0000	0.0014	-0.0002	0.0000
2006	3-Aug	1 T	15	-0.4245	0.0000	0.0000	0.0132	-0.0020	0.0044
2006	3-Aug	2 T	15	-0.3407	0.0000	0.0000	0.0056	-0.0009	0.0000
2006	3-Aug	3 T	15	-0.1280	0.0000	0.0000	0.0047	-0.0007	0.0000
2006	3-Aug	1 C	30	0.0000	0.0000	0.0000	0.0058	-0.0008	0.0000
2006	3-Aug	2 C	30	-0.0582	0.0000	0.0000	0.0023	-0.0003	0.0000
2006	3-Aug	3 C	30	-0.0008	0.0000	0.0000	0.0106	-0.0015	0.0000
2006	3-Aug	1 T	30	-0.0107	0.0000	0.0000	0.0018	-0.0003	0.0000
2006	3-Aug	2 T	30	-0.1220	0.0000	0.0000	0.0070	-0.0011	0.0000
2006	3-Aug	3 T	30	-0.0089	0.0000	0.0000	0.0011	-0.0002	0.0077
2006	3-Aug	1 C	60	0.0000	0.0000	0.0000	0.0273	-0.0039	0.0000
2006	3-Aug	2 C	60	-0.0013	0.0000	0.0000	0.0166	-0.0024	0.0000
2006	3-Aug	3 C	60	0.0000	0.0000	0.0000	0.0126	-0.0018	0.0000
2006	3-Aug	1 T	60	0.0000	0.0000	0.0000	0.0193	-0.0035	0.0024
2006	3-Aug	2 T	60	0.0000	0.0000	0.0000	0.0736	-0.0133	0.0000
2006	3-Aug	3 T	60	0.0000	0.0000	0.0000	0.0618	-0.0111	0.0000
2006	3-Aug	1 C	120	0.0000	0.0000	0.0000	0.0178	-0.0040	0.0000
2006	3-Aug	2 C	120	0.0000	0.0000	0.0000	0.0188	-0.0042	0.0000
2006	3-Aug	3 C	120	-0.0039	0.0000	0.0000	0.0188	-0.0042	0.0057
2006	3-Aug	1 T	120	0.0000	0.0000	0.0000	0.0090	-0.0028	0.0000
2006	3-Aug	2 T	120	0.0000	0.0000	0.0000	0.0198	-0.0061	0.0000
2006	3-Aug	3 T	120	0.0000	0.0000	0.0000	0.0078	-0.0024	0.0000
2006	3-Aug	1 C	200	-0.0265	0.0000	0.0000	0.0034	-0.0014	0.0000
2006	3-Aug	2 C	200	0.0000	0.0000	0.0000	0.0025	-0.0010	0.0000

year	date	rep	trt	depth cm	S_1820 kg/ha	Se1960 ug/ml	Se1960 kg/ha	Sr4215 ug/ml	Sr4215 kg/ha	Ti3349 ug/ml
2006	3-Aug	3 C		200	0.0000	0.0000	0.0000	0.0025	-0.0010	0.0000
2006	3-Aug	1 T		200	0.0000	0.0000	0.0000	0.0009	-0.0005	0.0000

2006	3-Aug	2 T	200	0.0000	0.0000	0.0000	0.0026	-0.0014	0.0000
2006	3-Aug	3 T	200	0.0000	0.0000	0.0000	0.0043	-0.0022	0.0000
2006	10-Aug	1 C	15	-0.1898	0.0000	0.0000	0.0034	-0.0006	0.0000
2006	10-Aug	2 C	15	-0.4852	0.0000	0.0000	0.0034	-0.0006	0.0000
2006	10-Aug	3 C	15	-0.1340	0.0324	-0.0057	0.0012	-0.0002	0.0000
2006	10-Aug	1 T	15	-0.3671	0.0000	0.0000	0.0148	-0.0026	0.0000
2006	10-Aug	2 T	15	-0.6486	0.0000	0.0000	0.0082	-0.0014	0.0000
2006	10-Aug	3 T	15	-0.1374	0.0000	0.0000	0.0063	-0.0011	0.0000
2006	10-Aug	1 C	30	-0.0023	0.0000	0.0000	0.0031	-0.0005	0.0000
2006	10-Aug	2 C	30	-0.0712	0.0000	0.0000	0.0018	-0.0003	0.0000
2006	10-Aug	3 C	30	-0.0010	0.0000	0.0000	0.0120	-0.0018	0.0037
2006	10-Aug	1 T	30	-0.0076	0.0000	0.0000	0.0016	-0.0002	0.0000
2006	10-Aug	2 T	30	-0.0891	0.0000	0.0000	0.0062	-0.0009	0.0000
2006	10-Aug	3 T	30	-0.0337	0.0000	0.0000	0.0017	-0.0003	0.0000
2006	10-Aug	1 C	60	0.0000	0.0000	0.0000	0.0227	-0.0024	0.0000
2006	10-Aug	2 C	60	-0.0034	0.0000	0.0000	0.0119	-0.0013	0.0000
2006	10-Aug	3 C	60	-0.0007	0.0119	-0.0013	0.0128	-0.0014	0.0000
2006	10-Aug	1 T	60	0.0000	0.0000	0.0000	0.0177	-0.0019	0.0000
2006	10-Aug	2 T	60	0.0000	0.0000	0.0000	0.0753	-0.0083	0.0000
2006	10-Aug	3 T	60	0.0000	0.0000	0.0000	0.0515	-0.0057	0.0000
2006	10-Aug	1 C	120	0.0000	0.0000	0.0000	0.0172	-0.0012	0.0000
2006	10-Aug	2 C	120	-0.0045	0.0070	-0.0005	0.0211	-0.0015	0.0000
2006	10-Aug	3 C	120	-0.0012	0.0134	-0.0009	0.0202	-0.0014	0.0000
2006	10-Aug	1 T	120	-0.0050	0.0000	0.0000	0.0111	-0.0010	0.0000
2006	10-Aug	2 T	120	0.0000	0.0000	0.0000	0.0198	-0.0019	0.0000
2006	10-Aug	3 T	120	0.0000	0.0000	0.0000	0.0073	-0.0007	0.0000
2006	10-Aug	1 C	200	0.0000	0.0000	0.0000	0.0008	-0.0001	0.0000
2006	10-Aug	2 C	200	-0.0015	0.0202	-0.0029	0.0026	-0.0004	0.0000
2006	10-Aug	3 C	200	-0.0134	0.0250	-0.0035	0.0050	-0.0007	0.0000
2006	10-Aug	1 T	200	0.0000	0.0000	0.0000	0.0010	-0.0002	0.0000
2006	10-Aug	2 T	200	0.0000	0.0000	0.0000	0.0028	-0.0005	0.0000
2006	10-Aug	3 T	200	0.0000	0.0000	0.0000	0.0047	-0.0009	0.0000
2006	17-Aug	1 C	15	-0.7041	0.0290	-0.0233	0.0008	-0.0006	0.0000
2006	17-Aug	2 C	15	-3.8312	0.0000	0.0000	0.0049	-0.0039	0.0040
2006	17-Aug	3 C	15	-0.6180	0.0152	-0.0122	0.0011	-0.0009	0.0000
2006	17-Aug	1 T	15	-1.2136	0.0169	-0.0133	0.0173	-0.0136	0.0000
2006	17-Aug	2 T	15	-1.9643	0.0306	-0.0241	0.0058	-0.0046	0.0000
2006	17-Aug	3 T	15	-0.4878	0.0257	-0.0203	0.0066	-0.0052	0.0000
2006	17-Aug	1 C	30	-0.0192	0.0297	-0.0212	0.0032	-0.0023	0.0000
2006	17-Aug	2 C	30	-0.3129	0.0232	-0.0166	0.0021	-0.0015	0.0000
2006	17-Aug	3 C	30	-0.0153	0.0165	-0.0118	0.0103	-0.0074	0.0000
2006	17-Aug	1 T	30	-0.0728	0.0155	-0.0106	0.0019	-0.0013	0.0000
2006	17-Aug	2 T	30	-0.7444	0.0000	0.0000	0.0128	-0.0087	0.0000
2006	17-Aug	3 T	30	-0.0582	0.0183	-0.0125	0.0014	-0.0009	0.0000

year	date	rep	trt	depth	S_1820	Se1960	Se1960	Sr4215	Sr4215	Ti3349
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	17-Aug	1 C		60	-0.0063	0.0264	-0.0149	0.0157	-0.0089	0.0000
2006	17-Aug	2 C		60	-0.0529	0.0097	-0.0055	0.0146	-0.0083	0.0000

2006	17-Aug	3	C	60	-0.0053	0.0361	-0.0204	0.0116	-0.0066	0.0000
2006	17-Aug	1	T	60	-0.0096	0.0315	-0.0155	0.0179	-0.0088	0.0000
2006	17-Aug	2	T	60	-0.0206	0.0212	-0.0104	0.0708	-0.0347	0.0000
2006	17-Aug	3	T	60	-0.0103	0.0226	-0.0111	0.0443	-0.0217	0.0000
2006	17-Aug	1	C	120	-0.0005	0.0171	-0.0044	0.0135	-0.0035	0.0000
2006	17-Aug	2	C	120	-0.0022	0.0267	-0.0068	0.0206	-0.0053	0.0000
2006	17-Aug	3	C	120	-0.0013	0.0000	0.0000	0.0206	-0.0053	0.0000
2006	17-Aug	1	T	120	-0.0015	0.0192	-0.0027	0.0088	-0.0012	0.0000
2006	17-Aug	2	T	120	-0.0029	0.0190	-0.0027	0.0207	-0.0029	0.0000
2006	17-Aug	3	T	120	-0.0008	0.0276	-0.0039	0.0071	-0.0010	0.0000
2006	17-Aug	1	C	200	-0.0084	0.0000	0.0000	0.0036	-0.0004	0.0000
2006	17-Aug	2	C	200	-0.0011	0.0210	-0.0022	0.0026	-0.0003	0.0000
2006	17-Aug	3	C	200	-0.0013	0.0250	-0.0026	0.0022	-0.0002	0.0000
2006	17-Aug	1	T	200	0.0000	0.0000	0.0000	0.0010	-0.0001	0.0000
2006	17-Aug	2	T	200	-0.0010	0.0000	0.0000	0.0030	-0.0004	0.0064
2006	17-Aug	3	T	200	-0.0016	0.0227	-0.0029	0.0045	-0.0006	0.0000
2006	24-Aug	1	C	15	-0.4771	0.0328	-0.0193	0.0011	-0.0006	0.0000
2006	24-Aug	2	C	15	-0.5732	0.0000	0.0000	0.0015	-0.0009	0.0057
2006	24-Aug	3	C	15	-0.2698	0.0243	-0.0143	0.0010	-0.0006	0.0000
2006	24-Aug	1	T	15	-0.9826	0.0128	-0.0075	0.0143	-0.0084	0.0000
2006	24-Aug	2	T	15	-1.2219	0.0242	-0.0142	0.0071	-0.0042	0.0000
2006	24-Aug	3	T	15	-0.3607	0.0354	-0.0208	0.0065	-0.0038	0.0000
2006	24-Aug	1	C	30	-0.0691	0.0294	-0.0167	0.0055	-0.0031	0.0000
2006	24-Aug	2	C	30	-0.2638	0.0369	-0.0209	0.0018	-0.0010	0.0000
2006	24-Aug	3	C	30	-0.0052	0.0301	-0.0171	0.0072	-0.0041	0.0000
2006	24-Aug	1	T	30	-0.0565	0.0354	-0.0201	0.0022	-0.0013	0.0000
2006	24-Aug	2	T	30	-0.8744	0.0150	-0.0085	0.0112	-0.0064	0.0000
2006	24-Aug	3	T	30	-0.0503	0.0306	-0.0175	0.0037	-0.0021	0.0000
2006	24-Aug	1	C	60	-0.0148	0.0272	-0.0148	0.0127	-0.0069	0.0000
2006	24-Aug	2	C	60	-0.0579	0.0215	-0.0117	0.0058	-0.0031	0.0000
2006	24-Aug	3	C	60	-0.0405	0.0285	-0.0155	0.0050	-0.0027	0.0000
2006	24-Aug	1	T	60	-0.0101	0.0188	-0.0102	0.0116	-0.0063	0.0000
2006	24-Aug	2	T	60	-0.0150	0.0322	-0.0175	0.0671	-0.0366	0.0000
2006	24-Aug	3	T	60	-0.0105	0.0259	-0.0141	0.0508	-0.0277	0.0000
2006	24-Aug	1	C	120	-0.0018	0.0216	-0.0110	0.0124	-0.0063	0.0000
2006	24-Aug	2	C	120	-0.0054	0.0290	-0.0148	0.0198	-0.0101	0.0000
2006	24-Aug	3	C	120	-0.0095	0.0197	-0.0100	0.0172	-0.0087	0.0000
2006	24-Aug	1	T	120	-0.0438	0.0000	0.0000	0.0108	-0.0056	0.0000
2006	24-Aug	2	T	120	-0.0101	0.0226	-0.0117	0.0224	-0.0116	0.0000
2006	24-Aug	3	T	120	-0.0002	0.0216	-0.0112	0.0074	-0.0038	0.0000
2006	24-Aug	1	C	200	-0.0075	0.0230	-0.0106	0.0010	-0.0005	0.0000
2006	24-Aug	2	C	200	-0.0082	0.0184	-0.0085	0.0026	-0.0012	0.0000
2006	24-Aug	3	C	200	-0.0503	0.0291	-0.0134	0.0054	-0.0025	0.0000
2006	24-Aug	1	T	200	-0.0033	0.0035	-0.0013	0.0007	-0.0002	0.0000

year	date	rep	trt	depth cm	S_1820 kg/ha	Se1960 ug/ml	Se1960 kg/ha	Sr4215 ug/ml	Sr4215 kg/ha	Ti3349 ug/ml
2006	24-Aug	2	T	200	-0.0071	0.0000	0.0000	0.0030	-0.0011	0.0023
2006	24-Aug	3	T	200	0.0000	0.0257	-0.0092	0.0046	-0.0017	0.0000

2006	31-Aug	1 C	15	-0.2723	0.0266	-0.0121	0.0016	-0.0007	0.0000
2006	31-Aug	2 C	15						
2006	31-Aug	3 C	15	-0.1620	0.0194	-0.0088	0.0016	-0.0007	0.0000
2006	31-Aug	1 T	15	-0.7609	0.0275	-0.0135	0.0149	-0.0074	0.0000
2006	31-Aug	2 T	15	-0.9464	0.0242	-0.0119	0.0107	-0.0053	0.0000
2006	31-Aug	3 T	15	-0.2744	0.0206	-0.0102	0.0061	-0.0030	0.0000
2006	31-Aug	1 C	30	-0.0336	0.0239	-0.0126	0.0019	-0.0010	0.0000
2006	31-Aug	2 C	30	-0.3561	0.0115	-0.0061	0.0021	-0.0011	0.0000
2006	31-Aug	3 C	30	-0.0473	0.0000	0.0000	0.0089	-0.0047	0.0000
2006	31-Aug	1 T	30	-0.0442	0.0337	-0.0192	0.0038	-0.0022	0.0000
2006	31-Aug	2 T	30	-0.9538	0.0197	-0.0112	0.0097	-0.0055	0.0000
2006	31-Aug	3 T	30						
2006	31-Aug	1 C	60	-0.3631	0.0108	-0.0070	0.0075	-0.0049	0.0000
2006	31-Aug	2 C	60	-0.0908	0.0283	-0.0184	0.0026	-0.0017	0.0000
2006	31-Aug	3 C	60	0.0000	0.0175	-0.0113	0.0084	-0.0054	0.0000
2006	31-Aug	1 T	60	-0.0102	0.0104	-0.0074	0.0122	-0.0087	0.0000
2006	31-Aug	2 T	60	-0.0120	0.0188	-0.0134	0.0718	-0.0509	0.0000
2006	31-Aug	3 T	60	-0.0176	0.0100	-0.0071	0.0326	-0.0232	0.0000
2006	31-Aug	1 C	120	-0.0050	0.0138	-0.0110	0.0139	-0.0111	0.0000
2006	31-Aug	2 C	120	-0.0073	0.0177	-0.0141	0.0176	-0.0140	0.0000
2006	31-Aug	3 C	120	-0.0096	0.0360	-0.0286	0.0175	-0.0139	0.0000
2006	31-Aug	1 T	120	-0.0071	0.0163	-0.0134	0.0067	-0.0055	0.0000
2006	31-Aug	2 T	120	-0.0106	0.0309	-0.0253	0.0229	-0.0187	0.0000
2006	31-Aug	3 T	120	-0.0629	0.0000	0.0000	0.0088	-0.0072	0.0000
2006	31-Aug	1 C	200	0.0000	0.0000	0.0000	0.0010	-0.0008	0.0000
2006	31-Aug	2 C	200	-0.0073	0.0167	-0.0133	0.0025	-0.0020	0.0000
2006	31-Aug	3 C	200	0.0000	0.0044	-0.0035	0.0021	-0.0017	0.0000
2006	31-Aug	1 T	200	0.0000	0.0000	0.0000	0.0009	-0.0007	0.0000
2006	31-Aug	2 T	200	0.0000	0.0000	0.0000	0.0028	-0.0021	0.0036
2006	31-Aug	3 T	200	-0.0053	0.0143	-0.0107	0.0045	-0.0034	0.0000
2006	7-Sep	1 C	15	-0.0063	0.0161	-0.0003	0.0061	-0.0001	0.0000
2006	7-Sep	2 C	15	-0.0106	0.0000	0.0000	0.0094	-0.0002	0.0070
2006	7-Sep	3 C	15	-0.0089	0.0312	-0.0005	0.0054	-0.0001	0.0000
2006	7-Sep	1 T	15	-0.0359	0.0142	-0.0003	0.0243	-0.0006	0.0000
2006	7-Sep	2 T	15	-0.0369	0.0225	-0.0005	0.0125	-0.0003	0.0000
2006	7-Sep	3 T	15	-0.0105	0.0117	-0.0003	0.0142	-0.0003	0.0000
2006	7-Sep	1 C	30	-0.0017	0.0114	-0.0003	0.0051	-0.0001	0.0000
2006	7-Sep	2 C	30	-0.0167	0.0000	0.0000	0.0104	-0.0003	0.0000
2006	7-Sep	3 C	30	-0.0015	0.0171	-0.0005	0.0115	-0.0003	0.0000
2006	7-Sep	1 T	30	-0.0020	0.0286	-0.0010	0.0049	-0.0002	0.0000
2006	7-Sep	2 T	30	-0.0352	0.0147	-0.0005	0.0097	-0.0004	0.0000
2006	7-Sep	3 T	30	-0.0038	0.0217	-0.0008	0.0061	-0.0002	0.0000
2006	7-Sep	1 C	60	-0.0013	0.0162	-0.0008	0.0089	-0.0004	0.0000
2006	7-Sep	2 C	60	-0.0047	0.0122	-0.0006	0.0115	-0.0005	0.0000

year	date	rep	trt	depth cm	S_1820 kg/ha	Se1960 ug/ml	Se1960 kg/ha	Sr4215 ug/ml	Sr4215 kg/ha	Ti3349 ug/ml
2006	7-Sep	3 C		60	-0.0014	0.0175	-0.0008	0.0101	-0.0005	0.0000
2006	7-Sep	1 T		60	0.0000	0.0317	-0.0022	0.0131	-0.0009	0.0000

2006	7-Sep	2 T	60	-0.0006	0.0239	-0.0017	0.0450	-0.0032	0.0000
2006	7-Sep	3 T	60	-0.0017	0.0139	-0.0010	0.0276	-0.0019	0.0000
2006	7-Sep	1 C	120	-0.0019	0.0223	-0.0028	0.0180	-0.0023	0.0000
2006	7-Sep	2 C	120	-0.0054	0.0209	-0.0026	0.0220	-0.0028	0.0000
2006	7-Sep	3 C	120	-0.0030	0.0140	-0.0018	0.0037	-0.0005	0.0000
2006	7-Sep	1 T	120	-0.0009	0.0165	-0.0030	0.0089	-0.0017	0.0000
2006	7-Sep	2 T	120	-0.0134	0.0006	-0.0001	0.0266	-0.0049	0.0000
2006	7-Sep	3 T	120	-0.0172	0.0000	0.0000	0.0112	-0.0021	0.0000
2006	7-Sep	1 C	200	-0.0048	0.0126	-0.0031	0.0024	-0.0006	0.0000
2006	7-Sep	2 C	200	-0.0054	0.0259	-0.0064	0.0045	-0.0011	0.0000
2006	7-Sep	3 C	200	-0.0097	0.0075	-0.0018	0.0178	-0.0044	0.0000
2006	7-Sep	1 T	200	0.0000	0.0000	0.0000	0.0009	-0.0003	0.0000
2006	7-Sep	2 T	200	-0.0073	0.0167	-0.0057	0.0046	-0.0016	0.0000
2006	7-Sep	3 T	200	-0.0086	0.0418	-0.0142	0.0065	-0.0022	0.0000
2006	14-Sep	1 C	15	-0.0172	0.0000	0.0000	0.0232	-0.0014	0.0000
2006	14-Sep	2 C	15	-0.0770	0.0221	-0.0013	0.0142	-0.0009	0.0000
2006	14-Sep	3 C	15	-0.0303	0.0131	-0.0008	0.0121	-0.0007	0.0000
2006	14-Sep	1 T	15	-0.0566	0.0185	-0.0011	0.0655	-0.0040	0.0000
2006	14-Sep	2 T	15	-0.0812	0.0115	-0.0007	0.0166	-0.0010	0.0000
2006	14-Sep	3 T	15	-0.0170	0.0116	-0.0007	0.0282	-0.0017	0.0000
2006	14-Sep	1 C	30	-0.0031	0.0140	-0.0009	0.0059	-0.0004	0.0000
2006	14-Sep	2 C	30	-0.0224	0.0064	-0.0004	0.0096	-0.0006	0.0000
2006	14-Sep	3 C	30	-0.0020	0.0034	-0.0002	0.0099	-0.0006	0.0000
2006	14-Sep	1 T	30	-0.0036	0.0126	-0.0008	0.0087	-0.0005	0.0000
2006	14-Sep	2 T	30	-0.0707	0.0241	-0.0015	0.0144	-0.0009	0.0000
2006	14-Sep	3 T	30	-0.0066	0.0100	-0.0006	0.0062	-0.0004	0.0000
2006	14-Sep	1 C	60	-0.0021	0.0201	-0.0012	0.0089	-0.0005	0.0000
2006	14-Sep	2 C	60	-0.0051	0.0252	-0.0016	0.0095	-0.0006	0.0000
2006	14-Sep	3 C	60	-0.0063	0.0000	0.0000	0.0122	-0.0008	0.0000
2006	14-Sep	1 T	60	-0.0019	0.0261	-0.0018	0.0166	-0.0011	0.0000
2006	14-Sep	2 T	60	-0.0018	0.0121	-0.0008	0.0541	-0.0037	0.0000
2006	14-Sep	3 T	60	-0.0016	0.0213	-0.0015	0.0274	-0.0019	0.0000
2006	14-Sep	1 C	120	-0.0020	0.0111	-0.0009	0.0181	-0.0014	0.0000
2006	14-Sep	2 C	120	-0.0023	0.0096	-0.0008	0.0207	-0.0016	0.0000
2006	14-Sep	3 C	120	-0.0053	0.0000	0.0000	0.0174	-0.0014	0.0000
2006	14-Sep	1 T	120	-0.0109	0.0000	0.0000	0.0137	-0.0014	0.0000
2006	14-Sep	2 T	120	-0.0024	0.0152	-0.0016	0.0253	-0.0026	0.0000
2006	14-Sep	3 T	120	-0.0004	0.0215	-0.0022	0.0090	-0.0009	0.0000
2006	14-Sep	1 C	200	-0.0027	0.0133	-0.0017	0.0026	-0.0003	0.0000
2006	14-Sep	2 C	200	-0.0040	0.0206	-0.0027	0.0045	-0.0006	0.0000
2006	14-Sep	3 C	200	-0.0030	0.0075	-0.0010	0.0040	-0.0005	0.0000
2006	14-Sep	1 T	200	-0.0025	0.0000	0.0000	0.0027	-0.0005	0.0000
2006	14-Sep	2 T	200	-0.0054	0.0152	-0.0027	0.0046	-0.0008	0.0000
2006	14-Sep	3 T	200	-0.0052	0.0081	-0.0014	0.0061	-0.0011	0.0000

year	date	rep	trt	depth	S_1820	Se1960	Se1960	Sr4215	Sr4215	Ti3349
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	21-Sep	1 C		15	-0.0077	0.0208	-0.0013	0.0252	-0.0016	0.0000
2006	21-Sep	2 C		15	-0.0706	0.0000	0.0000	0.0277	-0.0017	0.0043

2006	21-Sep	3	C	15	-0.0134	0.0162	-0.0010	0.0095	-0.0006	0.0000
2006	21-Sep	1	T	15	-0.0732	0.0257	-0.0017	0.1386	-0.0091	0.0000
2006	21-Sep	2	T	15	-0.0666	0.0073	-0.0005	0.0320	-0.0021	0.0000
2006	21-Sep	3	T	15	-0.0163	0.0000	0.0000	0.0788	-0.0052	0.0000
2006	21-Sep	1	C	30	-0.0022	0.0000	0.0000	0.0064	-0.0005	0.0000
2006	21-Sep	2	C	30	-0.0138	0.0231	-0.0018	0.0178	-0.0014	0.0000
2006	21-Sep	3	C	30	-0.0029	0.0142	-0.0011	0.0076	-0.0006	0.0000
2006	21-Sep	1	T	30	-0.0060	0.0144	-0.0012	0.0112	-0.0009	0.0000
2006	21-Sep	2	T	30	-0.0876	0.0174	-0.0014	0.0180	-0.0015	0.0000
2006	21-Sep	3	T	30	-0.0072	0.0175	-0.0014	0.0065	-0.0005	0.0000
2006	21-Sep	1	C	60	-0.0018	0.0211	-0.0020	0.0073	-0.0007	0.0000
2006	21-Sep	2	C	60	-0.0068	0.0144	-0.0013	0.0063	-0.0006	0.0000
2006	21-Sep	3	C	60	-0.0029	0.0237	-0.0022	0.0090	-0.0008	0.0000
2006	21-Sep	1	T	60	-0.0030	0.0171	-0.0017	0.0149	-0.0015	0.0000
2006	21-Sep	2	T	60	-0.0029	0.0120	-0.0012	0.0514	-0.0051	0.0000
2006	21-Sep	3	T	60	-0.0026	0.0155	-0.0015	0.0279	-0.0028	0.0000
2006	21-Sep	1	C	120	-0.0019	0.0056	-0.0005	0.0180	-0.0017	0.0000
2006	21-Sep	2	C	120	-0.0136	0.0169	-0.0016	0.0242	-0.0023	0.0000
2006	21-Sep	3	C	120	-0.0160	0.0000	0.0000	0.0169	-0.0016	0.0084
2006	21-Sep	1	T	120	-0.0006	0.0102	-0.0010	0.0117	-0.0012	0.0000
2006	21-Sep	2	T	120	-0.0010	0.0187	-0.0019	0.0257	-0.0026	0.0000
2006	21-Sep	3	T	120	-0.0025	0.0180	-0.0018	0.0086	-0.0009	0.0000
2006	21-Sep	1	C	200	-0.0028	0.0080	-0.0008	0.0025	-0.0003	0.0000
2006	21-Sep	2	C	200	-0.0042	0.0000	0.0000	0.0048	-0.0005	0.0000
2006	21-Sep	3	C	200	-0.0027	0.0010	-0.0001	0.0036	-0.0004	0.0000
2006	21-Sep	1	T	200	-0.0038	0.0058	-0.0007	0.0024	-0.0003	0.0000
2006	21-Sep	2	T	200	-0.0016	0.0197	-0.0025	0.0043	-0.0006	0.0000
2006	21-Sep	3	T	200	-0.0029	0.0073	-0.0009	0.0060	-0.0008	0.0000
2006	28-Sep	1	C	15	-0.0429	0.0155	-0.0028	0.0350	-0.0063	0.0000
2006	28-Sep	2	C	15	-0.2219	0.0388	-0.0070	0.0526	-0.0095	0.0000
2006	28-Sep	3	C	15	-0.0314	0.0162	-0.0029	0.0124	-0.0022	0.0000
2006	28-Sep	1	T	15	-0.4992	0.0054	-0.0010	0.1037	-0.0184	0.0000
2006	28-Sep	2	T	15	-0.1785	0.0251	-0.0045	0.0450	-0.0080	0.0000
2006	28-Sep	3	T	15	-0.0225	0.0089	-0.0016	0.0824	-0.0146	0.0000
2006	28-Sep	1	C	30	-0.0067	0.0099	-0.0016	0.0095	-0.0015	0.0000
2006	28-Sep	2	C	30	-0.0218	0.0331	-0.0052	0.0274	-0.0043	0.0000
2006	28-Sep	3	C	30	-0.0011	0.0230	-0.0036	0.0068	-0.0011	0.0000
2006	28-Sep	1	T	30	-0.0070	0.0045	-0.0007	0.0182	-0.0027	0.0000
2006	28-Sep	2	T	30	-0.1576	0.0166	-0.0025	0.0204	-0.0030	0.0000
2006	28-Sep	3	T	30	-0.0150	0.0182	-0.0027	0.0151	-0.0022	0.0000
2006	28-Sep	1	C	60	-0.0067	0.0593	-0.0071	0.0063	-0.0008	0.0000
2006	28-Sep	2	C	60	-0.0054	0.0353	-0.0043	0.0113	-0.0014	0.0000
2006	28-Sep	3	C	60	0.0000	0.0135	-0.0016	0.0074	-0.0009	0.0000
2006	28-Sep	1	T	60	-0.0028	0.0074	-0.0008	0.0157	-0.0018	0.0000

year	date	rep	trt	depth cm	S_1820 kg/ha	Se1960 ug/ml	Se1960 kg/ha	Sr4215 ug/ml	Sr4215 kg/ha	Ti3349 ug/ml
2006	28-Sep	2	T	60	-0.0041	0.0229	-0.0026	0.0458	-0.0051	0.0000
2006	28-Sep	3	T	60	-0.0037	0.0120	-0.0014	0.0238	-0.0027	0.0000

2006	28-Sep	1	C	120	-0.0048	0.0000	0.0000	0.0192	-0.0016	0.0000
2006	28-Sep	2	C	120	-0.0068	0.0000	0.0000	0.0237	-0.0020	0.0000
2006	28-Sep	3	C	120	-0.0007	0.0000	0.0000	0.0202	-0.0017	0.0021
2006	28-Sep	1	T	120	-0.0016	0.0100	-0.0009	0.0116	-0.0010	0.0000
2006	28-Sep	2	T	120	-0.0042	0.0153	-0.0014	0.0236	-0.0021	0.0000
2006	28-Sep	3	T	120	-0.0252	0.0077	-0.0007	0.0076	-0.0007	0.0000
2006	28-Sep	1	C	200	0.0000	0.0075	-0.0007	0.0012	-0.0001	0.0000
2006	28-Sep	2	C	200	0.0000	0.0249	-0.0023	0.0032	-0.0003	0.0000
2006	28-Sep	3	C	200	0.0000	0.0366	-0.0034	0.0024	-0.0002	0.0000
2006	28-Sep	1	T	200	-0.0014	0.0000	0.0000	0.0024	-0.0003	0.0000
2006	28-Sep	2	T	200	-0.0040	0.0157	-0.0018	0.0030	-0.0003	0.0000
2006	28-Sep	3	T	200	-0.0042	0.0107	-0.0012	0.0048	-0.0005	0.0000
2006	5-Oct	1	C	15	-0.0451	0.0256	-0.0084	0.0331	-0.0109	0.0000
2006	5-Oct	2	C	15	-0.3356	0.0188	-0.0062	0.0267	-0.0088	0.0000
2006	5-Oct	3	C	15	-0.1283	0.0243	-0.0080	0.0136	-0.0045	0.0000
2006	5-Oct	1	T	15	-2.0076	0.0108	-0.0034	0.0563	-0.0177	0.0000
2006	5-Oct	2	T	15	-0.2374	0.0239	-0.0075	0.0412	-0.0130	0.0000
2006	5-Oct	3	T	15	-0.0197	0.0180	-0.0057	0.0422	-0.0133	0.0000
2006	5-Oct	1	C	30	-0.0006	0.0284	-0.0082	0.0159	-0.0046	0.0000
2006	5-Oct	2	C	30	-0.0270	0.0176	-0.0051	0.0297	-0.0086	0.0000
2006	5-Oct	3	C	30	-0.0015	0.0136	-0.0039	0.0056	-0.0016	0.0000
2006	5-Oct	1	T	30	-0.0286	0.0000	0.0000	0.0217	-0.0060	0.0000
2006	5-Oct	2	T	30	-0.1875	0.0353	-0.0097	0.0289	-0.0080	0.0000
2006	5-Oct	3	T	30	-0.0131	0.0232	-0.0064	0.0235	-0.0065	0.0000
2006	5-Oct	1	C	60	0.0000	0.0270	-0.0064	0.0061	-0.0014	0.0000
2006	5-Oct	2	C	60	-0.0070	0.0172	-0.0041	0.0077	-0.0018	0.0000
2006	5-Oct	3	C	60	-0.0262	0.0197	-0.0047	0.0100	-0.0024	0.0000
2006	5-Oct	1	T	60	-0.0033	0.0157	-0.0035	0.0146	-0.0033	0.0000
2006	5-Oct	2	T	60	0.0000	0.0267	-0.0059	0.0580	-0.0129	0.0000
2006	5-Oct	3	T	60	0.0000	0.0261	-0.0058	0.0217	-0.0048	0.0000
2006	5-Oct	1	C	120	0.0000	0.0000	0.0000	0.0169	-0.0027	0.0070
2006	5-Oct	2	C	120	0.0000	0.0244	-0.0039	0.0211	-0.0034	0.0000
2006	5-Oct	3	C	120	-0.0014	0.0000	0.0000	0.0185	-0.0030	0.0002
2006	5-Oct	1	T	120	0.0000	0.0000	0.0000	0.0101	-0.0014	0.0054
2006	5-Oct	2	T	120	0.0000	0.0175	-0.0024	0.0244	-0.0033	0.0000
2006	5-Oct	3	T	120	0.0000	0.0296	-0.0040	0.0095	-0.0013	0.0000
2006	5-Oct	1	C	200	0.0000	0.0278	-0.0027	0.0009	-0.0001	0.0000
2006	5-Oct	2	C	200	0.0000	0.0292	-0.0029	0.0029	-0.0003	0.0000
2006	5-Oct	3	C	200	0.0000	0.0181	-0.0018	0.0025	-0.0002	0.0000
2006	5-Oct	1	T	200	0.0000	0.0010	-0.0001	0.0012	-0.0001	0.0000
2006	5-Oct	2	T	200	0.0000	0.0276	-0.0029	0.0029	-0.0003	0.0000
2006	5-Oct	3	T	200	-0.0073	0.0000	0.0000	0.0087	-0.0009	0.0000
2006	12-Oct	1	C	15	-0.0108	0.0197	-0.0027	0.0293	-0.0040	0.0000
2006	12-Oct	2	C	15	-0.1983	0.0243	-0.0033	0.0085	-0.0012	0.0000

year	date	rep	trt	depth cm	S_1820 kg/ha	Se1960 ug/ml	Se1960 kg/ha	Sr4215 ug/ml	Sr4215 kg/ha	Ti3349 ug/ml
2006	12-Oct	3	C	15	-0.0501	0.0254	-0.0035	0.0117	-0.0016	0.0000
2006	12-Oct	1	T	15	-1.0744	0.0281	-0.0038	0.0197	-0.0026	0.0000

2006	12-Oct	2 T	15	-0.1506	0.0267	-0.0036	0.0347	-0.0046	0.0000
2006	12-Oct	3 T	15	-0.0248	0.0311	-0.0042	0.0640	-0.0086	0.0000
2006	12-Oct	1 C	30	0.0000	0.0126	-0.0015	0.0367	-0.0042	0.0000
2006	12-Oct	2 C	30	-0.0126	0.0223	-0.0026	0.0268	-0.0031	0.0000
2006	12-Oct	3 C	30	0.0000	0.0140	-0.0016	0.0063	-0.0007	0.0000
2006	12-Oct	1 T	30	-0.0054	0.0278	-0.0031	0.0346	-0.0039	0.0000
2006	12-Oct	2 T	30	-0.0588	0.0232	-0.0026	0.0293	-0.0033	0.0000
2006	12-Oct	3 T	30	-0.0068	0.0187	-0.0021	0.0215	-0.0024	0.0000
2006	12-Oct	1 C	60	0.0000	0.0184	-0.0018	0.0061	-0.0006	0.0000
2006	12-Oct	2 C	60	-0.0121	0.0310	-0.0030	0.0159	-0.0016	0.0000
2006	12-Oct	3 C	60	0.0000	0.0376	-0.0037	0.0059	-0.0006	0.0000
2006	12-Oct	1 T	60	-0.0001	0.0206	-0.0023	0.0152	-0.0017	0.0000
2006	12-Oct	2 T	60	0.0000	0.0187	-0.0021	0.0378	-0.0041	0.0000
2006	12-Oct	3 T	60	0.0000	0.0174	-0.0019	0.0194	-0.0021	0.0000
2006	12-Oct	1 C	120	0.0000	0.0209	-0.0028	0.0186	-0.0025	0.0000
2006	12-Oct	2 C	120	0.0000	0.0180	-0.0024	0.0215	-0.0028	0.0000
2006	12-Oct	3 C	120	0.0000	0.0000	0.0000	0.0161	-0.0021	0.0000
2006	12-Oct	1 T	120	0.0000	0.0149	-0.0022	0.0118	-0.0018	0.0000
2006	12-Oct	2 T	120	0.0000	0.0351	-0.0053	0.0236	-0.0036	0.0000
2006	12-Oct	3 T	120	0.0000	0.0231	-0.0035	0.0105	-0.0016	0.0000
2006	12-Oct	1 C	200	0.0000	0.0218	-0.0031	0.0009	-0.0001	0.0000
2006	12-Oct	2 C	200	0.0000	0.0241	-0.0034	0.0028	-0.0004	0.0000
2006	12-Oct	3 C	200	0.0000	0.0000	0.0000	0.0023	-0.0003	0.0000
2006	12-Oct	1 T	200	0.0000	0.0133	-0.0017	0.0009	-0.0001	0.0000
2006	12-Oct	2 T	200	0.0000	0.0229	-0.0029	0.0028	-0.0004	0.0000
2006	12-Oct	3 T	200	0.0000	0.0221	-0.0028	0.0048	-0.0006	0.0000
2006	19-Oct	1 C	15	-0.0152	0.0209	-0.0097	0.0336	-0.0157	0.0000
2006	19-Oct	2 C	15	-0.7627	0.0000	0.0000	0.0093	-0.0043	0.0039
2006	19-Oct	3 C	15	-0.1711	0.0136	-0.0063	0.0114	-0.0053	0.0000
2006	19-Oct	1 T	15	-3.5871	0.0100	-0.0044	0.0143	-0.0063	0.0000
2006	19-Oct	2 T	15	-0.5363	0.0468	-0.0206	0.0334	-0.0147	0.0000
2006	19-Oct	3 T	15	-0.0352	0.0313	-0.0138	0.0417	-0.0184	0.0000
2006	19-Oct	1 C	30	0.0000	0.0218	-0.0088	0.0364	-0.0146	0.0000
2006	19-Oct	2 C	30	-0.0356	0.0040	-0.0016	0.0230	-0.0092	0.0000
2006	19-Oct	3 C	30	-0.0186	0.0041	-0.0016	0.0067	-0.0027	0.0000
2006	19-Oct	1 T	30	-0.0140	0.0174	-0.0061	0.0457	-0.0161	0.0000
2006	19-Oct	2 T	30	-0.1705	0.0143	-0.0050	0.0336	-0.0118	0.0000
2006	19-Oct	3 T	30	-0.0227	0.0000	0.0000	0.0216	-0.0076	0.0050
2006	19-Oct	1 C	60	0.0000	0.0186	-0.0049	0.0054	-0.0014	0.0000
2006	19-Oct	2 C	60	-0.0099	0.0208	-0.0055	0.0105	-0.0028	0.0000
2006	19-Oct	3 C	60	-0.0059	0.0130	-0.0034	0.0057	-0.0015	0.0000
2006	19-Oct	1 T	60	0.0000	0.0256	-0.0050	0.0143	-0.0028	0.0000
2006	19-Oct	2 T	60	-0.0012	0.0256	-0.0050	0.0355	-0.0069	0.0000
2006	19-Oct	3 T	60	0.0000	0.0156	-0.0030	0.0176	-0.0034	0.0000

year	date	rep	trt	depth cm	S_1820 kg/ha	Se1960 ug/ml	Se1960 kg/ha	Sr4215 ug/ml	Sr4215 kg/ha	Ti3349 ug/ml
2006	19-Oct	1	C	120	-0.0006	0.0000	0.0000	0.0176	-0.0024	0.0023
2006	19-Oct	2	C	120	-0.0007	0.0037	-0.0005	0.0199	-0.0027	0.0000

2006	19-Oct	3	C	120	-0.0021	0.0000	0.0000	0.0161	-0.0022	0.0079
2006	19-Oct	1	T	120	0.0000	0.0249	-0.0033	0.0008	-0.0001	0.0000
2006	19-Oct	2	T	120	0.0000	0.0197	-0.0026	0.0239	-0.0031	0.0000
2006	19-Oct	3	T	120	0.0000	0.0195	-0.0026	0.0138	-0.0018	0.0000
2006	19-Oct	1	C	200	-0.0034	0.0057	-0.0008	0.0013	-0.0002	0.0000
2006	19-Oct	2	C	200	-0.0034	0.0178	-0.0024	0.0029	-0.0004	0.0000
2006	19-Oct	3	C	200	-0.0052	0.0117	-0.0015	0.0023	-0.0003	0.0000
2006	19-Oct	1	T	200	0.0000	0.0268	-0.0036	0.0115	-0.0015	0.0000
2006	19-Oct	2	T	200	0.0000	0.0060	-0.0008	0.0029	-0.0004	0.0000
2006	19-Oct	3	T	200	0.0000	0.0132	-0.0018	0.0046	-0.0006	0.0000
2006	26-Oct	1	C	15	-0.1740	0.0243	-0.0397	0.0213	-0.0348	0.0000
2006	26-Oct	2	C	15	-4.1320	0.0216	-0.0354	0.0032	-0.0053	0.0000
2006	26-Oct	3	C	15	-0.5837	0.0327	-0.0535	0.0029	-0.0047	0.0000
2006	26-Oct	1	T	15	-11.2435	0.0129	-0.0213	0.0055	-0.0090	0.0000
2006	26-Oct	2	T	15	-1.4324	0.0357	-0.0587	0.0229	-0.0376	0.0000
2006	26-Oct	3	T	15	-0.6225	0.0282	-0.0464	0.0094	-0.0154	0.0000
2006	26-Oct	1	C	30	-0.0103	0.0000	0.0000	0.0384	-0.0642	0.0059
2006	26-Oct	2	C	30	-0.3705	0.0263	-0.0439	0.0111	-0.0185	0.0000
2006	26-Oct	3	C	30	-0.0117	0.0000	0.0000	0.0119	-0.0198	0.0021
2006	26-Oct	1	T	30	-0.1174	0.0133	-0.0226	0.0312	-0.0529	0.0000
2006	26-Oct	2	T	30	-0.9336	0.0358	-0.0607	0.0454	-0.0771	0.0000
2006	26-Oct	3	T	30	-0.3624	0.0196	-0.0333	0.0067	-0.0113	0.0000
2006	26-Oct	1	C	60	-0.1882	0.0030	-0.0050	0.0065	-0.0109	0.0000
2006	26-Oct	2	C	60	-0.0858	0.0288	-0.0485	0.0144	-0.0242	0.0000
2006	26-Oct	3	C	60	-0.0409	0.0218	-0.0367	0.0038	-0.0063	0.0000
2006	26-Oct	1	T	60	-0.1007	0.0095	-0.0168	0.0217	-0.0381	0.0000
2006	26-Oct	2	T	60	-0.1295	0.0001	-0.0002	0.0725	-0.1273	0.0000
2006	26-Oct	3	T	60	-0.0681	0.0363	-0.0637	0.0110	-0.0193	0.0000
2006	26-Oct	1	C	120	-0.0614	0.0242	-0.0382	0.0167	-0.0264	0.0000
2006	26-Oct	2	C	120	-0.0518	0.0350	-0.0554	0.0194	-0.0307	0.0000
2006	26-Oct	3	C	120	-0.0393	0.0359	-0.0567	0.0161	-0.0255	0.0000
2006	26-Oct	1	T	120	-0.0652	0.0376	-0.0600	0.0125	-0.0199	0.0000
2006	26-Oct	2	T	120	-0.0020	0.0000	0.0000	0.0212	-0.0338	0.0065
2006	26-Oct	3	T	120	-0.0499	0.0312	-0.0498	0.0086	-0.0138	0.0000
2006	26-Oct	1	C	200	-0.0524	0.0312	-0.0444	0.0006	-0.0009	0.0000
2006	26-Oct	2	C	200	0.0000	0.0000	0.0000	0.0025	-0.0035	0.0042
2006	26-Oct	3	C	200	-0.0614	0.0289	-0.0412	0.0019	-0.0027	0.0000
2006	26-Oct	1	T	200	-0.0246	0.0163	-0.0220	0.0007	-0.0010	0.0000
2006	26-Oct	2	T	200	0.0000	0.0000	0.0000	0.0026	-0.0034	0.0024
2006	26-Oct	3	T	200	-0.0564	0.0229	-0.0309	0.0040	-0.0054	0.0000
2006	2-Nov	1	C	15	0.0066	0.0000	0.0000	0.0231	0.0009	0.0000
2006	2-Nov	2	C	15	0.0426	0.0178	0.0007	0.0021	0.0001	0.0000
2006	2-Nov	3	C	15	0.0463	0.0267	0.0010	0.0020	0.0001	0.0000
2006	2-Nov	1	T	15	0.1406	0.0252	0.0007	0.0048	0.0001	0.0000

year	date	rep	trt	depth cm	S_1820 kg/ha	Se1960 ug/ml	Se1960 kg/ha	Sr4215 ug/ml	Sr4215 kg/ha	Ti3349 ug/ml
2006	2-Nov	2	T	15	0.0709	0.0236	0.0006	0.0093	0.0003	0.0000
2006	2-Nov	3	T	15	0.0201	0.0203	0.0006	0.0047	0.0001	0.0000

2006	2-Nov	1 C	30	-0.0002	0.0272	-0.0001	0.0250	-0.0001	0.0000
2006	2-Nov	2 C	30	-0.0044	0.0000	0.0000	0.0060	0.0000	0.0002
2006	2-Nov	3 C	30	-0.0003	0.0244	-0.0001	0.0141	-0.0001	0.0000
2006	2-Nov	1 T	30	-0.0036	0.0028	-0.0001	0.0325	-0.0010	0.0000
2006	2-Nov	2 T	30	-0.0176	0.0228	-0.0007	0.0411	-0.0012	0.0000
2006	2-Nov	3 T	30	-0.0062	0.0154	-0.0005	0.0068	-0.0002	0.0000
2006	2-Nov	1 C	60	-0.0036	0.0244	-0.0015	0.0053	-0.0003	0.0000
2006	2-Nov	2 C	60	-0.0035	0.0256	-0.0016	0.0162	-0.0010	0.0000
2006	2-Nov	3 C	60	-0.0026	0.0230	-0.0014	0.0049	-0.0003	0.0000
2006	2-Nov	1 T	60	-0.0057	0.0346	-0.0035	0.0228	-0.0023	0.0000
2006	2-Nov	2 T	60	-0.0052	0.0185	-0.0019	0.0387	-0.0039	0.0000
2006	2-Nov	3 T	60	-0.0053	0.0276	-0.0028	0.0088	-0.0009	0.0000
2006	2-Nov	1 C	120	-0.0065	0.0320	-0.0044	0.0199	-0.0027	0.0000
2006	2-Nov	2 C	120	-0.0056	0.0268	-0.0037	0.0210	-0.0029	0.0000
2006	2-Nov	3 C	120	-0.0014	0.0000	0.0000	0.0156	-0.0021	0.0013
2006	2-Nov	1 T	120	-0.0095	0.0297	-0.0061	0.0115	-0.0024	0.0000
2006	2-Nov	2 T	120	-0.0079	0.0289	-0.0059	0.0250	-0.0051	0.0000
2006	2-Nov	3 T	120	-0.0523	0.0041	-0.0008	0.0154	-0.0032	0.0000
2006	2-Nov	1 C	200	-0.0120	0.0282	-0.0078	0.0006	-0.0002	0.0000
2006	2-Nov	2 C	200	-0.0123	0.0378	-0.0105	0.0029	-0.0008	0.0000
2006	2-Nov	3 C	200	-0.0421	0.0253	-0.0070	0.0042	-0.0012	0.0000
2006	2-Nov	1 T	200	-0.0114	0.0141	-0.0054	0.0005	-0.0002	0.0000
2006	2-Nov	2 T	200	-0.0145	0.0293	-0.0113	0.0025	-0.0010	0.0000
2006	2-Nov	3 T	200	-0.0093	0.0093	-0.0036	0.0040	-0.0015	0.0000
2006	9-Nov	1 C	15	-0.0462	0.0194	-0.0093	0.0194	-0.0092	0.0000
2006	9-Nov	2 C	15	-0.2822	0.0000	0.0000	0.0012	-0.0006	0.0070
2006	9-Nov	3 C	15	-0.2472	0.0167	-0.0080	0.0040	-0.0019	0.0000
2006	9-Nov	1 T	15	-1.7545	0.0348	-0.0158	0.0029	-0.0013	0.0000
2006	9-Nov	2 T	15	-0.4616	0.0201	-0.0091	0.0160	-0.0073	0.0000
2006	9-Nov	3 T	15	-0.4700	0.0000	0.0000	0.0051	-0.0023	0.0059
2006	9-Nov	1 C	30	-0.0218	0.0281	-0.0094	0.0278	-0.0093	0.0000
2006	9-Nov	2 C	30	-0.0210	0.0255	-0.0085	0.0132	-0.0044	0.0000
2006	9-Nov	3 C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	9-Nov	1 T	30	-0.0161	0.0000	0.0000	0.0183	-0.0052	0.0055
2006	9-Nov	2 T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	9-Nov	3 T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	9-Nov	1 C	60	-0.0031	0.0224	-0.0019	0.0063	-0.0005	0.0000
2006	9-Nov	2 C	60	-0.1219	0.0000	0.0000	0.0045	-0.0004	0.0038
2006	9-Nov	3 C	60	-0.0046	0.0213	-0.0018	0.0052	-0.0004	0.0000
2006	9-Nov	1 T	60	-0.0004	0.0000	0.0000	0.0264	-0.0008	0.0036
2006	9-Nov	2 T	60	-0.0002	0.0000	0.0000	0.0702	-0.0022	0.0071
2006	9-Nov	3 T	60						
2006	9-Nov	1 C	120	-0.0013	0.0037	0.0000	0.0213	-0.0002	0.0000
2006	9-Nov	2 C	120	-0.0004	0.0197	-0.0002	0.0201	-0.0002	0.0000

year	date	rep	trt	depth cm	S_1820 kg/ha	Se1960 ug/ml	Se1960 kg/ha	Sr4215 ug/ml	Sr4215 kg/ha	Ti3349 ug/ml
2006	9-Nov	3 C		120	-0.0005	0.0207	-0.0002	0.0147	-0.0002	0.0000
2006	9-Nov	1 T		120	-0.0020	0.0239	-0.0010	0.0092	-0.0004	0.0000

2006	9-Nov	2 T	120	-0.0019	0.0370	-0.0015	0.0246	-0.0010	0.0000
2006	9-Nov	3 T	120	-0.0230	0.0236	-0.0009	0.0103	-0.0004	0.0000
2006	9-Nov	1 C	200	-0.0043	0.0102	-0.0012	0.0008	-0.0001	0.0000
2006	9-Nov	2 C	200	-0.0047	0.0204	-0.0024	0.0051	-0.0006	0.0000
2006	9-Nov	3 C	200	-0.0058	0.0254	-0.0030	0.0019	-0.0002	0.0000
2006	9-Nov	1 T	200	-0.0057	0.0000	0.0000	0.0005	-0.0001	0.0000
2006	9-Nov	2 T	200	-0.0055	0.0188	-0.0032	0.0025	-0.0004	0.0000
2006	9-Nov	3 T	200	-0.0081	0.0140	-0.0024	0.0045	-0.0008	0.0000
2006	16-Nov	1 C	15	-0.1013	0.0362	-0.0213	0.0253	-0.0149	0.0000
2006	16-Nov	2 C	15	-0.3693	0.0256	-0.0151	0.0009	-0.0005	0.0000
2006	16-Nov	3 C	15	-0.1722	0.0247	-0.0145	0.0030	-0.0017	0.0000
2006	16-Nov	1 T	15	-2.4504	0.0177	-0.0106	0.0030	-0.0018	0.0000
2006	16-Nov	2 T	15	-0.8922	0.0167	-0.0100	0.0128	-0.0077	0.0000
2006	16-Nov	3 T	15	-0.3981	0.0347	-0.0208	0.0065	-0.0039	0.0000
2006	16-Nov	1 C	30	-0.0347	0.0255	-0.0142	0.0206	-0.0115	0.0000
2006	16-Nov	2 C	30	-0.3750	0.0267	-0.0149	0.0019	-0.0011	0.0000
2006	16-Nov	3 C	30	-0.0361	0.0307	-0.0171	0.0052	-0.0029	0.0000
2006	16-Nov	1 T	30	-0.0352	0.0335	-0.0202	0.0130	-0.0078	0.0000
2006	16-Nov	2 T	30	-0.3228	0.0218	-0.0131	0.0385	-0.0232	0.0000
2006	16-Nov	3 T	30	-0.0770	0.0254	-0.0153	0.0081	-0.0049	0.0000
2006	16-Nov	1 C	60	-0.0215	0.0219	-0.0121	0.0057	-0.0032	0.0000
2006	16-Nov	2 C	60	-0.0318	0.0363	-0.0201	0.0079	-0.0044	0.0000
2006	16-Nov	3 C	60	-0.0347	0.0000	0.0000	0.0062	-0.0034	0.0000
2006	16-Nov	1 T	60	-0.0237	0.0126	-0.0072	0.0152	-0.0086	0.0000
2006	16-Nov	2 T	60	-0.0235	0.0154	-0.0088	0.0270	-0.0153	0.0000
2006	16-Nov	3 T	60	-0.0293	0.0291	-0.0166	0.0090	-0.0051	0.0000
2006	16-Nov	1 C	120	-0.0092	0.0153	-0.0037	0.0176	-0.0043	0.0000
2006	16-Nov	2 C	120	-0.0098	0.0159	-0.0039	0.0209	-0.0051	0.0000
2006	16-Nov	3 C	120	-0.0077	0.0030	-0.0007	0.0152	-0.0037	0.0000
2006	16-Nov	1 T	120	-0.0235	0.0443	-0.0071	0.0132	-0.0021	0.0000
2006	16-Nov	2 T	120	-0.0067	0.0092	-0.0015	0.0251	-0.0040	0.0000
2006	16-Nov	3 T	120	-0.0235	0.0302	-0.0049	0.0138	-0.0022	0.0000
2006	16-Nov	1 C	200	-0.0030	0.0279	-0.0022	0.0007	-0.0001	0.0000
2006	16-Nov	2 C	200	-0.0039	0.0282	-0.0023	0.0031	-0.0003	0.0000
2006	16-Nov	3 C	200	-0.0007	0.0000	0.0000	0.0019	-0.0002	0.0000
2006	16-Nov	1 T	200	-0.0038	0.0039	-0.0004	0.0008	-0.0001	0.0000
2006	16-Nov	2 T	200	-0.0022	0.0256	-0.0026	0.0026	-0.0003	0.0000
2006	16-Nov	3 T	200	-0.0036	0.0119	-0.0012	0.0044	-0.0005	0.0000
2006	23-Nov	1 C	15	-0.0162	0.0000	0.0000	0.0244	-0.0062	0.0000
2006	23-Nov	2 C	15	-0.1479	0.0000	0.0000	0.0010	-0.0003	0.0000
2006	23-Nov	3 C	15	-0.2935	0.0000	0.0000	0.0026	-0.0007	0.0000
2006	23-Nov	1 T	15	-0.7603	0.0003	-0.0001	0.0024	-0.0006	0.0000
2006	23-Nov	2 T	15	-0.4353	0.0000	0.0000	0.0101	-0.0026	0.0000
2006	23-Nov	3 T	15	-0.1750	0.0000	0.0000	0.0115	-0.0030	0.0000

year	date	rep	trt	depth	S_1820	Se1960	Se1960	Sr4215	Sr4215	Ti3349
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	23-Nov	1 C		30	-0.0091	0.0046	-0.0011	0.0184	-0.0045	0.0000
2006	23-Nov	2 C		30	-0.2624	0.0000	0.0000	0.0050	-0.0012	0.0000

2006	23-Nov	3	C	30	-0.0117	0.0060	-0.0015	0.0045	-0.0011	0.0000
2006	23-Nov	1	T	30	-0.0151	0.0000	0.0000	0.0176	-0.0046	0.0000
2006	23-Nov	2	T	30	-0.1472	0.0000	0.0000	0.0348	-0.0091	0.0000
2006	23-Nov	3	T	30	-0.0289	0.0080	-0.0021	0.0114	-0.0030	0.0000
2006	23-Nov	1	C	60	-0.0045	0.0000	0.0000	0.0068	-0.0016	0.0000
2006	23-Nov	2	C	60	-0.0114	0.0000	0.0000	0.0051	-0.0012	0.0000
2006	23-Nov	3	C	60	-0.0036	0.0000	0.0000	0.0047	-0.0011	0.0000
2006	23-Nov	1	T	60	-0.0288	0.0000	0.0000	0.0282	-0.0075	0.0000
2006	23-Nov	2	T	60	-0.0036	0.0000	0.0000	0.0212	-0.0056	0.0000
2006	23-Nov	3	T	60	-0.0081	0.0000	0.0000	0.0095	-0.0025	0.0000
2006	23-Nov	1	C	120	-0.0079	0.0000	0.0000	0.0192	-0.0049	0.0000
2006	23-Nov	2	C	120	-0.0068	0.0000	0.0000	0.0219	-0.0056	0.0000
2006	23-Nov	3	C	120	-0.0078	0.0023	-0.0006	0.0195	-0.0050	0.0000
2006	23-Nov	1	T	120	-0.0092	0.0000	0.0000	0.0088	-0.0025	0.0000
2006	23-Nov	2	T	120	-0.0060	0.0000	0.0000	0.0268	-0.0077	0.0000
2006	23-Nov	3	T	120	-0.0082	0.0000	0.0000	0.0201	-0.0058	0.0000
2006	23-Nov	1	C	200	-0.0065	0.0055	-0.0014	0.0007	-0.0002	0.0000
2006	23-Nov	2	C	200	-0.0069	0.0000	0.0000	0.0032	-0.0008	0.0000
2006	23-Nov	3	C	200	-0.0097	0.0000	0.0000	0.0020	-0.0005	0.0000
2006	23-Nov	1	T	200	0.0000	0.0000	0.0000	0.0008	-0.0002	0.0000
2006	23-Nov	2	T	200	-0.0204	0.0000	0.0000	0.0059	-0.0011	0.0000
2006	23-Nov	3	T	200	-0.0048	0.0022	-0.0004	0.0051	-0.0010	0.0000
2006	30-Nov	1	C	15	-0.0544	0.0000	0.0000	0.0171	-0.0052	0.0000
2006	30-Nov	2	C	15	-0.4716	0.0000	0.0000	0.0040	-0.0012	0.0000
2006	30-Nov	3	C	15	-0.3121	0.0049	-0.0015	0.0012	-0.0004	0.0000
2006	30-Nov	1	T	15	-0.8345	0.0000	0.0000	0.0034	-0.0011	0.0000
2006	30-Nov	2	T	15	-0.5006	0.0000	0.0000	0.0096	-0.0030	0.0000
2006	30-Nov	3	T	15	-0.2432	0.0018	-0.0006	0.0074	-0.0024	0.0000
2006	30-Nov	1	C	30	-0.0132	0.0000	0.0000	0.0117	-0.0036	0.0000
2006	30-Nov	2	C	30	-0.2678	0.0000	0.0000	0.0016	-0.0005	0.0000
2006	30-Nov	3	C	30	-0.0142	0.0001	0.0000	0.0058	-0.0018	0.0000
2006	30-Nov	1	T	30	-0.0189	0.0000	0.0000	0.0082	-0.0025	0.0000
2006	30-Nov	2	T	30	-0.1489	0.0023	-0.0007	0.0300	-0.0093	0.0000
2006	30-Nov	3	T	30	-0.0366	0.0006	-0.0002	0.0094	-0.0029	0.0000
2006	30-Nov	1	C	60	-0.0074	0.0000	0.0000	0.0060	-0.0017	0.0000
2006	30-Nov	2	C	60	-0.0150	0.0000	0.0000	0.0034	-0.0010	0.0000
2006	30-Nov	3	C	60	-0.0268	0.0000	0.0000	0.0077	-0.0022	0.0000
2006	30-Nov	1	T	60	-0.0129	0.0098	-0.0029	0.0225	-0.0065	0.0000
2006	30-Nov	2	T	60	-0.0093	0.0000	0.0000	0.0211	-0.0061	0.0000
2006	30-Nov	3	T	60	-0.0124	0.0000	0.0000	0.0104	-0.0030	0.0000
2006	30-Nov	1	C	120	-0.0117	0.0000	0.0000	0.0215	-0.0052	0.0000
2006	30-Nov	2	C	120	-0.0081	0.0000	0.0000	0.0210	-0.0051	0.0000
2006	30-Nov	3	C	120	-0.0126	0.0000	0.0000	0.0170	-0.0041	0.0000
2006	30-Nov	1	T	120	-0.0382	0.0085	-0.0020	0.0122	-0.0029	0.0000

year	date	rep	trt	depth cm	S_1820 kg/ha	Se1960 ug/ml	Se1960 kg/ha	Sr4215 ug/ml	Sr4215 kg/ha	Ti3349 ug/ml
2006	30-Nov	2	T	120	-0.0061	0.0001	0.0000	0.0261	-0.0062	0.0000
2006	30-Nov	3	T	120	-0.0047	0.0000	0.0000	0.0126	-0.0030	0.0000

2006	30-Nov	1	C	200	-0.0058	0.0000	0.0000	0.0005	-0.0001	0.0000
2006	30-Nov	2	C	200	-0.0053	0.0000	0.0000	0.0032	-0.0007	0.0000
2006	30-Nov	3	C	200	-0.0083	0.0000	0.0000	0.0020	-0.0005	0.0000
2006	30-Nov	1	T	200	-0.0030	0.0000	0.0000	0.0009	-0.0002	0.0000
2006	30-Nov	2	T	200	-0.0054	0.0000	0.0000	0.0030	-0.0007	0.0000
2006	30-Nov	3	T	200	-0.0057	0.0000	0.0000	0.0048	-0.0011	0.0000
2006	7-Dec	1	T	15						
2006	7-Dec	2	T	15						
2006	7-Dec	3	T	15	-0.0444	0.0000	0.0000	0.0094	-0.0008	0.0032
2006	7-Dec	1	C	30	-0.0010	0.0000	0.0000	0.0079	-0.0001	0.0000
2006	7-Dec	2	C	30	-0.0130	0.0000	0.0000	0.0020	0.0000	0.0082
2006	7-Dec	3	C	30						
2006	7-Dec	1	T	30	0.0004	0.0000	0.0000	0.0054	0.0000	0.0000
2006	7-Dec	2	T	30	0.0027	0.0011	0.0000	0.0278	0.0002	0.0000
2006	7-Dec	3	T	30	0.0012	0.0000	0.0000	0.0108	0.0001	0.0075
2006	7-Dec	1	C	60	0.0002	0.0000	0.0000	0.0067	0.0001	0.0000
2006	7-Dec	2	C	60	0.0004	0.0000	0.0000	0.0088	0.0001	0.0038
2006	7-Dec	3	C	60	0.0003	0.0000	0.0000	0.0057	0.0000	0.0000
2006	7-Dec	1	T	60	-0.0007	0.0010	0.0000	0.0279	-0.0004	0.0000
2006	7-Dec	2	T	60	-0.0004	0.0023	0.0000	0.0351	-0.0005	0.0000
2006	7-Dec	3	T	60	-0.0007	0.0000	0.0000	0.0101	-0.0002	0.0000
2006	7-Dec	1	C	120	-0.0031	0.0000	0.0000	0.0212	-0.0014	0.0000
2006	7-Dec	2	C	120	-0.0017	0.0004	0.0000	0.0238	-0.0016	0.0000
2006	7-Dec	3	C	120	-0.0008	0.0000	0.0000	0.0174	-0.0011	0.0000
2006	7-Dec	1	T	120	-0.0025	0.0000	0.0000	0.0085	-0.0009	0.0000
2006	7-Dec	2	T	120	-0.0034	0.0000	0.0000	0.0287	-0.0030	0.0000
2006	7-Dec	3	T	120	-0.0176	0.0000	0.0000	0.0331	-0.0035	0.0000
2006	7-Dec	1	C	200	-0.0047	0.0000	0.0000	0.0008	-0.0001	0.0000
2006	7-Dec	2	C	200	-0.0056	0.0000	0.0000	0.0038	-0.0007	0.0000
2006	7-Dec	3	C	200	-0.0046	0.0000	0.0000	0.0021	-0.0004	0.0000
2006	7-Dec	1	T	200	-0.0043	0.0000	0.0000	0.0008	-0.0002	0.0000
2006	7-Dec	2	T	200	-0.0045	0.0000	0.0000	0.0031	-0.0006	0.0000
2006	7-Dec	3	T	200	-0.0064	0.0000	0.0000	0.0054	-0.0011	0.0000
2006	14-Dec	1	C	15	0.0039	0.0053	0.0001	0.0027	0.0001	0.0000
2006	14-Dec	2	C	15	0.0399	0.0000	0.0000	0.0073	0.0002	0.0045
2006	14-Dec	3	C	15	0.0172	0.0000	0.0000	0.0013	0.0000	0.0000
2006	14-Dec	1	T	15	0.0006	0.0000	0.0000	0.0031	0.0000	0.0000
2006	14-Dec	2	T	15	0.0006	0.0000	0.0000	0.0100	0.0000	0.0000
2006	14-Dec	3	T	15	0.0003	0.0000	0.0000	0.0042	0.0000	0.0000
2006	14-Dec	1	C	30	-0.0005	0.0000	0.0000	0.0096	-0.0002	0.0000
2006	14-Dec	2	C	30	-0.0201	0.0000	0.0000	0.0020	-0.0001	0.0000
2006	14-Dec	3	C	30	-0.0055	0.0000	0.0000	0.0281	-0.0007	0.0070
2006	14-Dec	1	T	30	-0.0047	0.0055	-0.0005	0.0088	-0.0008	0.0000
2006	14-Dec	2	T	30	-0.0408	0.0000	0.0000	0.0345	-0.0032	0.0000

year	date	rep	trt	depth	S_1820	Se1960	Se1960	Sr4215	Sr4215	Ti3349
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	14-Dec	3	T	30	-0.0132	0.0000	0.0000	0.0083	-0.0008	0.0000
2006	14-Dec	1	C	60	-0.0016	0.0000	0.0000	0.0051	-0.0004	0.0000

2006	14-Dec	2	C	60	-0.0048	0.0030	-0.0003	0.0063	-0.0006	0.0000
2006	14-Dec	3	C	60	-0.0009	0.0000	0.0000	0.0048	-0.0004	0.0000
2006	14-Dec	1	T	60	-0.0120	0.0000	0.0000	0.0289	-0.0024	0.0000
2006	14-Dec	2	T	60	-0.0021	0.0000	0.0000	0.0210	-0.0018	0.0000
2006	14-Dec	3	T	60	-0.0015	0.0000	0.0000	0.0094	-0.0008	0.0000
2006	14-Dec	1	C	120	-0.0009	0.0000	0.0000	0.0195	-0.0010	0.0000
2006	14-Dec	2	C	120	-0.0009	0.0000	0.0000	0.0222	-0.0011	0.0000
2006	14-Dec	3	C	120	-0.0094	0.0000	0.0000	0.0238	-0.0012	0.0000
2006	14-Dec	1	T	120	-0.0020	0.0000	0.0000	0.0102	-0.0006	0.0000
2006	14-Dec	2	T	120	-0.0017	0.0000	0.0000	0.0289	-0.0018	0.0000
2006	14-Dec	3	T	120	-0.0011	0.0000	0.0000	0.0143	-0.0009	0.0000
2006	14-Dec	1	C	200	-0.0100	0.0000	0.0000	0.0041	-0.0004	0.0000
2006	14-Dec	2	C	200	-0.0017	0.0073	-0.0007	0.0036	-0.0003	0.0000
2006	14-Dec	3	C	200	-0.0076	0.0000	0.0000	0.0035	-0.0003	0.0000
2006	14-Dec	1	T	200	-0.0015	0.0000	0.0000	0.0010	-0.0001	0.0000
2006	14-Dec	2	T	200	-0.0028	0.0000	0.0000	0.0033	-0.0004	0.0000
2006	14-Dec	3	T	200	-0.0046	0.0000	0.0000	0.0060	-0.0008	0.0000

year	date	rep	trt	depth	Ti3349	V_2924	V_2924	Y_3710	Y_3710	Zn2062
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	21-Apr	1	C	15	0.0000	0.0000	0.0000	0.0001	0.0000	0.0034
2006	21-Apr	2	C	15	0.0000	0.0000	0.0000	0.0001	0.0000	0.0138
2006	21-Apr	3	C	15	0.0000	0.0000	0.0000	0.0006	0.0000	0.0172

2006	21-Apr	1 T	15	0.0000	0.0000	0.0000	0.0001	0.0000	0.0214
2006	21-Apr	2 T	15	-0.0004	0.0000	0.0000	0.0010	-0.0001	1.5492
2006	21-Apr	3 T	15	0.0000	0.0000	0.0000	0.0002	0.0000	0.0253
2006	21-Apr	1 C	30	0.0000	0.0000	0.0000	0.0002	0.0000	0.2322
2006	21-Apr	2 C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.2345
2006	21-Apr	3 C	30						
2006	21-Apr	1 T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0096
2006	21-Apr	2 T	30						
2006	21-Apr	3 T	30	-0.0002	0.0000	0.0000	0.0004	0.0000	0.3454
2006	21-Apr	1 C	60						
2006	21-Apr	2 C	60	0.0000	0.0025	-0.0001	0.0017	0.0000	0.0153
2006	21-Apr	3 C	60	0.0000	0.0000	0.0000	0.0011	0.0000	0.0448
2006	27-Apr	1 C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0034
2006	27-Apr	2 C	15	-0.0065	0.0016	-0.0019	0.0023	-0.0026	0.0206
2006	27-Apr	3 C	15	0.0000	0.0000	0.0000	0.0008	-0.0009	0.0158
2006	27-Apr	1 T	15	0.0000	0.0000	0.0000	0.0002	-0.0002	0.0068
2006	27-Apr	2 T	15	0.0000	0.0000	0.0000	0.0005	-0.0006	0.0873
2006	27-Apr	3 T	15	0.0000	0.0000	0.0000	0.0002	-0.0002	0.0194
2006	27-Apr	1 C	30	0.0000	0.0000	0.0000	0.0002	-0.0002	0.0384
2006	27-Apr	2 C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0206
2006	27-Apr	3 C	30	0.0000	0.0000	0.0000	0.0017	-0.0018	0.1938
2006	27-Apr	1 T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0517
2006	27-Apr	2 T	30	0.0000	0.0000	0.0000	0.0019	-0.0020	0.1060
2006	27-Apr	3 T	30	0.0000	0.0000	0.0000	0.0002	-0.0002	0.1787
2006	27-Apr	1 C	60	0.0000	0.0000	0.0000	0.0022	-0.0020	0.4597
2006	27-Apr	2 C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0031
2006	27-Apr	3 C	60	0.0000	0.0000	0.0000	0.0014	-0.0013	0.0246
2006	27-Apr	1 T	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0150
2006	27-Apr	2 T	60	-0.0063	0.0000	0.0000	0.0059	-0.0047	0.7354
2006	27-Apr	3 T	60	0.0000	0.0000	0.0000	0.0015	-0.0012	0.1291
2006	27-Apr	1 C	120	0.0000	0.0000	0.0000	0.0015	-0.0006	0.0365
2006	27-Apr	2 C	120	0.0000	0.0000	0.0000	0.0009	-0.0003	0.0639
2006	27-Apr	3 C	120	-0.0006	0.0000	0.0000	0.0039	-0.0015	0.2525
2006	27-Apr	1 T	120	0.0000	0.0005	-0.0001	0.0011	-0.0002	0.0204
2006	27-Apr	2 T	120						
2006	27-Apr	3 T	120	0.0000	0.0011	-0.0002	0.0017	-0.0002	0.2186
2006	27-Apr	1 C	200	0.0000	0.0000	0.0000	0.0001	0.0000	0.0479
2006	27-Apr	2 C	200	0.0000	0.0000	0.0000	0.0002	0.0000	0.0221
2006	27-Apr	3 C	200	0.0000	0.0000	0.0000	0.0003	0.0000	0.0206
2006	27-Apr	1 T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0328
2006	27-Apr	2 T	200						
2006	27-Apr	3 T	200	0.0000	0.0000	0.0000	0.0004	0.0000	0.2323
2006	4-May	1 C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0040
2006	4-May	2 C	15	0.0000	0.0000	0.0000	0.0004	-0.0002	0.0201

year	date	rep	trt	depth	Ti3349	V_2924	V_2924	Y_3710	Y_3710	Zn2062
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	4-May	3 C		15	0.0000	0.0000	0.0000	0.0003	-0.0001	0.0207
2006	4-May	1 T		15	0.0000	0.0006	-0.0003	0.0020	-0.0010	0.0288
2006	4-May	2 T		15	-0.0013	0.0000	0.0000	0.0007	-0.0004	0.1332

2006	4-May	3 T	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0327
2006	4-May	1 C	30	0.0000	0.0002	-0.0001	0.0021	-0.0010	0.0064
2006	4-May	2 C	30	0.0000	0.0000	0.0000	0.0006	-0.0003	0.0115
2006	4-May	3 C	30	0.0000	0.0000	0.0000	0.0021	-0.0009	0.0214
2006	4-May	1 T	30	0.0000	0.0000	0.0000	0.0003	-0.0002	0.0081
2006	4-May	2 T	30	0.0000	0.0033	-0.0016	0.0038	-0.0018	0.0218
2006	4-May	3 T	30	0.0000	0.0000	0.0000	0.0004	-0.0002	0.1173
2006	4-May	1 C	60	0.0000	0.0000	0.0000	0.0020	-0.0009	0.0376
2006	4-May	2 C	60	0.0000	0.0000	0.0000	0.0000	0.0000	0.0043
2006	4-May	3 C	60	0.0000	0.0000	0.0000	0.0017	-0.0008	0.0329
2006	4-May	1 T	60	0.0000	0.0000	0.0000	0.0007	-0.0003	0.0072
2006	4-May	2 T	60	0.0000	0.0000	0.0000	0.0051	-0.0024	0.1764
2006	4-May	3 T	60	0.0000	0.0000	0.0000	0.0018	-0.0008	0.1050
2006	4-May	1 C	120	0.0000	0.0000	0.0000	0.0009	-0.0004	0.0156
2006	4-May	2 C	120	0.0000	0.0000	0.0000	0.0010	-0.0005	0.0623
2006	4-May	3 C	120	0.0000	0.0001	0.0000	0.0051	-0.0022	0.0278
2006	4-May	1 T	120	0.0000	0.0000	0.0000	0.0006	-0.0003	0.0125
2006	4-May	2 T	120						
2006	4-May	3 T	120	0.0000	0.0000	0.0000	0.0004	-0.0002	0.0145
2006	4-May	1 C	200	0.0000	0.0000	0.0000	0.0007	-0.0001	0.0138
2006	4-May	2 C	200	0.0000	0.0000	0.0000	0.0004	0.0000	0.0244
2006	4-May	3 C	200	0.0000	0.0000	0.0000	0.0008	-0.0001	0.0166
2006	4-May	1 T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0037
2006	4-May	2 T	200						
2006	4-May	3 T	200	0.0000	0.0000	0.0000	0.0004	0.0000	0.0169
2006	12-May	1 C	15	0.0000	0.0000	0.0000	0.0005	-0.0005	0.0028
2006	12-May	2 C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	3 C	15	0.0000	0.0000	0.0000	0.0001	-0.0001	0.0192
2006	12-May	1 T	15	0.0000	0.0000	0.0000	0.0023	-0.0020	0.2882
2006	12-May	2 T	15	-0.0043	0.0000	0.0000	0.0008	-0.0007	0.1413
2006	12-May	3 T	15	0.0000	0.0000	0.0000	0.0010	-0.0009	0.0712
2006	12-May	1 C	30	0.0000	0.0000	0.0000	0.0006	-0.0005	0.0133
2006	12-May	2 C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	3 C	30	0.0000	0.0000	0.0000	0.0022	-0.0019	0.0457
2006	12-May	1 T	30	0.0000	0.0000	0.0000	0.0003	-0.0003	0.0404
2006	12-May	2 T	30	0.0000	0.0000	0.0000	0.0028	-0.0024	0.0524
2006	12-May	3 T	30	0.0000	0.0000	0.0000	0.0001	-0.0001	0.1120
2006	12-May	1 C	60	0.0000	0.0000	0.0000	0.0033	-0.0029	0.0209
2006	12-May	2 C	60	0.0000	0.0000	0.0000	0.0009	-0.0008	0.0047
2006	12-May	3 C	60	0.0000	0.0000	0.0000	0.0007	-0.0006	0.0132
2006	12-May	1 T	60	0.0000	0.0000	0.0000	0.0007	-0.0006	0.0153
2006	12-May	2 T	60	0.0000	0.0000	0.0000	0.0054	-0.0047	0.0553
2006	12-May	3 T	60	0.0000	0.0000	0.0000	0.0020	-0.0018	0.0456

year	date	rep	trt	depth	Ti3349	V_2924	V_2924	Y_3710	Y_3710	Zn2062
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	12-May	1 C		120	0.0000	0.0000	0.0000	0.0016	-0.0014	0.0157
2006	12-May	2 C		120						
2006	12-May	3 C		120	0.0000	0.0000	0.0000	0.0023	-0.0020	0.0183

2006	12-May	1	T	120	0.0000	0.0000	0.0000	0.0003	-0.0003	0.0107
2006	12-May	2	T	120	-0.0039	0.0000	0.0000	0.0032	-0.0029	0.0663
2006	12-May	3	T	120	0.0000	0.0000	0.0000	0.0003	-0.0003	0.0123
2006	12-May	1	C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0126
2006	12-May	2	C	200	-0.0061	0.0000	0.0000	0.0000	0.0000	0.0156
2006	12-May	3	C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0102
2006	12-May	1	T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	12-May	2	T	200	-0.0023	0.0000	0.0000	0.0000	0.0000	0.0584
2006	12-May	3	T	200	0.0000	0.0017	-0.0009	0.0020	-0.0010	0.0354
2006	19-May	1	C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0096
2006	19-May	2	C	15	0.0000	0.0000	0.0000	0.0007	-0.0002	0.0324
2006	19-May	3	C	15	0.0000	0.0000	0.0000	0.0015	-0.0004	0.0765
2006	19-May	1	T	15	0.0000	0.0000	0.0000	0.0017	-0.0005	0.0428
2006	19-May	2	T	15	0.0000	0.0000	0.0000	0.0018	-0.0005	0.1121
2006	19-May	3	T	15	0.0000	0.0000	0.0000	0.0011	-0.0003	0.0606
2006	19-May	1	C	30	0.0000	0.0000	0.0000	0.0004	-0.0001	0.0156
2006	19-May	2	C	30	-0.0001	0.0006	-0.0002	0.0045	-0.0013	0.0460
2006	19-May	3	C	30	-0.0018	0.0000	0.0000	0.0039	-0.0011	0.0457
2006	19-May	1	T	30	0.0000	0.0000	0.0000	0.0018	-0.0005	0.0348
2006	19-May	2	T	30	0.0000	0.0008	-0.0002	0.0031	-0.0009	0.0339
2006	19-May	3	T	30	-0.0014	0.0000	0.0000	0.0023	-0.0007	0.4973
2006	19-May	1	C	60	0.0000	0.0017	-0.0005	0.0054	-0.0017	0.0112
2006	19-May	2	C	60	0.0000	0.0000	0.0000	0.0006	-0.0002	0.0085
2006	19-May	3	C	60	0.0000	0.0000	0.0000	0.0006	-0.0002	0.0179
2006	19-May	1	T	60	0.0000	0.0000	0.0000	0.0006	-0.0002	0.0163
2006	19-May	2	T	60	0.0000	0.0000	0.0000	0.0041	-0.0013	0.0520
2006	19-May	3	T	60	0.0000	0.0000	0.0000	0.0023	-0.0008	0.0610
2006	19-May	1	C	120	0.0000	0.0000	0.0000	0.0021	-0.0007	0.0234
2006	19-May	2	C	120	0.0000	0.0000	0.0000	0.0011	-0.0004	0.0431
2006	19-May	3	C	120	-0.0028	0.0000	0.0000	0.0029	-0.0010	0.0220
2006	19-May	1	T	120	0.0000	0.0009	-0.0003	0.0017	-0.0007	0.0139
2006	19-May	2	T	120	0.0000	0.0000	0.0000	0.0024	-0.0009	0.0514
2006	19-May	3	T	120	0.0000	0.0000	0.0000	0.0001	0.0000	0.0160
2006	19-May	1	C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0135
2006	19-May	2	C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0212
2006	19-May	3	C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0166
2006	19-May	1	T	200	0.0000	0.0002	-0.0001	0.0002	-0.0001	0.0046
2006	19-May	2	T	200	0.0000	0.0000	0.0000	0.0003	-0.0001	0.0266
2006	19-May	3	T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0205
2006	27-May	1	C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0283
2006	27-May	2	C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0104
2006	27-May	3	C	15	0.0000	0.0000	0.0000	0.0004	-0.0002	0.0307
2006	27-May	1	T	15						
2006	27-May	2	T	15	0.0000	0.0000	0.0000	0.0027	-0.0019	0.0674

year	date	rep	trt	depth	Ti3349	V_2924	V_2924	Y_3710	Y_3710	Zn2062
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	27-May	3	T	15	0.0000	0.0000	0.0000	0.0031	-0.0021	0.0523
2006	27-May	1	C	30	0.0000	0.0000	0.0000	0.0009	-0.0006	0.0189
2006	27-May	2	C	30	0.0000	0.0000	0.0000	0.0011	-0.0008	0.0338

2006	27-May	3	C	30	0.0000	0.0000	0.0000	0.0039	-0.0026	0.0253
2006	27-May	1	T	30	0.0000	0.0000	0.0000	0.0025	-0.0017	0.0969
2006	27-May	2	T	30	0.0000	0.0000	0.0000	0.0030	-0.0020	0.0601
2006	27-May	3	T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0225
2006	27-May	1	C	60	0.0000	0.0000	0.0000	0.0003	-0.0002	0.0080
2006	27-May	2	C	60	0.0000	0.0000	0.0000	0.0054	-0.0034	0.0352
2006	27-May	3	C	60	0.0000	0.0026	-0.0016	0.0023	-0.0015	0.0394
2006	27-May	1	T	60	0.0000	0.0000	0.0000	0.0001	0.0000	0.0174
2006	27-May	2	T	60	0.0000	0.0000	0.0000	0.0054	-0.0033	0.0702
2006	27-May	3	T	60	0.0000	0.0000	0.0000	0.0018	-0.0011	0.0559
2006	27-May	1	C	120	0.0000	0.0000	0.0000	0.0016	-0.0009	0.0193
2006	27-May	2	C	120	0.0000	0.0000	0.0000	0.0004	-0.0002	0.0491
2006	27-May	3	C	120	0.0000	0.0000	0.0000	0.0029	-0.0016	0.0195
2006	27-May	1	T	120	0.0000	0.0017	-0.0008	0.0016	-0.0008	0.0165
2006	27-May	2	T	120	0.0000	0.0000	0.0000	0.0005	-0.0003	0.0457
2006	27-May	3	T	120	0.0000	0.0028	-0.0014	0.0012	-0.0006	0.0114
2006	27-May	1	C	200	0.0000	0.0000	0.0000	0.0002	-0.0001	0.0113
2006	27-May	2	C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0167
2006	27-May	3	C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0149
2006	27-May	1	T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0063
2006	27-May	2	T	200	0.0000	0.0000	0.0000	0.0024	-0.0009	0.3288
2006	27-May	3	T	200	0.0000	0.0000	0.0000	0.0011	-0.0004	0.0144
2006	1-Jun	1	C	15	0.0000	0.0000	0.0000	0.0001	0.0000	0.0088
2006	1-Jun	2	C	15	-0.0001	0.0000	0.0000	0.0022	-0.0013	0.6173
2006	1-Jun	3	C	15	0.0000	0.0000	0.0000	0.0048	-0.0030	0.0435
2006	1-Jun	1	T	15	-0.0003	0.0000	0.0000	0.0034	-0.0021	0.2705
2006	1-Jun	2	T	15	-0.0010	0.0000	0.0000	0.0007	-0.0004	0.1337
2006	1-Jun	3	T	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0539
2006	1-Jun	1	C	30	-0.0047	0.0000	0.0000	0.0028	-0.0017	0.0516
2006	1-Jun	2	C	30	0.0000	0.0000	0.0000	0.0005	-0.0003	0.0069
2006	1-Jun	3	C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0236
2006	1-Jun	1	T	30	0.0000	0.0000	0.0000	0.0030	-0.0017	0.0981
2006	1-Jun	2	T	30	0.0000	0.0000	0.0000	0.0025	-0.0014	0.0736
2006	1-Jun	3	T	30	0.0000	0.0016	-0.0009	0.0058	-0.0033	0.3563
2006	1-Jun	1	C	60	0.0000	0.0000	0.0000	0.0066	-0.0038	0.0230
2006	1-Jun	2	C	60	0.0000	0.0000	0.0000	0.0013	-0.0007	0.0482
2006	1-Jun	3	C	60	0.0000	0.0002	-0.0001	0.0022	-0.0013	0.0159
2006	1-Jun	1	T	60	0.0000	0.0000	0.0000	0.0008	-0.0005	0.0224
2006	1-Jun	2	T	60	0.0000	0.0000	0.0000	0.0065	-0.0038	0.0256
2006	1-Jun	3	T	60	0.0000	0.0000	0.0000	0.0016	-0.0009	0.1292
2006	1-Jun	1	C	120	0.0000	0.0000	0.0000	0.0019	-0.0012	0.0215
2006	1-Jun	2	C	120	-0.0016	0.0000	0.0000	0.0001	-0.0001	0.0246

year	date	rep	trt	depth	Ti3349	V_2924	V_2924	Y_3710	Y_3710	Zn2062
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	1-Jun	3	C	120	0.0000	0.0000	0.0000	0.0026	-0.0016	0.0227
2006	1-Jun	1	T	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0177
2006	1-Jun	2	T	120	0.0000	0.0000	0.0000	0.0031	-0.0019	0.0514

2006	1-Jun	3 T	120	0.0000	0.0000	0.0000	0.0002	-0.0001	0.0385
2006	1-Jun	1 C	200	-0.0048	0.0000	0.0000	0.0004	-0.0002	0.0274
2006	1-Jun	2 C	200	0.0000	0.0000	0.0000	0.0005	-0.0003	0.0222
2006	1-Jun	3 C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0152
2006	1-Jun	1 T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0070
2006	1-Jun	2 T	200	0.0000	0.0000	0.0000	0.0001	-0.0001	0.0323
2006	1-Jun	3 T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0287
2006	9-Jun	1 C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0138
2006	9-Jun	2 C	15	0.0000	0.0000	0.0000	0.0012	-0.0007	0.0286
2006	9-Jun	3 C	15	0.0000	0.0017	-0.0010	0.0020	-0.0012	0.1090
2006	9-Jun	1 T	15	0.0000	0.0000	0.0000	0.0046	-0.0028	0.4181
2006	9-Jun	2 T	15	0.0000	0.0000	0.0000	0.0054	-0.0032	0.1016
2006	9-Jun	3 T	15	0.0000	0.0000	0.0000	0.0018	-0.0011	0.0964
2006	9-Jun	1 C	30	0.0000	0.0000	0.0000	0.0023	-0.0013	0.0307
2006	9-Jun	2 C	30	-0.0025	0.0011	-0.0006	0.0025	-0.0015	0.0347
2006	9-Jun	3 C	30	0.0000	0.0000	0.0000	0.0057	-0.0033	0.0436
2006	9-Jun	1 T	30	0.0000	0.0000	0.0000	0.0025	-0.0015	0.1399
2006	9-Jun	2 T	30	0.0000	0.0000	0.0000	0.0020	-0.0012	0.0871
2006	9-Jun	3 T	30	0.0000	0.0000	0.0000	0.0042	-0.0025	0.2902
2006	9-Jun	1 C	60	0.0000	0.0000	0.0000	0.0083	-0.0047	0.0233
2006	9-Jun	2 C	60	0.0000	0.0000	0.0000	0.0018	-0.0010	0.0049
2006	9-Jun	3 C	60	0.0000	0.0000	0.0000	0.0020	-0.0012	0.0313
2006	9-Jun	1 T	60	0.0000	0.0000	0.0000	0.0008	-0.0004	0.0172
2006	9-Jun	2 T	60	0.0000	0.0000	0.0000	0.0077	-0.0042	0.0487
2006	9-Jun	3 T	60	0.0000	0.0000	0.0000	0.0023	-0.0012	0.0901
2006	9-Jun	1 C	120	0.0000	0.0000	0.0000	0.0023	-0.0012	0.0235
2006	9-Jun	2 C	120	0.0000	0.0000	0.0000	0.0017	-0.0008	0.0476
2006	9-Jun	3 C	120	0.0000	0.0000	0.0000	0.0030	-0.0015	0.0169
2006	9-Jun	1 T	120	0.0000	0.0000	0.0000	0.0004	-0.0002	0.0150
2006	9-Jun	2 T	120	0.0000	0.0000	0.0000	0.0041	-0.0019	0.0481
2006	9-Jun	3 T	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0197
2006	9-Jun	1 C	200	0.0000	0.0008	-0.0003	0.0013	-0.0006	0.0102
2006	9-Jun	2 C	200	0.0000	0.0000	0.0000	0.0005	-0.0002	0.0187
2006	9-Jun	3 C	200	0.0000	0.0000	0.0000	0.0010	-0.0005	0.0127
2006	9-Jun	1 T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0059
2006	9-Jun	2 T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0240
2006	9-Jun	3 T	200	0.0000	0.0000	0.0000	0.0002	-0.0001	0.0132
2006	15-Jun	1 C	15	0.0000	0.0033	-0.0015	0.0023	-0.0010	0.0037
2006	15-Jun	2 C	15	-0.0008	0.0000	0.0000	0.0008	-0.0004	0.0970
2006	15-Jun	3 C	15	0.0000	0.0000	0.0000	0.0013	-0.0006	0.1309
2006	15-Jun	1 T	15	-0.0011	0.0000	0.0000	0.0036	-0.0017	0.4351
2006	15-Jun	2 T	15	0.0000	0.0000	0.0000	0.0049	-0.0023	0.1753
2006	15-Jun	3 T	15	0.0000	0.0000	0.0000	0.0020	-0.0009	0.0770

year	date	rep	trt	depth	Ti3349	V_2924	V_2924	Y_3710	Y_3710	Zn2062
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	15-Jun	1 C		30	0.0000	0.0000	0.0000	0.0044	-0.0020	0.0311
2006	15-Jun	2 C		30	-0.0031	0.0000	0.0000	0.0038	-0.0017	0.0774
2006	15-Jun	3 C		30	0.0000	0.0004	-0.0002	0.0057	-0.0026	0.0261

2006	15-Jun	1	T	30	0.0000	0.0000	0.0000	0.0032	-0.0015	0.0934
2006	15-Jun	2	T	30	0.0000	0.0005	-0.0002	0.0045	-0.0021	0.1401
2006	15-Jun	3	T	30	-0.0046	0.0001	-0.0001	0.0095	-0.0044	0.7814
2006	15-Jun	1	C	60	0.0000	0.0003	-0.0001	0.0108	-0.0050	0.0568
2006	15-Jun	2	C	60	0.0000	0.0000	0.0000	0.0011	-0.0005	0.0046
2006	15-Jun	3	C	60	0.0000	0.0000	0.0000	0.0022	-0.0010	0.0211
2006	15-Jun	1	T	60	0.0000	0.0026	-0.0012	0.0031	-0.0015	0.0151
2006	15-Jun	2	T	60	0.0000	0.0000	0.0000	0.0098	-0.0047	0.0264
2006	15-Jun	3	T	60	0.0000	0.0000	0.0000	0.0028	-0.0013	0.0703
2006	15-Jun	1	C	120	0.0000	0.0003	-0.0002	0.0040	-0.0019	0.0220
2006	15-Jun	2	C	120	0.0000	0.0000	0.0000	0.0022	-0.0010	0.0515
2006	15-Jun	3	C	120	0.0000	0.0006	-0.0003	0.0039	-0.0018	0.0222
2006	15-Jun	1	T	120	0.0000	0.0000	0.0000	0.0012	-0.0006	0.0284
2006	15-Jun	2	T	120	0.0000	0.0000	0.0000	0.0055	-0.0027	0.0452
2006	15-Jun	3	T	120	0.0000	0.0000	0.0000	0.0006	-0.0003	0.0275
2006	15-Jun	1	C	200	0.0000	0.0000	0.0000	0.0006	-0.0003	0.0140
2006	15-Jun	2	C	200	0.0000	0.0000	0.0000	0.0006	-0.0003	0.0172
2006	15-Jun	3	C	200	0.0000	0.0025	-0.0012	0.0019	-0.0009	0.0122
2006	15-Jun	1	T	200	0.0000	0.0024	-0.0011	0.0012	-0.0006	0.0026
2006	15-Jun	2	T	200	0.0000	0.0000	0.0000	0.0010	-0.0004	0.0208
2006	15-Jun	3	T	200	0.0000	0.0007	-0.0003	0.0008	-0.0003	0.0201
2006	22-Jun	1	C	15	0.0000	0.0000	0.0000	0.0038	-0.0017	0.2320
2006	22-Jun	2	C	15	0.0000	0.0000	0.0000	0.0021	-0.0009	0.0783
2006	22-Jun	3	C	15	0.0000	0.0004	-0.0002	0.0011	-0.0005	0.0822
2006	22-Jun	1	T	15	0.0000	0.0000	0.0000	0.0016	-0.0007	0.1607
2006	22-Jun	2	T	15	0.0000	0.0000	0.0000	0.0018	-0.0008	0.0851
2006	22-Jun	3	T	15	0.0000	0.0000	0.0000	0.0019	-0.0008	0.0812
2006	22-Jun	1	C	30	0.0000	0.0000	0.0000	0.0035	-0.0014	0.0501
2006	22-Jun	2	C	30	0.0000	0.0000	0.0000	0.0017	-0.0007	0.0162
2006	22-Jun	3	C	30	0.0000	0.0000	0.0000	0.0051	-0.0020	0.0239
2006	22-Jun	1	T	30	0.0000	0.0006	-0.0002	0.0027	-0.0011	0.1484
2006	22-Jun	2	T	30	0.0000	0.0000	0.0000	0.0056	-0.0023	0.3221
2006	22-Jun	3	T	30	-0.0008	0.0000	0.0000	0.0132	-0.0054	1.1072
2006	22-Jun	1	C	60	0.0000	0.0000	0.0000	0.0127	-0.0045	0.0400
2006	22-Jun	2	C	60	0.0000	0.0017	-0.0006	0.0043	-0.0015	0.0133
2006	22-Jun	3	C	60	0.0000	0.0003	-0.0001	0.0024	-0.0008	0.0225
2006	22-Jun	1	T	60	0.0000	0.0000	0.0000	0.0018	-0.0007	0.0253
2006	22-Jun	2	T	60	0.0000	0.0000	0.0000	0.0113	-0.0041	0.0719
2006	22-Jun	3	T	60	0.0000	0.0022	-0.0008	0.0057	-0.0020	0.0624
2006	22-Jun	1	C	120	0.0000	0.0000	0.0000	0.0024	-0.0008	0.0250
2006	22-Jun	2	C	120	0.0000	0.0000	0.0000	0.0020	-0.0007	0.0499
2006	22-Jun	3	C	120	0.0000	0.0004	-0.0001	0.0035	-0.0012	0.0466
2006	22-Jun	1	T	120	0.0000	0.0007	-0.0003	0.0014	-0.0005	0.0207

year	date	rep	trt	depth	Ti3349	V_2924	V_2924	Y_3710	Y_3710	Zn2062
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	22-Jun	2	T	120	0.0000	0.0000	0.0000	0.0061	-0.0023	0.0518
2006	22-Jun	3	T	120	0.0000	0.0000	0.0000	0.0019	-0.0007	0.0435
2006	22-Jun	1	C	200	0.0000	0.0005	-0.0002	0.0011	-0.0004	0.0126

2006	22-Jun	2	C	200	0.0000	0.0002	-0.0001	0.0008	-0.0003	0.0291
2006	22-Jun	3	C	200	0.0000	0.0000	0.0000	0.0006	-0.0003	0.0158
2006	22-Jun	1	T	200	0.0000	0.0016	-0.0007	0.0010	-0.0005	0.0075
2006	22-Jun	2	T	200	0.0000	0.0000	0.0000	0.0003	-0.0001	0.0366
2006	22-Jun	3	T	200	0.0000	0.0001	-0.0001	0.0014	-0.0007	0.0219
2006	29-Jun	1	C	15	0.0000	0.0000	0.0000	0.0020	-0.0018	0.2035
2006	29-Jun	2	C	15	0.0000	0.0003	-0.0003	0.0038	-0.0034	0.1352
2006	29-Jun	3	C	15	0.0000	0.0000	0.0000	0.0017	-0.0015	0.9303
2006	29-Jun	1	T	15	0.0000	0.0000	0.0000	0.0010	-0.0010	0.0712
2006	29-Jun	2	T	15	-0.0006	0.0000	0.0000	0.0007	-0.0006	0.2064
2006	29-Jun	3	T	15	0.0000	0.0000	0.0000	0.0009	-0.0009	0.0463
2006	29-Jun	1	C	30	0.0000	0.0014	-0.0012	0.0045	-0.0041	0.0483
2006	29-Jun	2	C	30	0.0000	0.0000	0.0000	0.0044	-0.0039	0.0475
2006	29-Jun	3	C	30	0.0000	0.0007	-0.0006	0.0068	-0.0061	0.0276
2006	29-Jun	1	T	30	0.0000	0.0000	0.0000	0.0013	-0.0012	0.0410
2006	29-Jun	2	T	30	0.0000	0.0000	0.0000	0.0068	-0.0063	0.3719
2006	29-Jun	3	T	30	0.0000	0.0006	-0.0005	0.0108	-0.0101	0.9271
2006	29-Jun	1	C	60	0.0000	0.0018	-0.0016	0.0150	-0.0135	0.0346
2006	29-Jun	2	C	60	0.0000	0.0000	0.0000	0.0027	-0.0024	0.0134
2006	29-Jun	3	C	60	0.0000	0.0000	0.0000	0.0028	-0.0025	0.0191
2006	29-Jun	1	T	60	0.0000	0.0000	0.0000	0.0026	-0.0024	0.0277
2006	29-Jun	2	T	60	0.0000	0.0053	-0.0048	0.0150	-0.0137	0.0661
2006	29-Jun	3	T	60	0.0000	0.0000	0.0000	0.0044	-0.0040	0.0570
2006	29-Jun	1	C	120	0.0000	0.0000	0.0000	0.0032	-0.0028	0.0306
2006	29-Jun	2	C	120	0.0000	0.0002	-0.0002	0.0026	-0.0023	0.0514
2006	29-Jun	3	C	120	0.0000	0.0015	-0.0013	0.0039	-0.0033	0.0364
2006	29-Jun	1	T	120	0.0000	0.0021	-0.0017	0.0028	-0.0023	0.0181
2006	29-Jun	2	T	120	0.0000	0.0004	-0.0003	0.0069	-0.0057	0.0579
2006	29-Jun	3	T	120	0.0000	0.0000	0.0000	0.0010	-0.0008	0.0324
2006	29-Jun	1	C	200	0.0000	0.0000	0.0000	0.0010	-0.0008	0.0244
2006	29-Jun	2	C	200	0.0000	0.0002	-0.0001	0.0002	-0.0001	0.0290
2006	29-Jun	3	C	200	0.0000	0.0000	0.0000	0.0009	-0.0007	0.0224
2006	29-Jun	1	T	200	0.0000	0.0006	-0.0004	0.0009	-0.0006	0.0097
2006	29-Jun	2	T	200	0.0000	0.0000	0.0000	0.0010	-0.0006	0.0296
2006	29-Jun	3	T	200	0.0000	0.0000	0.0000	0.0009	-0.0006	0.1395
2006	5-Jul	1	C	15	0.0000	0.0025	-0.0015	0.0037	-0.0021	0.0336
2006	5-Jul	2	C	15	0.0000	0.0000	0.0000	0.0010	-0.0006	0.0870
2006	5-Jul	3	C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.6383
2006	5-Jul	1	T	15	-0.0025	0.0000	0.0000	0.0001	-0.0001	0.1052
2006	5-Jul	2	T	15	-0.0011	0.0000	0.0000	0.0004	-0.0002	0.2073
2006	5-Jul	3	T	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.1266
2006	5-Jul	1	C	30	0.0000	0.0000	0.0000	0.0019	-0.0011	0.0354
2006	5-Jul	2	C	30	0.0000	0.0000	0.0000	0.0014	-0.0008	0.0271

year	date	rep	trt	depth	Ti3349	V_2924	V_2924	Y_3710	Y_3710	Zn2062
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	5-Jul	3	C	30	0.0000	0.0046	-0.0026	0.0079	-0.0045	0.0333
2006	5-Jul	1	T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0528
2006	5-Jul	2	T	30	0.0000	0.0000	0.0000	0.0052	-0.0030	0.3083

2006	5-Jul	3 T	30	0.0000	0.0000	0.0000	0.0026	-0.0015	0.3089
2006	5-Jul	1 C	60	0.0000	0.0000	0.0000	0.0162	-0.0085	0.0331
2006	5-Jul	2 C	60	0.0000	0.0000	0.0000	0.0013	-0.0007	0.0143
2006	5-Jul	3 C	60	0.0000	0.0000	0.0000	0.0020	-0.0010	0.0246
2006	5-Jul	1 T	60	-0.0053	0.0000	0.0000	0.0012	-0.0006	0.0659
2006	5-Jul	2 T	60	0.0000	0.0119	-0.0064	0.0209	-0.0113	0.0785
2006	5-Jul	3 T	60	0.0000	0.0000	0.0000	0.0049	-0.0027	0.0949
2006	5-Jul	1 C	120	0.0000	0.0000	0.0000	0.0028	-0.0013	0.0304
2006	5-Jul	2 C	120	-0.0008	0.0000	0.0000	0.0018	-0.0009	0.0980
2006	5-Jul	3 C	120	-0.0024	0.0000	0.0000	0.0048	-0.0023	0.0847
2006	5-Jul	1 T	120	-0.0039	0.0000	0.0000	0.0006	-0.0003	0.0611
2006	5-Jul	2 T	120	0.0000	0.0000	0.0000	0.0081	-0.0039	0.0664
2006	5-Jul	3 T	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0291
2006	5-Jul	1 C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0283
2006	5-Jul	2 C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0385
2006	5-Jul	3 C	200	0.0000	0.0000	0.0000	0.0001	0.0000	0.0250
2006	5-Jul	1 T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0080
2006	5-Jul	2 T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0363
2006	5-Jul	3 T	200	0.0000	0.0009	-0.0004	0.0019	-0.0009	0.0290
2006	13-Jul	1 C	15						
2006	13-Jul	2 C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0554
2006	13-Jul	3 C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.4633
2006	13-Jul	1 T	15	-0.0056	0.0000	0.0000	0.0004	-0.0005	0.1413
2006	13-Jul	2 T	15	0.0000	0.0000	0.0000	0.0002	-0.0002	0.0723
2006	13-Jul	3 T	15	0.0000	0.0000	0.0000	0.0031	-0.0037	0.0346
2006	13-Jul	1 C	30	0.0000	0.0000	0.0000	0.0023	-0.0027	0.0663
2006	13-Jul	2 C	30	0.0000	0.0000	0.0000	0.0026	-0.0031	0.0549
2006	13-Jul	3 C	30	0.0000	0.0000	0.0000	0.0043	-0.0050	0.0254
2006	13-Jul	1 T	30	0.0000	0.0000	0.0000	0.0002	-0.0002	0.0171
2006	13-Jul	2 T	30	0.0000	0.0000	0.0000	0.0022	-0.0026	0.2006
2006	13-Jul	3 T	30	0.0000	0.0000	0.0000	0.0014	-0.0017	0.1634
2006	13-Jul	1 C	60	0.0000	0.0000	0.0000	0.0213	-0.0242	0.0566
2006	13-Jul	2 C	60	0.0000	0.0000	0.0000	0.0002	-0.0002	0.0126
2006	13-Jul	3 C	60	0.0000	0.0000	0.0000	0.0021	-0.0024	0.0302
2006	13-Jul	1 T	60	0.0000	0.0000	0.0000	0.0017	-0.0020	0.0260
2006	13-Jul	2 T	60	0.0000	0.0000	0.0000	0.0140	-0.0159	0.1291
2006	13-Jul	3 T	60	0.0000	0.0000	0.0000	0.0069	-0.0078	0.2312
2006	13-Jul	1 C	120	0.0000	0.0000	0.0000	0.0020	-0.0021	0.0325
2006	13-Jul	2 C	120	0.0000	0.0033	-0.0034	0.0059	-0.0062	0.0481
2006	13-Jul	3 C	120	-0.0020	0.0000	0.0000	0.0033	-0.0034	0.2866
2006	13-Jul	1 T	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0197
2006	13-Jul	2 T	120	0.0000	0.0000	0.0000	0.0074	-0.0075	0.0575
2006	13-Jul	3 T	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0247

year	date	rep	trt	depth	Ti3349	V_2924	V_2924	Y_3710	Y_3710	Zn2062
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	13-Jul	1 C		200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0163
2006	13-Jul	2 C		200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0326
2006	13-Jul	3 C		200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0167

2006	13-Jul	1 T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0073
2006	13-Jul	2 T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0358
2006	13-Jul	3 T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0158
2006	20-Jul	1 C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0099
2006	20-Jul	2 C	15						
2006	20-Jul	3 C	15	0.0000	0.0000	0.0000	0.0005	-0.0002	0.0127
2006	20-Jul	1 T	15	-0.0005	0.0000	0.0000	0.0006	-0.0002	0.1826
2006	20-Jul	2 T	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0623
2006	20-Jul	3 T	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0286
2006	20-Jul	1 C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0150
2006	20-Jul	2 C	30	-0.0004	0.0001	0.0000	0.0005	-0.0002	0.1424
2006	20-Jul	3 C	30	0.0000	0.0000	0.0000	0.0080	-0.0033	0.0440
2006	20-Jul	1 T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0134
2006	20-Jul	2 T	30	0.0000	0.0000	0.0000	0.0009	-0.0004	0.1179
2006	20-Jul	3 T	30	-0.0053	0.0000	0.0000	0.0005	-0.0002	0.3793
2006	20-Jul	1 C	60	0.0000	0.0000	0.0000	0.0230	-0.0097	0.0439
2006	20-Jul	2 C	60	0.0000	0.0015	-0.0006	0.0051	-0.0021	0.0130
2006	20-Jul	3 C	60	0.0000	0.0000	0.0000	0.0024	-0.0010	0.0254
2006	20-Jul	1 T	60	0.0000	0.0000	0.0000	0.0003	-0.0001	0.0304
2006	20-Jul	2 T	60	0.0000	0.0034	-0.0016	0.0174	-0.0079	0.0355
2006	20-Jul	3 T	60	0.0000	0.0000	0.0000	0.0109	-0.0049	0.0519
2006	20-Jul	1 C	120	0.0000	0.0000	0.0000	0.0018	-0.0008	0.0325
2006	20-Jul	2 C	120	0.0000	0.0000	0.0000	0.0018	-0.0009	0.0818
2006	20-Jul	3 C	120	-0.0018	0.0000	0.0000	0.0032	-0.0015	0.1157
2006	20-Jul	1 T	120	0.0000	0.0000	0.0000	0.0002	-0.0001	0.0529
2006	20-Jul	2 T	120	0.0000	0.0000	0.0000	0.0080	-0.0043	0.0547
2006	20-Jul	3 T	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0207
2006	20-Jul	1 C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0210
2006	20-Jul	2 C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0317
2006	20-Jul	3 C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0267
2006	20-Jul	1 T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0122
2006	20-Jul	2 T	200	0.0000	0.0000	0.0000	0.0004	-0.0003	0.0334
2006	20-Jul	3 T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0306
2006	26-Jul	1 C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0087
2006	26-Jul	2 C	15						
2006	26-Jul	3 C	15	0.0000	0.0030	-0.0024	0.0009	-0.0007	0.0115
2006	26-Jul	1 T	15	0.0000	0.0003	-0.0003	0.0007	-0.0006	0.1878
2006	26-Jul	2 T	15	-0.0027	0.0000	0.0000	0.0004	-0.0003	0.1084
2006	26-Jul	3 T	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0453
2006	26-Jul	1 C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0250
2006	26-Jul	2 C	30	0.0000	0.0029	-0.0022	0.0012	-0.0009	0.0112
2006	26-Jul	3 C	30	0.0000	0.0014	-0.0010	0.0043	-0.0031	0.0794
2006	26-Jul	1 T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0285

year	date	rep	trt	depth	Ti3349	V_2924	V_2924	Y_3710	Y_3710	Zn2062
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	26-Jul	2 T		30	0.0000	0.0000	0.0000	0.0005	-0.0003	0.1236
2006	26-Jul	3 T		30	0.0000	0.0000	0.0000	0.0000	0.0000	0.1813
2006	26-Jul	1 C		60	0.0000	0.0000	0.0000	0.0247	-0.0158	0.0532

2006	26-Jul	2	C	60	0.0000	0.0055	-0.0035	0.0046	-0.0029	0.0114
2006	26-Jul	3	C	60	0.0000	0.0013	-0.0009	0.0028	-0.0018	0.0212
2006	26-Jul	1	T	60	0.0000	0.0000	0.0000	0.0009	-0.0005	0.0540
2006	26-Jul	2	T	60	0.0000	0.0054	-0.0033	0.0171	-0.0104	0.0370
2006	26-Jul	3	T	60	0.0000	0.0000	0.0000	0.0143	-0.0087	0.0735
2006	26-Jul	1	C	120	0.0000	0.0000	0.0000	0.0023	-0.0011	0.0237
2006	26-Jul	2	C	120	0.0000	0.0030	-0.0014	0.0029	-0.0014	0.0575
2006	26-Jul	3	C	120	0.0000	0.0026	-0.0013	0.0039	-0.0019	0.0640
2006	26-Jul	1	T	120	0.0000	0.0000	0.0000	0.0003	-0.0001	0.0320
2006	26-Jul	2	T	120	0.0000	0.0000	0.0000	0.0082	-0.0035	0.1257
2006	26-Jul	3	T	120	0.0000	0.0000	0.0000	0.0002	-0.0001	0.0226
2006	26-Jul	1	C	200	0.0000	0.0018	-0.0007	0.0006	-0.0002	0.0124
2006	26-Jul	2	C	200	0.0000	0.0022	-0.0009	0.0010	-0.0004	0.0288
2006	26-Jul	3	C	200	0.0000	0.0043	-0.0016	0.0015	-0.0006	0.0167
2006	26-Jul	1	T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0130
2006	26-Jul	2	T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0380
2006	26-Jul	3	T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0731
2006	3-Aug	1	C	15	0.0000	0.0028	-0.0004	0.0011	-0.0002	0.0129
2006	3-Aug	2	C	15	-0.0006	0.0010	-0.0001	0.0023	-0.0003	0.1004
2006	3-Aug	3	C	15	0.0000	0.0025	-0.0004	0.0011	-0.0002	0.0268
2006	3-Aug	1	T	15	-0.0007	0.0000	0.0000	0.0006	-0.0001	0.2628
2006	3-Aug	2	T	15	0.0000	0.0024	-0.0004	0.0013	-0.0002	0.1184
2006	3-Aug	3	T	15	0.0000	0.0018	-0.0003	0.0007	-0.0001	0.0255
2006	3-Aug	1	C	30	0.0000	0.0025	-0.0004	0.0010	-0.0001	0.0489
2006	3-Aug	2	C	30	0.0000	0.0028	-0.0004	0.0011	-0.0002	0.0376
2006	3-Aug	3	C	30	0.0000	0.0010	-0.0001	0.0039	-0.0005	0.0589
2006	3-Aug	1	T	30	0.0000	0.0024	-0.0004	0.0008	-0.0001	0.0413
2006	3-Aug	2	T	30	0.0000	0.0069	-0.0011	0.0037	-0.0006	0.0396
2006	3-Aug	3	T	30	-0.0012	0.0000	0.0000	0.0003	0.0000	0.1930
2006	3-Aug	1	C	60	0.0000	0.0026	-0.0004	0.0241	-0.0034	0.0531
2006	3-Aug	2	C	60	0.0000	0.0027	-0.0004	0.0023	-0.0003	0.0119
2006	3-Aug	3	C	60	0.0000	0.0017	-0.0002	0.0030	-0.0004	0.0628
2006	3-Aug	1	T	60	-0.0004	0.0000	0.0000	0.0004	-0.0001	0.0642
2006	3-Aug	2	T	60	0.0000	0.0026	-0.0005	0.0116	-0.0021	0.0851
2006	3-Aug	3	T	60	0.0000	0.0018	-0.0003	0.0138	-0.0025	0.1886
2006	3-Aug	1	C	120	0.0000	0.0023	-0.0005	0.0036	-0.0008	0.0317
2006	3-Aug	2	C	120	0.0000	0.0013	-0.0003	0.0019	-0.0004	0.0620
2006	3-Aug	3	C	120	-0.0013	0.0000	0.0000	0.0040	-0.0009	0.1209
2006	3-Aug	1	T	120	0.0000	0.0025	-0.0008	0.0015	-0.0005	0.0444
2006	3-Aug	2	T	120	0.0000	0.0017	-0.0005	0.0080	-0.0025	0.2531
2006	3-Aug	3	T	120	0.0000	0.0019	-0.0006	0.0015	-0.0005	0.0249
2006	3-Aug	1	C	200	0.0000	0.0058	-0.0024	0.0033	-0.0014	0.0285
2006	3-Aug	2	C	200	0.0000	0.0025	-0.0010	0.0010	-0.0004	0.0289

year	date	rep	trt	depth	Ti3349	V_2924	V_2924	Y_3710	Y_3710	Zn2062
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	3-Aug	3	C	200	0.0000	0.0023	-0.0010	0.0011	-0.0005	0.0266
2006	3-Aug	1	T	200	0.0000	0.0021	-0.0011	0.0008	-0.0004	0.0112
2006	3-Aug	2	T	200	0.0000	0.0018	-0.0009	0.0009	-0.0005	0.0297

2006	3-Aug	3 T	200	0.0000	0.0018	-0.0010	0.0008	-0.0004	0.0294
2006	10-Aug	1 C	15	0.0000	0.0065	-0.0011	0.0035	-0.0006	0.0109
2006	10-Aug	2 C	15	0.0000	0.0036	-0.0006	0.0015	-0.0003	0.0387
2006	10-Aug	3 C	15	0.0000	0.0029	-0.0005	0.0012	-0.0002	0.0219
2006	10-Aug	1 T	15	0.0000	0.0026	-0.0005	0.0014	-0.0002	0.2575
2006	10-Aug	2 T	15	0.0000	0.0026	-0.0005	0.0019	-0.0003	0.1040
2006	10-Aug	3 T	15	0.0000	0.0030	-0.0005	0.0014	-0.0002	0.0342
2006	10-Aug	1 C	30	0.0000	0.0024	-0.0004	0.0011	-0.0002	0.0162
2006	10-Aug	2 C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0119
2006	10-Aug	3 C	30	-0.0006	0.0000	0.0000	0.0036	-0.0005	0.0843
2006	10-Aug	1 T	30	0.0000	0.0037	-0.0006	0.0010	-0.0002	0.0147
2006	10-Aug	2 T	30	0.0000	0.0028	-0.0004	0.0014	-0.0002	0.0451
2006	10-Aug	3 T	30	0.0000	0.0030	-0.0005	0.0015	-0.0002	0.4046
2006	10-Aug	1 C	60	0.0000	0.0032	-0.0003	0.0221	-0.0024	0.0539
2006	10-Aug	2 C	60	0.0000	0.0040	-0.0004	0.0018	-0.0002	0.0132
2006	10-Aug	3 C	60	0.0000	0.0026	-0.0003	0.0036	-0.0004	0.0514
2006	10-Aug	1 T	60	0.0000	0.0023	-0.0003	0.0019	-0.0002	0.0206
2006	10-Aug	2 T	60	0.0000	0.0020	-0.0002	0.0120	-0.0013	0.0575
2006	10-Aug	3 T	60	0.0000	0.0043	-0.0005	0.0130	-0.0014	0.2312
2006	10-Aug	1 C	120	0.0000	0.0016	-0.0001	0.0038	-0.0003	0.0202
2006	10-Aug	2 C	120	0.0000	0.0058	-0.0004	0.0053	-0.0004	0.0571
2006	10-Aug	3 C	120	0.0000	0.0012	-0.0001	0.0040	-0.0003	0.0557
2006	10-Aug	1 T	120	0.0000	0.0070	-0.0007	0.0043	-0.0004	0.0218
2006	10-Aug	2 T	120	0.0000	0.0035	-0.0003	0.0086	-0.0008	0.1365
2006	10-Aug	3 T	120	0.0000	0.0025	-0.0002	0.0020	-0.0002	0.0224
2006	10-Aug	1 C	200	0.0000	0.0017	-0.0002	0.0009	-0.0001	0.0173
2006	10-Aug	2 C	200	0.0000	0.0028	-0.0004	0.0014	-0.0002	0.0279
2006	10-Aug	3 C	200	0.0000	0.0082	-0.0012	0.0046	-0.0007	0.0281
2006	10-Aug	1 T	200	0.0000	0.0041	-0.0008	0.0018	-0.0003	0.0064
2006	10-Aug	2 T	200	0.0000	0.0030	-0.0006	0.0011	-0.0002	0.0431
2006	10-Aug	3 T	200	0.0000	0.0027	-0.0005	0.0014	-0.0003	0.2212
2006	17-Aug	1 C	15	0.0000	0.0007	-0.0005	0.0006	-0.0005	0.0102
2006	17-Aug	2 C	15	-0.0032	0.0000	0.0000	0.0006	-0.0005	0.1078
2006	17-Aug	3 C	15	0.0000	0.0032	-0.0026	0.0013	-0.0011	0.0209
2006	17-Aug	1 T	15	0.0000	0.0037	-0.0029	0.0024	-0.0019	0.1042
2006	17-Aug	2 T	15	0.0000	0.0031	-0.0024	0.0016	-0.0013	0.1079
2006	17-Aug	3 T	15	0.0000	0.0043	-0.0034	0.0018	-0.0014	0.0294
2006	17-Aug	1 C	30	0.0000	0.0028	-0.0020	0.0015	-0.0011	0.0130
2006	17-Aug	2 C	30	0.0000	0.0025	-0.0018	0.0016	-0.0011	0.0115
2006	17-Aug	3 C	30	0.0000	0.0036	-0.0026	0.0038	-0.0027	0.0324
2006	17-Aug	1 T	30	0.0000	0.0036	-0.0024	0.0017	-0.0012	0.0081
2006	17-Aug	2 T	30	0.0000	0.0102	-0.0070	0.0052	-0.0035	0.0583
2006	17-Aug	3 T	30	0.0000	0.0032	-0.0022	0.0011	-0.0008	0.3021

year	date	rep	trt	depth	Ti3349	V_2924	V_2924	Y_3710	Y_3710	Zn2062
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	17-Aug	1 C		60	0.0000	0.0023	-0.0013	0.0202	-0.0114	0.0908
2006	17-Aug	2 C		60	0.0000	0.0018	-0.0010	0.0021	-0.0012	0.0123
2006	17-Aug	3 C		60	0.0000	0.0018	-0.0010	0.0033	-0.0019	0.0340

2006	17-Aug	1 T	60	0.0000	0.0036	-0.0017	0.0025	-0.0012	0.0220
2006	17-Aug	2 T	60	0.0000	0.0047	-0.0023	0.0121	-0.0059	0.0316
2006	17-Aug	3 T	60	0.0000	0.0022	-0.0011	0.0120	-0.0059	0.1291
2006	17-Aug	1 C	120	0.0000	0.0025	-0.0006	0.0023	-0.0006	0.0181
2006	17-Aug	2 C	120	0.0000	0.0028	-0.0007	0.0029	-0.0007	0.0528
2006	17-Aug	3 C	120	0.0000	0.0000	0.0000	0.0037	-0.0010	0.0605
2006	17-Aug	1 T	120	0.0000	0.0017	-0.0002	0.0015	-0.0002	0.0228
2006	17-Aug	2 T	120	0.0000	0.0021	-0.0003	0.0083	-0.0012	0.1071
2006	17-Aug	3 T	120	0.0000	0.0012	-0.0002	0.0017	-0.0002	0.0297
2006	17-Aug	1 C	200	0.0000	0.0090	-0.0009	0.0044	-0.0005	0.0040
2006	17-Aug	2 C	200	0.0000	0.0054	-0.0006	0.0020	-0.0002	0.0262
2006	17-Aug	3 C	200	0.0000	0.0034	-0.0003	0.0014	-0.0001	0.0191
2006	17-Aug	1 T	200	0.0000	0.0056	-0.0007	0.0024	-0.0003	0.0084
2006	17-Aug	2 T	200	-0.0008	0.0000	0.0000	0.0004	-0.0001	0.1059
2006	17-Aug	3 T	200	0.0000	0.0018	-0.0002	0.0014	-0.0002	0.0690
2006	24-Aug	1 C	15	0.0000	0.0030	-0.0017	0.0014	-0.0008	0.0052
2006	24-Aug	2 C	15	-0.0034	0.0000	0.0000	0.0000	0.0000	0.0362
2006	24-Aug	3 C	15	0.0000	0.0024	-0.0014	0.0009	-0.0005	0.0057
2006	24-Aug	1 T	15	0.0000	0.0041	-0.0024	0.0017	-0.0010	0.1963
2006	24-Aug	2 T	15	0.0000	0.0034	-0.0020	0.0019	-0.0011	0.0508
2006	24-Aug	3 T	15	0.0000	0.0028	-0.0016	0.0018	-0.0010	0.0252
2006	24-Aug	1 C	30	0.0000	0.0092	-0.0052	0.0043	-0.0024	0.0076
2006	24-Aug	2 C	30	0.0000	0.0029	-0.0017	0.0005	-0.0003	0.0043
2006	24-Aug	3 C	30	0.0000	0.0034	-0.0019	0.0036	-0.0020	0.0271
2006	24-Aug	1 T	30	0.0000	0.0025	-0.0014	0.0003	-0.0002	0.0092
2006	24-Aug	2 T	30	0.0000	0.0015	-0.0009	0.0008	-0.0004	0.0366
2006	24-Aug	3 T	30	0.0000	0.0023	-0.0013	0.0009	-0.0005	0.9971
2006	24-Aug	1 C	60	0.0000	0.0049	-0.0027	0.0208	-0.0113	0.0477
2006	24-Aug	2 C	60	0.0000	0.0030	-0.0016	0.0018	-0.0010	0.0051
2006	24-Aug	3 C	60	0.0000	0.0023	-0.0013	0.0021	-0.0012	0.0130
2006	24-Aug	1 T	60	0.0000	0.0000	0.0000	0.0002	-0.0001	0.0080
2006	24-Aug	2 T	60	0.0000	0.0032	-0.0017	0.0105	-0.0057	0.0527
2006	24-Aug	3 T	60	0.0000	0.0019	-0.0010	0.0192	-0.0105	0.1242
2006	24-Aug	1 C	120	0.0000	0.0042	-0.0022	0.0032	-0.0016	0.0085
2006	24-Aug	2 C	120	0.0000	0.0022	-0.0011	0.0024	-0.0012	0.0498
2006	24-Aug	3 C	120	0.0000	0.0026	-0.0013	0.0040	-0.0020	0.0763
2006	24-Aug	1 T	120	0.0000	0.0022	-0.0011	0.0031	-0.0016	0.0133
2006	24-Aug	2 T	120	0.0000	0.0041	-0.0021	0.0090	-0.0047	0.0340
2006	24-Aug	3 T	120	0.0000	0.0028	-0.0014	0.0018	-0.0009	0.0219
2006	24-Aug	1 C	200	0.0000	0.0042	-0.0019	0.0014	-0.0007	0.0089
2006	24-Aug	2 C	200	0.0000	0.0032	-0.0015	0.0016	-0.0007	0.0164
2006	24-Aug	3 C	200	0.0000	0.0060	-0.0028	0.0035	-0.0016	0.0191
2006	24-Aug	1 T	200	0.0000	0.0010	-0.0004	0.0012	-0.0004	0.0118

year	date	rep	trt	depth	Ti3349	V_2924	V_2924	Y_3710	Y_3710	Zn2062
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	24-Aug	2 T		200	-0.0008	0.0000	0.0000	0.0005	-0.0002	0.0589
2006	24-Aug	3 T		200	0.0000	0.0039	-0.0014	0.0018	-0.0007	0.0188
2006	31-Aug	1 C		15	0.0000	0.0044	-0.0020	0.0018	-0.0008	0.0050

2006	31-Aug	2	C	15						
2006	31-Aug	3	C	15	0.0000	0.0045	-0.0021	0.0016	-0.0007	0.0051
2006	31-Aug	1	T	15	0.0000	0.0031	-0.0015	0.0016	-0.0008	0.1213
2006	31-Aug	2	T	15	0.0000	0.0022	-0.0011	0.0019	-0.0010	0.0752
2006	31-Aug	3	T	15	0.0000	0.0029	-0.0014	0.0014	-0.0007	0.0182
2006	31-Aug	1	C	30	0.0000	0.0034	-0.0018	0.0012	-0.0006	0.0059
2006	31-Aug	2	C	30	0.0000	0.0013	-0.0007	0.0010	-0.0006	0.0126
2006	31-Aug	3	C	30	0.0000	0.0094	-0.0050	0.0054	-0.0029	0.0725
2006	31-Aug	1	T	30	0.0000	0.0032	-0.0018	0.0013	-0.0008	0.0060
2006	31-Aug	2	T	30	0.0000	0.0032	-0.0019	0.0013	-0.0008	0.0146
2006	31-Aug	3	T	30						
2006	31-Aug	1	C	60	0.0000	0.0020	-0.0013	0.0101	-0.0065	0.0581
2006	31-Aug	2	C	60	0.0000	0.0031	-0.0020	0.0016	-0.0010	0.0031
2006	31-Aug	3	C	60	0.0000	0.0064	-0.0041	0.0034	-0.0022	0.0114
2006	31-Aug	1	T	60	0.0000	0.0029	-0.0021	0.0015	-0.0010	0.0083
2006	31-Aug	2	T	60	0.0000	0.0029	-0.0021	0.0108	-0.0077	0.0374
2006	31-Aug	3	T	60	0.0000	0.0040	-0.0028	0.0157	-0.0111	0.0102
2006	31-Aug	1	C	120	0.0000	0.0042	-0.0033	0.0033	-0.0026	0.0127
2006	31-Aug	2	C	120	0.0000	0.0026	-0.0020	0.0030	-0.0024	0.0366
2006	31-Aug	3	C	120	0.0000	0.0031	-0.0024	0.0050	-0.0040	0.0384
2006	31-Aug	1	T	120	0.0000	0.0031	-0.0026	0.0016	-0.0013	0.0139
2006	31-Aug	2	T	120	0.0000	0.0032	-0.0026	0.0091	-0.0075	0.0739
2006	31-Aug	3	T	120	0.0000	0.0079	-0.0064	0.0045	-0.0037	0.0063
2006	31-Aug	1	C	200	0.0000	0.0044	-0.0035	0.0016	-0.0012	0.0063
2006	31-Aug	2	C	200	0.0000	0.0035	-0.0027	0.0011	-0.0009	0.0190
2006	31-Aug	3	C	200	0.0000	0.0050	-0.0040	0.0016	-0.0013	0.0080
2006	31-Aug	1	T	200	0.0000	0.0045	-0.0034	0.0015	-0.0011	0.0027
2006	31-Aug	2	T	200	-0.0027	0.0000	0.0000	0.0005	-0.0004	0.0294
2006	31-Aug	3	T	200	0.0000	0.0011	-0.0009	0.0016	-0.0012	0.0259
2006	7-Sep	1	C	15	0.0000	0.0183	-0.0003	0.0057	-0.0001	0.0151
2006	7-Sep	2	C	15	-0.0001	0.0000	0.0000	0.0007	0.0000	0.0702
2006	7-Sep	3	C	15	0.0000	0.0176	-0.0003	0.0061	-0.0001	0.0211
2006	7-Sep	1	T	15	0.0000	0.0037	-0.0001	0.0016	0.0000	0.2659
2006	7-Sep	2	T	15	0.0000	0.0030	-0.0001	0.0018	0.0000	0.0666
2006	7-Sep	3	T	15	0.0000	0.0187	-0.0004	0.0056	-0.0001	0.0307
2006	7-Sep	1	C	30	0.0000	0.0237	-0.0007	0.0073	-0.0002	0.0157
2006	7-Sep	2	C	30	0.0000	0.0236	-0.0007	0.0082	-0.0002	0.0112
2006	7-Sep	3	C	30	0.0000	0.0208	-0.0006	0.0080	-0.0002	0.0287
2006	7-Sep	1	T	30	0.0000	0.0027	-0.0001	0.0012	0.0000	0.0075
2006	7-Sep	2	T	30	0.0000	0.0042	-0.0002	0.0017	-0.0001	0.0847
2006	7-Sep	3	T	30	0.0000	0.0211	-0.0008	0.0059	-0.0002	0.1453
2006	7-Sep	1	C	60	0.0000	0.0210	-0.0010	0.0184	-0.0009	0.0695
2006	7-Sep	2	C	60	0.0000	0.0208	-0.0010	0.0068	-0.0003	0.0049

year	date	rep	trt	depth	Ti3349	V_2924	V_2924	Y_3710	Y_3710	Zn2062
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	7-Sep	3	C	60	0.0000	0.0193	-0.0009	0.0076	-0.0004	0.0267
2006	7-Sep	1	T	60	0.0000	0.0032	-0.0002	0.0019	-0.0001	0.0091
2006	7-Sep	2	T	60	0.0000	0.0037	-0.0003	0.0078	-0.0005	0.0353

2006	7-Sep	3 T	60	0.0000	0.0185	-0.0013	0.0161	-0.0011	0.0731
2006	7-Sep	1 C	120	0.0000	0.0180	-0.0023	0.0086	-0.0011	0.0148
2006	7-Sep	2 C	120	0.0000	0.0198	-0.0025	0.0070	-0.0009	0.0584
2006	7-Sep	3 C	120	0.0000	0.0192	-0.0024	0.0056	-0.0007	0.0414
2006	7-Sep	1 T	120	0.0000	0.0036	-0.0007	0.0018	-0.0003	0.0142
2006	7-Sep	2 T	120	0.0000	0.0237	-0.0044	0.0165	-0.0031	0.0616
2006	7-Sep	3 T	120	0.0000	0.0239	-0.0044	0.0092	-0.0017	0.0099
2006	7-Sep	1 C	200	0.0000	0.0181	-0.0045	0.0055	-0.0014	0.0082
2006	7-Sep	2 C	200	0.0000	0.0190	-0.0047	0.0059	-0.0015	0.0247
2006	7-Sep	3 C	200	0.0000	0.0206	-0.0051	0.0088	-0.0022	0.0316
2006	7-Sep	1 T	200	0.0000	0.0062	-0.0021	0.0019	-0.0007	0.0022
2006	7-Sep	2 T	200	0.0000	0.0194	-0.0066	0.0064	-0.0022	0.0234
2006	7-Sep	3 T	200	0.0000	0.0182	-0.0062	0.0060	-0.0020	0.0513
2006	14-Sep	1 C	15	0.0000	0.0256	-0.0016	0.0091	-0.0006	0.0084
2006	14-Sep	2 C	15	0.0000	0.0204	-0.0012	0.0064	-0.0004	0.0737
2006	14-Sep	3 C	15	0.0000	0.0197	-0.0012	0.0069	-0.0004	0.4885
2006	14-Sep	1 T	15	0.0000	0.0191	-0.0012	0.0073	-0.0004	0.4740
2006	14-Sep	2 T	15	0.0000	0.0197	-0.0012	0.0062	-0.0004	0.1063
2006	14-Sep	3 T	15	0.0000	0.0183	-0.0011	0.0063	-0.0004	0.0478
2006	14-Sep	1 C	30	0.0000	0.0227	-0.0014	0.0068	-0.0004	0.0222
2006	14-Sep	2 C	30	0.0000	0.0195	-0.0012	0.0059	-0.0004	0.0120
2006	14-Sep	3 C	30	0.0000	0.0218	-0.0013	0.0088	-0.0005	0.0813
2006	14-Sep	1 T	30	0.0000	0.0213	-0.0013	0.0062	-0.0004	0.0113
2006	14-Sep	2 T	30	0.0000	0.0200	-0.0013	0.0064	-0.0004	0.0328
2006	14-Sep	3 T	30	0.0000	0.0204	-0.0013	0.0058	-0.0004	0.1319
2006	14-Sep	1 C	60	0.0000	0.0197	-0.0012	0.0178	-0.0011	0.0496
2006	14-Sep	2 C	60	0.0000	0.0137	-0.0008	0.0050	-0.0003	0.0054
2006	14-Sep	3 C	60	0.0000	0.0268	-0.0016	0.0116	-0.0007	0.0225
2006	14-Sep	1 T	60	0.0000	0.0214	-0.0015	0.0064	-0.0004	0.0116
2006	14-Sep	2 T	60	0.0000	0.0191	-0.0013	0.0130	-0.0009	0.0169
2006	14-Sep	3 T	60	0.0000	0.0201	-0.0014	0.0157	-0.0011	0.1202
2006	14-Sep	1 C	120	0.0000	0.0198	-0.0016	0.0082	-0.0006	0.0193
2006	14-Sep	2 C	120	0.0000	0.0210	-0.0017	0.0079	-0.0006	0.0397
2006	14-Sep	3 C	120	0.0000	0.0000	0.0000	0.0028	-0.0002	0.0677
2006	14-Sep	1 T	120	0.0000	0.0249	-0.0026	0.0094	-0.0010	0.0169
2006	14-Sep	2 T	120	0.0000	0.0180	-0.0018	0.0131	-0.0013	0.0367
2006	14-Sep	3 T	120	0.0000	0.0192	-0.0020	0.0060	-0.0006	0.0131
2006	14-Sep	1 C	200	0.0000	0.0201	-0.0026	0.0058	-0.0008	0.0093
2006	14-Sep	2 C	200	0.0000	0.0210	-0.0028	0.0066	-0.0009	0.0157
2006	14-Sep	3 C	200	0.0000	0.0220	-0.0029	0.0072	-0.0009	0.0143
2006	14-Sep	1 T	200	0.0000	0.0223	-0.0040	0.0064	-0.0011	0.0025
2006	14-Sep	2 T	200	0.0000	0.0191	-0.0034	0.0059	-0.0010	0.0231
2006	14-Sep	3 T	200	0.0000	0.0200	-0.0036	0.0058	-0.0010	0.0177

year	date	rep	trt	depth	Ti3349	V_2924	V_2924	Y_3710	Y_3710	Zn2062
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	21-Sep	1 C		15	0.0000	0.0204	-0.0013	0.0067	-0.0004	0.0074
2006	21-Sep	2 C		15	-0.0003	0.0000	0.0000	0.0035	-0.0002	0.1907
2006	21-Sep	3 C		15	0.0000	0.0235	-0.0015	0.0077	-0.0005	0.1875

2006	21-Sep	1	T	15	0.0000	0.0198	-0.0013	0.0095	-0.0006	0.9039
2006	21-Sep	2	T	15	0.0000	0.0208	-0.0014	0.0086	-0.0006	0.1784
2006	21-Sep	3	T	15	0.0000	0.0261	-0.0017	0.0102	-0.0007	0.1412
2006	21-Sep	1	C	30	0.0000	0.0202	-0.0016	0.0062	-0.0005	0.0181
2006	21-Sep	2	C	30	0.0000	0.0204	-0.0016	0.0065	-0.0005	0.0069
2006	21-Sep	3	C	30	0.0000	0.0217	-0.0017	0.0079	-0.0006	0.0252
2006	21-Sep	1	T	30	0.0000	0.0198	-0.0016	0.0071	-0.0006	0.0145
2006	21-Sep	2	T	30	0.0000	0.0208	-0.0017	0.0062	-0.0005	0.0106
2006	21-Sep	3	T	30	0.0000	0.0216	-0.0018	0.0072	-0.0006	0.3782
2006	21-Sep	1	C	60	0.0000	0.0216	-0.0020	0.0184	-0.0017	0.0978
2006	21-Sep	2	C	60	0.0000	0.0198	-0.0018	0.0064	-0.0006	0.0036
2006	21-Sep	3	C	60	0.0000	0.0209	-0.0019	0.0077	-0.0007	0.0114
2006	21-Sep	1	T	60	0.0000	0.0228	-0.0023	0.0070	-0.0007	0.0078
2006	21-Sep	2	T	60	0.0000	0.0199	-0.0020	0.0129	-0.0013	0.0460
2006	21-Sep	3	T	60	0.0000	0.0204	-0.0020	0.0172	-0.0017	0.0478
2006	21-Sep	1	C	120	0.0000	0.0210	-0.0020	0.0092	-0.0009	0.0259
2006	21-Sep	2	C	120	0.0000	0.0273	-0.0026	0.0117	-0.0011	0.0362
2006	21-Sep	3	C	120	-0.0008	0.0020	-0.0002	0.0050	-0.0005	0.1079
2006	21-Sep	1	T	120	0.0000	0.0205	-0.0021	0.0072	-0.0007	0.0159
2006	21-Sep	2	T	120	0.0000	0.0208	-0.0021	0.0139	-0.0014	0.0319
2006	21-Sep	3	T	120	0.0000	0.0207	-0.0021	0.0071	-0.0007	0.0097
2006	21-Sep	1	C	200	0.0000	0.0195	-0.0020	0.0061	-0.0006	0.0041
2006	21-Sep	2	C	200	0.0000	0.0222	-0.0023	0.0072	-0.0007	0.0204
2006	21-Sep	3	C	200	0.0000	0.0233	-0.0024	0.0067	-0.0007	0.0510
2006	21-Sep	1	T	200	0.0000	0.0196	-0.0025	0.0060	-0.0008	0.0080
2006	21-Sep	2	T	200	0.0000	0.0200	-0.0026	0.0064	-0.0008	0.0160
2006	21-Sep	3	T	200	0.0000	0.0156	-0.0020	0.0051	-0.0007	0.1681
2006	28-Sep	1	C	15	0.0000	0.0033	-0.0006	0.0015	-0.0003	0.0188
2006	28-Sep	2	C	15	0.0000	0.0003	-0.0001	0.0068	-0.0012	0.5404
2006	28-Sep	3	C	15	0.0000	0.0000	0.0000	0.0010	-0.0002	0.1436
2006	28-Sep	1	T	15	0.0000	0.0194	-0.0035	0.0080	-0.0014	0.5935
2006	28-Sep	2	T	15	0.0000	0.0208	-0.0037	0.0103	-0.0018	0.2392
2006	28-Sep	3	T	15	0.0000	0.0020	-0.0003	0.0031	-0.0005	0.2885
2006	28-Sep	1	C	30	0.0000	0.0034	-0.0005	0.0019	-0.0003	0.0244
2006	28-Sep	2	C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0134
2006	28-Sep	3	C	30	0.0000	0.0023	-0.0004	0.0024	-0.0004	0.0413
2006	28-Sep	1	T	30	0.0000	0.0227	-0.0034	0.0067	-0.0010	0.0109
2006	28-Sep	2	T	30	0.0000	0.0032	-0.0005	0.0015	-0.0002	0.0445
2006	28-Sep	3	T	30	0.0000	0.0020	-0.0003	0.0014	-0.0002	0.2859
2006	28-Sep	1	C	60	0.0000	0.0017	-0.0002	0.0111	-0.0013	0.1758
2006	28-Sep	2	C	60	0.0000	0.0000	0.0000	0.0006	-0.0001	0.0279
2006	28-Sep	3	C	60	0.0000	0.0016	-0.0002	0.0010	-0.0001	0.0091
2006	28-Sep	1	T	60	0.0000	0.0213	-0.0024	0.0072	-0.0008	0.0100

year	date	rep	trt	depth	Ti3349	V_2924	V_2924	Y_3710	Y_3710	Zn2062
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	28-Sep	2	T	60	0.0000	0.0032	-0.0004	0.0080	-0.0009	0.0169
2006	28-Sep	3	T	60	0.0000	0.0037	-0.0004	0.0120	-0.0013	0.0641
2006	28-Sep	1	C	120	0.0000	0.0036	-0.0003	0.0052	-0.0004	0.0214

2006	28-Sep	2	C	120	0.0000	0.0055	-0.0005	0.0047	-0.0004	0.0395
2006	28-Sep	3	C	120	-0.0002	0.0003	0.0000	0.0048	-0.0004	0.0310
2006	28-Sep	1	T	120	0.0000	0.0217	-0.0020	0.0065	-0.0006	0.0137
2006	28-Sep	2	T	120	0.0000	0.0031	-0.0003	0.0089	-0.0008	0.0465
2006	28-Sep	3	T	120	0.0000	0.0025	-0.0002	0.0015	-0.0001	0.0296
2006	28-Sep	1	C	200	0.0000	0.0044	-0.0004	0.0008	-0.0001	0.0173
2006	28-Sep	2	C	200	0.0000	0.0015	-0.0001	0.0005	0.0000	0.0216
2006	28-Sep	3	C	200	0.0000	0.0002	0.0000	0.0001	0.0000	0.0314
2006	28-Sep	1	T	200	0.0000	0.0213	-0.0024	0.0059	-0.0007	0.0096
2006	28-Sep	2	T	200	0.0000	0.0028	-0.0003	0.0015	-0.0002	0.0262
2006	28-Sep	3	T	200	0.0000	0.0035	-0.0004	0.0019	-0.0002	0.0281
2006	5-Oct	1	C	15	0.0000	0.0019	-0.0006	0.0015	-0.0005	0.0098
2006	5-Oct	2	C	15	0.0000	0.0000	0.0000	0.0038	-0.0013	0.3088
2006	5-Oct	3	C	15	0.0000	0.0000	0.0000	0.0012	-0.0004	0.3583
2006	5-Oct	1	T	15	0.0000	0.0000	0.0000	0.0006	-0.0002	0.3334
2006	5-Oct	2	T	15	0.0000	0.0000	0.0000	0.0021	-0.0007	0.1816
2006	5-Oct	3	T	15	0.0000	0.0006	-0.0002	0.0006	-0.0002	0.1228
2006	5-Oct	1	C	30	0.0000	0.0000	0.0000	0.0014	-0.0004	0.0409
2006	5-Oct	2	C	30	0.0000	0.0000	0.0000	0.0010	-0.0003	0.0178
2006	5-Oct	3	C	30	0.0000	0.0014	-0.0004	0.0025	-0.0007	0.0171
2006	5-Oct	1	T	30	0.0000	0.0073	-0.0020	0.0045	-0.0012	0.0139
2006	5-Oct	2	T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0263
2006	5-Oct	3	T	30	0.0000	0.0014	-0.0004	0.0009	-0.0002	0.6461
2006	5-Oct	1	C	60	0.0000	0.0014	-0.0003	0.0115	-0.0027	0.0933
2006	5-Oct	2	C	60	0.0000	0.0000	0.0000	0.0009	-0.0002	0.1829
2006	5-Oct	3	C	60	0.0000	0.0053	-0.0013	0.0047	-0.0011	0.0242
2006	5-Oct	1	T	60	0.0000	0.0000	0.0000	0.0011	-0.0003	0.0075
2006	5-Oct	2	T	60	0.0000	0.0000	0.0000	0.0090	-0.0020	0.0205
2006	5-Oct	3	T	60	0.0000	0.0015	-0.0003	0.0117	-0.0026	0.0242
2006	5-Oct	1	C	120	-0.0011	0.0000	0.0000	0.0034	-0.0005	0.0734
2006	5-Oct	2	C	120	0.0000	0.0001	0.0000	0.0020	-0.0003	0.0299
2006	5-Oct	3	C	120	0.0000	0.0002	0.0000	0.0042	-0.0007	0.0910
2006	5-Oct	1	T	120	-0.0007	0.0000	0.0000	0.0010	-0.0001	0.0195
2006	5-Oct	2	T	120	0.0000	0.0000	0.0000	0.0077	-0.0010	0.0660
2006	5-Oct	3	T	120	0.0000	0.0000	0.0000	0.0007	-0.0001	0.0305
2006	5-Oct	1	C	200	0.0000	0.0000	0.0000	0.0003	0.0000	0.0086
2006	5-Oct	2	C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0396
2006	5-Oct	3	C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.2044
2006	5-Oct	1	T	200	0.0000	0.0045	-0.0005	0.0015	-0.0002	0.0047
2006	5-Oct	2	T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0194
2006	5-Oct	3	T	200	0.0000	0.0118	-0.0012	0.0062	-0.0006	0.1611
2006	12-Oct	1	C	15	0.0000	0.0016	-0.0002	0.0005	-0.0001	0.0187
2006	12-Oct	2	C	15	0.0000	0.0024	-0.0003	0.0009	-0.0001	0.0971

year	date	rep	trt	depth	Ti3349	V_2924	V_2924	Y_3710	Y_3710	Zn2062
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	12-Oct	3	C	15	0.0000	0.0019	-0.0003	0.0011	-0.0001	0.2027
2006	12-Oct	1	T	15	0.0000	0.0025	-0.0003	0.0013	-0.0002	0.1454
2006	12-Oct	2	T	15	0.0000	0.0000	0.0000	0.0019	-0.0002	0.1666

2006	12-Oct	3 T	15	0.0000	0.0054	-0.0007	0.0057	-0.0008	0.1959
2006	12-Oct	1 C	30	0.0000	0.0008	-0.0001	0.0032	-0.0004	0.0692
2006	12-Oct	2 C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0159
2006	12-Oct	3 C	30	0.0000	0.0024	-0.0003	0.0029	-0.0003	0.0242
2006	12-Oct	1 T	30	0.0000	0.0017	-0.0002	0.0016	-0.0002	0.0214
2006	12-Oct	2 T	30	0.0000	0.0002	0.0000	0.0017	-0.0002	0.0438
2006	12-Oct	3 T	30	0.0000	0.0005	-0.0001	0.0018	-0.0002	0.3729
2006	12-Oct	1 C	60	0.0000	0.0005	0.0000	0.0094	-0.0009	0.0553
2006	12-Oct	2 C	60	0.0000	0.0000	0.0000	0.0018	-0.0002	0.0260
2006	12-Oct	3 C	60	0.0000	0.0018	-0.0002	0.0012	-0.0001	0.0135
2006	12-Oct	1 T	60	0.0000	0.0002	0.0000	0.0006	-0.0001	0.0088
2006	12-Oct	2 T	60	0.0000	0.0000	0.0000	0.0062	-0.0007	0.0272
2006	12-Oct	3 T	60	0.0000	0.0008	-0.0001	0.0099	-0.0011	0.0714
2006	12-Oct	1 C	120	0.0000	0.0000	0.0000	0.0035	-0.0005	0.0372
2006	12-Oct	2 C	120	0.0000	0.0004	-0.0001	0.0020	-0.0003	0.0480
2006	12-Oct	3 C	120	0.0000	0.0000	0.0000	0.0035	-0.0005	0.0262
2006	12-Oct	1 T	120	0.0000	0.0021	-0.0003	0.0014	-0.0002	0.0126
2006	12-Oct	2 T	120	0.0000	0.0011	-0.0002	0.0097	-0.0015	0.0517
2006	12-Oct	3 T	120	0.0000	0.0019	-0.0003	0.0009	-0.0001	0.0211
2006	12-Oct	1 C	200	0.0000	0.0013	-0.0002	0.0001	0.0000	0.0215
2006	12-Oct	2 C	200	0.0000	0.0000	0.0000	0.0001	0.0000	0.0154
2006	12-Oct	3 C	200	0.0000	0.0019	-0.0003	0.0000	0.0000	0.2289
2006	12-Oct	1 T	200	0.0000	0.0024	-0.0003	0.0006	-0.0001	0.0045
2006	12-Oct	2 T	200	0.0000	0.0004	0.0000	0.0000	0.0000	0.0364
2006	12-Oct	3 T	200	0.0000	0.0000	0.0000	0.0006	-0.0001	0.0192
2006	19-Oct	1 C	15	0.0000	0.0005	-0.0002	0.0000	0.0000	0.0093
2006	19-Oct	2 C	15	-0.0018	0.0000	0.0000	0.0010	-0.0005	0.1552
2006	19-Oct	3 C	15	0.0000	0.0034	-0.0016	0.0018	-0.0009	0.1349
2006	19-Oct	1 T	15	0.0000	0.0002	-0.0001	0.0007	-0.0003	0.0974
2006	19-Oct	2 T	15	0.0000	0.0063	-0.0028	0.0044	-0.0019	0.1918
2006	19-Oct	3 T	15	0.0000	0.0017	-0.0008	0.0011	-0.0005	0.1848
2006	19-Oct	1 C	30	0.0000	0.0034	-0.0014	0.0039	-0.0016	0.0711
2006	19-Oct	2 C	30	0.0000	0.0028	-0.0011	0.0012	-0.0005	0.0081
2006	19-Oct	3 C	30	0.0000	0.0021	-0.0008	0.0028	-0.0011	0.1679
2006	19-Oct	1 T	30	0.0000	0.0012	-0.0004	0.0021	-0.0007	0.0267
2006	19-Oct	2 T	30	0.0000	0.0044	-0.0015	0.0033	-0.0012	0.0376
2006	19-Oct	3 T	30	-0.0018	0.0000	0.0000	0.0034	-0.0012	0.3975
2006	19-Oct	1 C	60	0.0000	0.0000	0.0000	0.0085	-0.0023	0.0672
2006	19-Oct	2 C	60	0.0000	0.0027	-0.0007	0.0010	-0.0003	0.0050
2006	19-Oct	3 C	60	0.0000	0.0032	-0.0008	0.0027	-0.0007	0.0114
2006	19-Oct	1 T	60	0.0000	0.0002	0.0000	0.0011	-0.0002	0.0081
2006	19-Oct	2 T	60	0.0000	0.0000	0.0000	0.0057	-0.0011	0.0340
2006	19-Oct	3 T	60	0.0000	0.0007	-0.0001	0.0107	-0.0021	0.0634

year	date	rep	trt	depth	Ti3349	V_2924	V_2924	Y_3710	Y_3710	Zn2062
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	19-Oct	1 C		120	-0.0003	0.0000	0.0000	0.0032	-0.0004	0.0531
2006	19-Oct	2 C		120	0.0000	0.0017	-0.0002	0.0027	-0.0004	0.0283
2006	19-Oct	3 C		120	-0.0011	0.0000	0.0000	0.0035	-0.0005	0.0474

2006	19-Oct	1	T	120	0.0000	0.0015	-0.0002	0.0000	0.0000	0.0040
2006	19-Oct	2	T	120	0.0000	0.0009	-0.0001	0.0085	-0.0011	0.0399
2006	19-Oct	3	T	120	0.0000	0.0010	-0.0001	0.0007	-0.0001	0.0204
2006	19-Oct	1	C	200	0.0000	0.0034	-0.0004	0.0013	-0.0002	0.0137
2006	19-Oct	2	C	200	0.0000	0.0026	-0.0003	0.0005	-0.0001	0.0302
2006	19-Oct	3	C	200	0.0000	0.0032	-0.0004	0.0004	-0.0001	0.0424
2006	19-Oct	1	T	200	0.0000	0.0006	-0.0001	0.0015	-0.0002	0.0160
2006	19-Oct	2	T	200	0.0000	0.0009	-0.0001	0.0007	-0.0001	0.0158
2006	19-Oct	3	T	200	0.0000	0.0000	0.0000	0.0002	0.0000	0.0244
2006	26-Oct	1	C	15	0.0000	0.0000	0.0000	0.0001	-0.0001	0.0106
2006	26-Oct	2	C	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0568
2006	26-Oct	3	C	15	0.0000	0.0000	0.0000	0.0004	-0.0006	0.0297
2006	26-Oct	1	T	15	0.0000	0.0047	-0.0077	0.0010	-0.0016	0.0705
2006	26-Oct	2	T	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.1016
2006	26-Oct	3	T	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0282
2006	26-Oct	1	C	30	-0.0099	0.0000	0.0000	0.0048	-0.0080	0.1141
2006	26-Oct	2	C	30	0.0000	0.0001	-0.0002	0.0006	-0.0009	0.0097
2006	26-Oct	3	C	30	-0.0034	0.0000	0.0000	0.0032	-0.0054	0.0542
2006	26-Oct	1	T	30	0.0000	0.0025	-0.0043	0.0021	-0.0036	0.0291
2006	26-Oct	2	T	30	0.0000	0.0000	0.0000	0.0004	-0.0006	0.0142
2006	26-Oct	3	T	30	0.0000	0.0000	0.0000	0.0008	-0.0014	0.2133
2006	26-Oct	1	C	60	0.0000	0.0035	-0.0059	0.0101	-0.0170	0.0360
2006	26-Oct	2	C	60	0.0000	0.0000	0.0000	0.0011	-0.0019	0.0058
2006	26-Oct	3	C	60	0.0000	0.0000	0.0000	0.0016	-0.0026	0.0125
2006	26-Oct	1	T	60	0.0000	0.0023	-0.0041	0.0024	-0.0042	0.0095
2006	26-Oct	2	T	60	0.0000	0.0000	0.0000	0.0130	-0.0228	0.0241
2006	26-Oct	3	T	60	0.0000	0.0000	0.0000	0.0038	-0.0067	0.0182
2006	26-Oct	1	C	120	0.0000	0.0000	0.0000	0.0021	-0.0033	0.0151
2006	26-Oct	2	C	120	0.0000	0.0000	0.0000	0.0018	-0.0029	0.0697
2006	26-Oct	3	C	120	0.0000	0.0000	0.0000	0.0046	-0.0073	0.0179
2006	26-Oct	1	T	120	0.0000	0.0000	0.0000	0.0013	-0.0021	0.0094
2006	26-Oct	2	T	120	-0.0104	0.0000	0.0000	0.0082	-0.0132	0.1392
2006	26-Oct	3	T	120	0.0000	0.0000	0.0000	0.0000	0.0000	0.0529
2006	26-Oct	1	C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0075
2006	26-Oct	2	C	200	-0.0059	0.0000	0.0000	0.0003	-0.0004	0.0346
2006	26-Oct	3	C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.2864
2006	26-Oct	1	T	200	0.0000	0.0022	-0.0029	0.0001	-0.0002	0.0027
2006	26-Oct	2	T	200	-0.0033	0.0000	0.0000	0.0004	-0.0005	0.0210
2006	26-Oct	3	T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0162
2006	2-Nov	1	C	15	0.0000	0.0039	0.0002	0.0032	0.0001	0.0078
2006	2-Nov	2	C	15	0.0000	0.0001	0.0000	0.0010	0.0000	0.0205
2006	2-Nov	3	C	15	0.0000	0.0000	0.0000	0.0003	0.0000	0.0726
2006	2-Nov	1	T	15	0.0000	0.0000	0.0000	0.0001	0.0000	0.0636

year	date	rep	trt	depth	Ti3349	V_2924	V_2924	Y_3710	Y_3710	Zn2062
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	2-Nov	2	T	15	0.0000	0.0000	0.0000	0.0007	0.0000	0.0611
2006	2-Nov	3	T	15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0487
2006	2-Nov	1	C	30	0.0000	0.0006	0.0000	0.0024	0.0000	0.0615

2006	2-Nov	2	C	30	0.0000	0.0000	0.0000	0.0006	0.0000	0.0566
2006	2-Nov	3	C	30	0.0000	0.0000	0.0000	0.0030	0.0000	0.0272
2006	2-Nov	1	T	30	0.0000	0.0053	-0.0002	0.0040	-0.0001	0.0295
2006	2-Nov	2	T	30	0.0000	0.0000	0.0000	0.0010	0.0000	0.0143
2006	2-Nov	3	T	30	0.0000	0.0000	0.0000	0.0004	0.0000	0.3382
2006	2-Nov	1	C	60	0.0000	0.0000	0.0000	0.0081	-0.0005	0.0587
2006	2-Nov	2	C	60	0.0000	0.0012	-0.0001	0.0013	-0.0001	0.0074
2006	2-Nov	3	C	60	0.0000	0.0000	0.0000	0.0012	-0.0001	0.0388
2006	2-Nov	1	T	60	0.0000	0.0001	0.0000	0.0031	-0.0003	0.0143
2006	2-Nov	2	T	60	0.0000	0.0013	-0.0001	0.0072	-0.0007	0.0249
2006	2-Nov	3	T	60	0.0000	0.0000	0.0000	0.0041	-0.0004	0.0697
2006	2-Nov	1	C	120	0.0000	0.0000	0.0000	0.0034	-0.0005	0.0518
2006	2-Nov	2	C	120	0.0000	0.0000	0.0000	0.0015	-0.0002	0.0335
2006	2-Nov	3	C	120	-0.0002	0.0000	0.0000	0.0038	-0.0005	0.0314
2006	2-Nov	1	T	120	0.0000	0.0000	0.0000	0.0009	-0.0002	0.0156
2006	2-Nov	2	T	120	0.0000	0.0001	0.0000	0.0090	-0.0018	0.0333
2006	2-Nov	3	T	120	0.0000	0.0000	0.0000	0.0007	-0.0001	0.0506
2006	2-Nov	1	C	200	0.0000	0.0000	0.0000	0.0008	-0.0002	0.0099
2006	2-Nov	2	C	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0743
2006	2-Nov	3	C	200	0.0000	0.0000	0.0000	0.0009	-0.0003	0.0652
2006	2-Nov	1	T	200	0.0000	0.0001	0.0000	0.0007	-0.0003	0.0046
2006	2-Nov	2	T	200	0.0000	0.0000	0.0000	0.0001	0.0000	0.0186
2006	2-Nov	3	T	200	0.0000	0.0000	0.0000	0.0002	-0.0001	0.0792
2006	9-Nov	1	C	15	0.0000	0.0000	0.0000	0.0002	-0.0001	0.0083
2006	9-Nov	2	C	15	-0.0033	0.0000	0.0000	0.0003	-0.0001	0.0264
2006	9-Nov	3	C	15	0.0000	0.0000	0.0000	0.0002	-0.0001	0.0554
2006	9-Nov	1	T	15	0.0000	0.0000	0.0000	0.0009	-0.0004	0.0572
2006	9-Nov	2	T	15	0.0000	0.0000	0.0000	0.0009	-0.0004	0.2485
2006	9-Nov	3	T	15	-0.0027	0.0000	0.0000	0.0004	-0.0002	0.1066
2006	9-Nov	1	C	30	0.0000	0.0000	0.0000	0.0028	-0.0009	0.1507
2006	9-Nov	2	C	30	0.0000	0.0000	0.0000	0.0009	-0.0003	0.0058
2006	9-Nov	3	C	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	9-Nov	1	T	30	-0.0016	0.0016	-0.0005	0.0028	-0.0008	0.0913
2006	9-Nov	2	T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	9-Nov	3	T	30	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2006	9-Nov	1	C	60	0.0000	0.0000	0.0000	0.0044	-0.0004	0.0433
2006	9-Nov	2	C	60	-0.0003	0.0002	0.0000	0.0008	-0.0001	0.0250
2006	9-Nov	3	C	60	0.0000	0.0000	0.0000	0.0009	-0.0001	0.0403
2006	9-Nov	1	T	60	-0.0001	0.0000	0.0000	0.0027	-0.0001	0.0292
2006	9-Nov	2	T	60	-0.0002	0.0000	0.0000	0.0129	-0.0004	0.0407
2006	9-Nov	3	T	60						
2006	9-Nov	1	C	120	0.0000	0.0040	0.0000	0.0066	-0.0001	0.0795
2006	9-Nov	2	C	120	0.0000	0.0004	0.0000	0.0019	0.0000	0.0348

year	date	rep	trt	depth	Ti3349	V_2924	V_2924	Y_3710	Y_3710	Zn2062
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	9-Nov	3	C	120	0.0000	0.0000	0.0000	0.0036	0.0000	0.0349
2006	9-Nov	1	T	120	0.0000	0.0000	0.0000	0.0005	0.0000	0.0110
2006	9-Nov	2	T	120	0.0000	0.0000	0.0000	0.0078	-0.0003	0.0370

2006	9-Nov	3	T	120	0.0000	0.0000	0.0000	0.0004	0.0000	0.0290
2006	9-Nov	1	C	200	0.0000	0.0000	0.0000	0.0001	0.0000	0.0131
2006	9-Nov	2	C	200	0.0000	0.0000	0.0000	0.0005	-0.0001	0.0706
2006	9-Nov	3	C	200	0.0000	0.0000	0.0000	0.0005	-0.0001	0.0417
2006	9-Nov	1	T	200	0.0000	0.0000	0.0000	0.0001	0.0000	0.0047
2006	9-Nov	2	T	200	0.0000	0.0000	0.0000	0.0004	-0.0001	0.0175
2006	9-Nov	3	T	200	0.0000	0.0000	0.0000	0.0009	-0.0001	0.0612
2006	16-Nov	1	C	15	0.0000	0.0048	-0.0028	0.0030	-0.0017	0.0101
2006	16-Nov	2	C	15	0.0000	0.0000	0.0000	0.0005	-0.0003	0.0197
2006	16-Nov	3	C	15	0.0000	0.0004	-0.0002	0.0004	-0.0002	0.0260
2006	16-Nov	1	T	15	0.0000	0.0004	-0.0003	0.0007	-0.0004	0.0427
2006	16-Nov	2	T	15	0.0000	0.0000	0.0000	0.0009	-0.0005	0.0645
2006	16-Nov	3	T	15	0.0000	0.0000	0.0000	0.0006	-0.0003	0.0581
2006	16-Nov	1	C	30	0.0000	0.0000	0.0000	0.0024	-0.0013	0.0333
2006	16-Nov	2	C	30	0.0000	0.0002	-0.0001	0.0004	-0.0002	0.0063
2006	16-Nov	3	C	30	0.0000	0.0001	-0.0001	0.0016	-0.0009	0.1773
2006	16-Nov	1	T	30	0.0000	0.0001	0.0000	0.0007	-0.0004	0.1373
2006	16-Nov	2	T	30	0.0000	0.0006	-0.0004	0.0015	-0.0009	0.0225
2006	16-Nov	3	T	30	0.0000	0.0000	0.0000	0.0003	-0.0002	0.1184
2006	16-Nov	1	C	60	0.0000	0.0000	0.0000	0.0061	-0.0034	0.0384
2006	16-Nov	2	C	60	0.0000	0.0000	0.0000	0.0008	-0.0004	0.0689
2006	16-Nov	3	C	60	0.0000	0.0045	-0.0025	0.0042	-0.0023	0.0047
2006	16-Nov	1	T	60	0.0000	0.0000	0.0000	0.0008	-0.0005	0.0125
2006	16-Nov	2	T	60	0.0000	0.0000	0.0000	0.0041	-0.0023	0.0189
2006	16-Nov	3	T	60	0.0000	0.0000	0.0000	0.0029	-0.0016	0.0581
2006	16-Nov	1	C	120	0.0000	0.0000	0.0000	0.0027	-0.0007	0.0183
2006	16-Nov	2	C	120	0.0000	0.0000	0.0000	0.0019	-0.0005	0.0438
2006	16-Nov	3	C	120	0.0000	0.0023	-0.0006	0.0053	-0.0013	0.0282
2006	16-Nov	1	T	120	0.0000	0.0045	-0.0007	0.0041	-0.0007	0.0151
2006	16-Nov	2	T	120	0.0000	0.0000	0.0000	0.0079	-0.0013	0.0808
2006	16-Nov	3	T	120	0.0000	0.0000	0.0000	0.0013	-0.0002	0.0169
2006	16-Nov	1	C	200	0.0000	0.0006	0.0000	0.0002	0.0000	0.0403
2006	16-Nov	2	C	200	0.0000	0.0000	0.0000	0.0005	0.0000	0.0537
2006	16-Nov	3	C	200	0.0000	0.0000	0.0000	0.0004	0.0000	0.0391
2006	16-Nov	1	T	200	0.0000	0.0017	-0.0002	0.0007	-0.0001	0.0038
2006	16-Nov	2	T	200	0.0000	0.0000	0.0000	0.0005	0.0000	0.0186
2006	16-Nov	3	T	200	0.0000	0.0000	0.0000	0.0000	0.0000	0.1216
2006	23-Nov	1	C	15	0.0000	0.0000	0.0000	0.0005	-0.0001	0.0252
2006	23-Nov	2	C	15	0.0000	0.0000	0.0000	0.0002	-0.0001	0.0084
2006	23-Nov	3	C	15	0.0000	0.0000	0.0000	0.0007	-0.0002	0.0683
2006	23-Nov	1	T	15	0.0000	0.0003	-0.0001	0.0008	-0.0002	0.0384
2006	23-Nov	2	T	15	0.0000	0.0013	-0.0003	0.0014	-0.0004	0.0506
2006	23-Nov	3	T	15	0.0000	0.0013	-0.0003	0.0011	-0.0003	0.0616

year	date	rep	trt	depth	Ti3349	V_2924	V_2924	Y_3710	Y_3710	Zn2062
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	23-Nov	1	C	30	0.0000	0.0000	0.0000	0.0027	-0.0007	0.0700
2006	23-Nov	2	C	30	0.0000	0.0079	-0.0020	0.0041	-0.0010	0.0019
2006	23-Nov	3	C	30	0.0000	0.0010	-0.0003	0.0025	-0.0006	0.1133

2006	23-Nov	1	T	30	0.0000	0.0000	0.0000	0.0008	-0.0002	0.0219
2006	23-Nov	2	T	30	0.0000	0.0000	0.0000	0.0009	-0.0002	0.0172
2006	23-Nov	3	T	30	0.0000	0.0003	-0.0001	0.0006	-0.0001	0.0481
2006	23-Nov	1	C	60	0.0000	0.0000	0.0000	0.0069	-0.0016	0.0257
2006	23-Nov	2	C	60	0.0000	0.0003	-0.0001	0.0008	-0.0002	0.0039
2006	23-Nov	3	C	60	0.0000	0.0001	0.0000	0.0012	-0.0003	0.0080
2006	23-Nov	1	T	60	0.0000	0.0039	-0.0011	0.0051	-0.0014	0.0060
2006	23-Nov	2	T	60	0.0000	0.0000	0.0000	0.0031	-0.0008	0.0118
2006	23-Nov	3	T	60	0.0000	0.0000	0.0000	0.0041	-0.0011	0.0360
2006	23-Nov	1	C	120	0.0000	0.0000	0.0000	0.0027	-0.0007	0.0431
2006	23-Nov	2	C	120	0.0000	0.0000	0.0000	0.0030	-0.0008	0.0355
2006	23-Nov	3	C	120	0.0000	0.0000	0.0000	0.0042	-0.0011	0.0254
2006	23-Nov	1	T	120	0.0000	0.0000	0.0000	0.0010	-0.0003	0.0080
2006	23-Nov	2	T	120	0.0000	0.0003	-0.0001	0.0091	-0.0026	0.0317
2006	23-Nov	3	T	120	0.0000	0.0000	0.0000	0.0015	-0.0004	0.0171
2006	23-Nov	1	C	200	0.0000	0.0000	0.0000	0.0005	-0.0001	0.0238
2006	23-Nov	2	C	200	0.0000	0.0001	0.0000	0.0002	0.0000	0.0207
2006	23-Nov	3	C	200	0.0000	0.0021	-0.0005	0.0005	-0.0001	0.0321
2006	23-Nov	1	T	200	0.0000	0.0024	-0.0005	0.0011	-0.0002	0.0019
2006	23-Nov	2	T	200	0.0000	0.0059	-0.0011	0.0037	-0.0007	0.0169
2006	23-Nov	3	T	200	0.0000	0.0005	-0.0001	0.0007	-0.0001	0.1238
2006	30-Nov	1	C	15	0.0000	0.0042	-0.0013	0.0047	-0.0014	0.0121
2006	30-Nov	2	C	15	0.0000	0.0015	-0.0005	0.0016	-0.0005	0.0420
2006	30-Nov	3	C	15	0.0000	0.0004	-0.0001	0.0008	-0.0002	0.0196
2006	30-Nov	1	T	15	0.0000	0.0000	0.0000	0.0004	-0.0001	0.8171
2006	30-Nov	2	T	15	0.0000	0.0000	0.0000	0.0010	-0.0003	0.0448
2006	30-Nov	3	T	15	0.0000	0.0002	-0.0001	0.0007	-0.0002	0.0898
2006	30-Nov	1	C	30	0.0000	0.0023	-0.0007	0.0033	-0.0010	0.0634
2006	30-Nov	2	C	30	0.0000	0.0007	-0.0002	0.0003	-0.0001	0.0027
2006	30-Nov	3	C	30	0.0000	0.0003	-0.0001	0.0024	-0.0007	0.1692
2006	30-Nov	1	T	30	0.0000	0.0000	0.0000	0.0009	-0.0003	0.0574
2006	30-Nov	2	T	30	0.0000	0.0001	0.0000	0.0011	-0.0004	0.0265
2006	30-Nov	3	T	30	0.0000	0.0028	-0.0009	0.0026	-0.0008	0.1948
2006	30-Nov	1	C	60	0.0000	0.0008	-0.0002	0.0075	-0.0022	0.0146
2006	30-Nov	2	C	60	0.0000	0.0003	-0.0001	0.0009	-0.0002	0.0012
2006	30-Nov	3	C	60	0.0000	0.0064	-0.0019	0.0054	-0.0016	0.0134
2006	30-Nov	1	T	60	0.0000	0.0000	0.0000	0.0017	-0.0005	0.0095
2006	30-Nov	2	T	60	0.0000	0.0004	-0.0001	0.0040	-0.0012	0.0298
2006	30-Nov	3	T	60	0.0000	0.0000	0.0000	0.0048	-0.0014	0.0647
2006	30-Nov	1	C	120	0.0000	0.0008	-0.0002	0.0053	-0.0013	0.2054
2006	30-Nov	2	C	120	0.0000	0.0008	-0.0002	0.0024	-0.0006	0.0384
2006	30-Nov	3	C	120	0.0000	0.0000	0.0000	0.0046	-0.0011	0.0231
2006	30-Nov	1	T	120	0.0000	0.0033	-0.0008	0.0046	-0.0011	0.0110

year	date	rep	trt	depth	Ti3349	V_2924	V_2924	Y_3710	Y_3710	Zn2062
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	30-Nov	2	T	120	0.0000	0.0001	0.0000	0.0098	-0.0023	0.0281
2006	30-Nov	3	T	120	0.0000	0.0000	0.0000	0.0014	-0.0003	0.0147
2006	30-Nov	1	C	200	0.0000	0.0004	-0.0001	0.0004	-0.0001	0.0071

2006	30-Nov	2	C	200	0.0000	0.0010	-0.0002	0.0012	-0.0003	0.0149
2006	30-Nov	3	C	200	0.0000	0.0000	0.0000	0.0009	-0.0002	0.1366
2006	30-Nov	1	T	200	0.0000	0.0030	-0.0007	0.0018	-0.0004	0.0007
2006	30-Nov	2	T	200	0.0000	0.0007	-0.0002	0.0013	-0.0003	0.0142
2006	30-Nov	3	T	200	0.0000	0.0000	0.0000	0.0009	-0.0002	0.0401
2006	7-Dec	1	T	15						
2006	7-Dec	2	T	15						
2006	7-Dec	3	T	15	-0.0003	0.0000	0.0000	0.0004	0.0000	0.0645
2006	7-Dec	1	C	30	0.0000	0.0022	0.0000	0.0024	0.0000	0.1021
2006	7-Dec	2	C	30	-0.0001	0.0000	0.0000	0.0004	0.0000	0.1742
2006	7-Dec	3	C	30						
2006	7-Dec	1	T	30	0.0000	0.0008	0.0000	0.0016	0.0000	0.0060
2006	7-Dec	2	T	30	0.0000	0.0000	0.0000	0.0013	0.0000	0.0482
2006	7-Dec	3	T	30	0.0001	0.0026	0.0000	0.0027	0.0000	0.4965
2006	7-Dec	1	C	60	0.0000	0.0005	0.0000	0.0072	0.0001	0.0340
2006	7-Dec	2	C	60	0.0000	0.0000	0.0000	0.0006	0.0000	0.0194
2006	7-Dec	3	C	60	0.0000	0.0001	0.0000	0.0019	0.0000	0.2465
2006	7-Dec	1	T	60	0.0000	0.0007	0.0000	0.0032	0.0000	0.0174
2006	7-Dec	2	T	60	0.0000	0.0000	0.0000	0.0066	-0.0001	0.0310
2006	7-Dec	3	T	60	0.0000	0.0005	0.0000	0.0060	-0.0001	0.0529
2006	7-Dec	1	C	120	0.0000	0.0000	0.0000	0.0056	-0.0004	0.0550
2006	7-Dec	2	C	120	0.0000	0.0021	-0.0001	0.0029	-0.0002	0.0383
2006	7-Dec	3	C	120	0.0000	0.0000	0.0000	0.0040	-0.0003	0.0563
2006	7-Dec	1	T	120	0.0000	0.0005	0.0000	0.0012	-0.0001	0.0086
2006	7-Dec	2	T	120	0.0000	0.0011	-0.0001	0.0115	-0.0012	0.0370
2006	7-Dec	3	T	120	0.0000	0.0031	-0.0003	0.0078	-0.0008	0.0265
2006	7-Dec	1	C	200	0.0000	0.0010	-0.0002	0.0010	-0.0002	0.0066
2006	7-Dec	2	C	200	0.0000	0.0020	-0.0004	0.0006	-0.0001	0.0328
2006	7-Dec	3	C	200	0.0000	0.0000	0.0000	0.0007	-0.0001	0.0398
2006	7-Dec	1	T	200	0.0000	0.0019	-0.0004	0.0014	-0.0003	0.0027
2006	7-Dec	2	T	200	0.0000	0.0006	-0.0001	0.0002	0.0000	0.0160
2006	7-Dec	3	T	200	0.0000	0.0002	0.0000	0.0016	-0.0003	0.0413
2006	14-Dec	1	C	15	0.0000	0.0018	0.0000	0.0010	0.0000	0.0023
2006	14-Dec	2	C	15	0.0001	0.0008	0.0000	0.0011	0.0000	0.0784
2006	14-Dec	3	C	15	0.0000	0.0012	0.0000	0.0002	0.0000	0.0144
2006	14-Dec	1	T	15	0.0000	0.0004	0.0000	0.0008	0.0000	0.0585
2006	14-Dec	2	T	15	0.0000	0.0007	0.0000	0.0011	0.0000	0.0745
2006	14-Dec	3	T	15	0.0000	0.0012	0.0000	0.0014	0.0000	0.1520
2006	14-Dec	1	C	30	0.0000	0.0005	0.0000	0.0038	-0.0001	0.0601
2006	14-Dec	2	C	30	0.0000	0.0021	-0.0001	0.0014	0.0000	0.0090
2006	14-Dec	3	C	30	-0.0002	0.0020	-0.0001	0.0031	-0.0001	0.6905
2006	14-Dec	1	T	30	0.0000	0.0000	0.0000	0.0009	-0.0001	0.0111
2006	14-Dec	2	T	30	0.0000	0.0012	-0.0001	0.0024	-0.0002	0.0642

year	date	rep	trt	depth	Ti3349	V_2924	V_2924	Y_3710	Y_3710	Zn2062
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	ug/ml
2006	14-Dec	3	T	30	0.0000	0.0003	0.0000	0.0010	-0.0001	0.3665
2006	14-Dec	1	C	60	0.0000	0.0013	-0.0001	0.0054	-0.0005	0.0334
2006	14-Dec	2	C	60	0.0000	0.0005	0.0000	0.0011	-0.0001	0.0029

2006	14-Dec	3	C	60	0.0000	0.0018	-0.0002	0.0017	-0.0002	0.0539
2006	14-Dec	1	T	60	0.0000	0.0074	-0.0006	0.0072	-0.0006	0.0085
2006	14-Dec	2	T	60	0.0000	0.0023	-0.0002	0.0045	-0.0004	0.0205
2006	14-Dec	3	T	60	0.0000	0.0000	0.0000	0.0053	-0.0004	0.0201
2006	14-Dec	1	C	120	0.0000	0.0004	0.0000	0.0059	-0.0003	0.0191
2006	14-Dec	2	C	120	0.0000	0.0030	-0.0002	0.0029	-0.0001	0.0307
2006	14-Dec	3	C	120	0.0000	0.0113	-0.0006	0.0108	-0.0005	0.0341
2006	14-Dec	1	T	120	0.0000	0.0019	-0.0001	0.0021	-0.0001	0.0093
2006	14-Dec	2	T	120	0.0000	0.0007	0.0000	0.0112	-0.0007	0.0288
2006	14-Dec	3	T	120	0.0000	0.0000	0.0000	0.0017	-0.0001	0.0143
2006	14-Dec	1	C	200	0.0000	0.0094	-0.0009	0.0043	-0.0004	0.0076
2006	14-Dec	2	C	200	0.0000	0.0015	-0.0001	0.0000	0.0000	0.0233
2006	14-Dec	3	C	200	0.0000	0.0019	-0.0002	0.0016	-0.0002	0.0272
2006	14-Dec	1	T	200	0.0000	0.0032	-0.0004	0.0010	-0.0001	0.0000
2006	14-Dec	2	T	200	0.0000	0.0006	-0.0001	0.0009	-0.0001	0.0159
2006	14-Dec	3	T	200	0.0000	0.0034	-0.0004	0.0020	-0.0003	0.0164

year	date	rep	trt	depth	Zn2062	NH4-N	NH4-N	nitrate	nitrate	pH
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	
2006	21-Apr	1	C	15	-0.0003	0.0000	0.0000	0.0000	0.0000	4.67
2006	21-Apr	2	C	15	-0.0011	0.0000	0.0000	3.5601	-0.2779	4.57
2006	21-Apr	3	C	15	-0.0013	0.1202	-0.0094	2.0439	-0.1595	4.53
2006	21-Apr	1	T	15	-0.0015	0.0708	-0.0050	0.4319	-0.0308	4.64

2006	21-Apr	2 T	15	-0.1105	0.0000	0.0000	16.8783	-1.2035	4.22
2006	21-Apr	3 T	15	-0.0018	0.0038	-0.0003	0.0807	-0.0058	
2006	21-Apr	1 C	30	-0.0097	0.0460	-0.0019	1.6684	-0.0694	4.83
2006	21-Apr	2 C	30	-0.0097	0.0028	-0.0001	0.2571	-0.0107	4.19
2006	21-Apr	3 C	30						
2006	21-Apr	1 T	30	-0.0004	0.0000	0.0000	0.3550	-0.0131	4.69
2006	21-Apr	2 T	30						
2006	21-Apr	3 T	30	-0.0127	0.0121	-0.0004	1.2020	-0.0443	4.85
2006	21-Apr	1 C	60						
2006	21-Apr	2 C	60	-0.0003	0.0000	0.0000	0.7138	-0.0157	4.84
2006	21-Apr	3 C	60	-0.0010		0.0000		0.0000	4.12
2006	27-Apr	1 C	15	-0.0040	0.0000	0.0000	0.0013	-0.0015	4.44
2006	27-Apr	2 C	15	-0.0237	0.0198	-0.0228	4.7352	-5.4565	4.87
2006	27-Apr	3 C	15	-0.0182	0.2268	-0.2614	2.8583	-3.2937	4.91
2006	27-Apr	1 T	15	-0.0077	0.0100	-0.0114	0.6888	-0.7849	4.12
2006	27-Apr	2 T	15	-0.0995	0.0000	0.0000	8.1335	-9.2686	4.99
2006	27-Apr	3 T	15	-0.0221	0.0050	-0.0057	0.5671	-0.6462	4.07
2006	27-Apr	1 C	30	-0.0416	0.0000	0.0000	3.2991	-3.5769	5.1
2006	27-Apr	2 C	30	-0.0223	0.0029	-0.0031	0.3180	-0.3448	4.28
2006	27-Apr	3 C	30	-0.2102	0.0007	-0.0008	3.1116	-3.3737	4.15
2006	27-Apr	1 T	30	-0.0549	0.0079	-0.0084	0.7928	-0.8422	4.66
2006	27-Apr	2 T	30	-0.1126	0.0000	0.0000	15.5178	-16.4840	4.19
2006	27-Apr	3 T	30	-0.1898	0.0000	0.0000	6.9710	-7.4050	4.88
2006	27-Apr	1 C	60	-0.4172	0.2032	-0.1844	6.2055	-5.6319	4.39
2006	27-Apr	2 C	60	-0.0028	0.0000	0.0000	0.5898	-0.5353	4.55
2006	27-Apr	3 C	60	-0.0223	0.0000	0.0000	3.8069	-3.4550	4.07
2006	27-Apr	1 T	60	-0.0120	0.0000	0.0000	0.5582	-0.4482	4.66
2006	27-Apr	2 T	60	-0.5905	0.0000	0.0000	16.5777	-13.3112	3.93
2006	27-Apr	3 T	60	-0.1036	0.0340	-0.0273	3.6555	-2.9352	4.15
2006	27-Apr	1 C	120	-0.0142	0.0329	-0.0128	2.8196	-1.0965	4.22
2006	27-Apr	2 C	120	-0.0248	0.0082	-0.0032	2.7986	-1.0884	4.56
2006	27-Apr	3 C	120	-0.0982	0.0275	-0.0107	5.9885	-2.3289	4.11
2006	27-Apr	1 T	120	-0.0029	0.0934	-0.0133	2.9171	-0.4154	4.67
2006	27-Apr	2 T	120						
2006	27-Apr	3 T	120	-0.0311	0.0061	-0.0009	1.1877	-0.1692	4.18
2006	27-Apr	1 C	200	-0.0002	0.2234	-0.0007	0.2444	-0.0008	4.29
2006	27-Apr	2 C	200	-0.0001	0.0329	-0.0001	0.5786	-0.0019	4.33
2006	27-Apr	3 C	200	-0.0001	0.0190	-0.0001	0.7163	-0.0024	4.41
2006	27-Apr	1 T	200	-0.0001	0.0000	0.0000	0.4403	-0.0009	4.42
2006	27-Apr	2 T	200						
2006	27-Apr	3 T	200	-0.0005	0.0672	-0.0001	0.9304	-0.0020	4.54
2006	4-May	1 C	15	-0.0018	0.0000	0.0000	1.7506	-0.8051	4.71
2006	4-May	2 C	15	-0.0092	0.0190	-0.0087	4.5130	-2.0754	4.6

year	date	rep	trt	depth cm	Zn2062 kg/ha	NH4-N ug/ml	NH4-N kg/ha	nitrate ug/ml	nitrate kg/ha	pH
2006	4-May	3 C		15	-0.0095	0.3393	-0.1560	5.0113	-2.3046	4.38
2006	4-May	1 T		15	-0.0141	1.5746	-0.7723	6.2840	-3.0823	4.93
2006	4-May	2 T		15	-0.0653	0.0232	-0.0114	4.3581	-2.1376	4.89
2006	4-May	3 T		15	-0.0161	1.6088	-0.7891	4.4093	-2.1627	3.76

2006	4-May	1	C	30	-0.0029	0.0000	0.0000	4.5985	-2.1026	4.42
2006	4-May	2	C	30	-0.0053	0.0350	-0.0160	0.9150	-0.4184	4
2006	4-May	3	C	30	-0.0098	0.0000	0.0000	4.9038	-2.2422	4.07
2006	4-May	1	T	30	-0.0039	0.0693	-0.0330	0.9585	-0.4568	4.18
2006	4-May	2	T	30	-0.0104	0.0000	0.0000	17.0423	-8.1213	4.4
2006	4-May	3	T	30	-0.0559	0.0243	-0.0116	5.4739	-2.6085	4.16
2006	4-May	1	C	60	-0.0172	0.2568	-0.1173	6.4424	-2.9433	4.06
2006	4-May	2	C	60	-0.0020	0.0297	-0.0136	0.5044	-0.2304	4.37
2006	4-May	3	C	60	-0.0150	0.0000	0.0000	3.5049	-1.6013	4.05
2006	4-May	1	T	60	-0.0033	0.0072	-0.0033	1.2248	-0.5620	4.24
2006	4-May	2	T	60	-0.0809	0.0000	0.0000	16.8102	-7.7129	3.79
2006	4-May	3	T	60	-0.0482	0.1968	-0.0903	6.0042	-2.7549	4.08
2006	4-May	1	C	120	-0.0068	0.1047	-0.0458	4.7720	-2.0878	4.02
2006	4-May	2	C	120	-0.0273	0.0425	-0.0186	2.3088	-1.0101	4.51
2006	4-May	3	C	120	-0.0121	0.0000	0.0000	5.7448	-2.5134	4.14
2006	4-May	1	T	120	-0.0053	0.0168	-0.0072	2.2098	-0.9433	4.13
2006	4-May	2	T	120						
2006	4-May	3	T	120	-0.0062	0.0000	0.0000	1.9363	-0.8266	4
2006	4-May	1	C	200	-0.0012	0.0000	0.0000	0.0358	-0.0031	4.13
2006	4-May	2	C	200	-0.0021	0.0168	-0.0014	0.4964	-0.0423	4.36
2006	4-May	3	C	200	-0.0014	0.0000	0.0000	0.6768	-0.0577	4.14
2006	4-May	1	T	200	0.0000	0.1004	-0.0003	0.1932	-0.0006	4.25
2006	4-May	2	T	200						
2006	4-May	3	T	200	0.0000	0.0522	-0.0002	1.0251	-0.0030	4.3
2006	12-May	1	C	15	-0.0025	0.0000	0.0000	3.0515	-2.6659	4.41
2006	12-May	2	C	15	0.0000	0.0000	0.0000	17.3482	-15.1558	4.72
2006	12-May	3	C	15	-0.0168	0.2193	-0.1916	4.7284	-4.1308	4.91
2006	12-May	1	T	15	-0.2509	53.3085	-46.4052	27.5257	-23.9612	4.55
2006	12-May	2	T	15	-0.1230	0.0232	-0.0202	5.9359	-5.1672	.
2006	12-May	3	T	15	-0.0620	7.9124	-6.8877	24.7790	-21.5702	4.68
2006	12-May	1	C	30	-0.0115	0.0286	-0.0248	5.7236	-4.9603	4.53
2006	12-May	2	C	30	0.0000	0.0000	0.0000	4.1817	-3.6240	.
2006	12-May	3	C	30	-0.0396	0.0757	-0.0656	6.3524	-5.5052	4.06
2006	12-May	1	T	30	-0.0351	0.0725	-0.0631	3.1601	-2.7493	4.15
2006	12-May	2	T	30	-0.0456	0.1325	-0.1153	17.9556	-15.6214	4.26
2006	12-May	3	T	30	-0.0974	0.0115	-0.0100	5.0099	-4.3586	4.05
2006	12-May	1	C	60	-0.0182	0.4464	-0.3880	5.8427	-5.0785	4.24
2006	12-May	2	C	60	-0.0041	0.0000	0.0000	2.7925	-2.4273	.
2006	12-May	3	C	60	-0.0115	0.0000	0.0000	3.6248	-3.1507	4.05
2006	12-May	1	T	60	-0.0132	0.1507	-0.1304	2.7040	-2.3387	4.35
2006	12-May	2	T	60	-0.0479	0.0000	0.0000	15.4393	-13.3536	3.9
2006	12-May	3	T	60	-0.0395	0.1582	-0.1369	5.8619	-5.0700	4.14

year	date	rep	trt	depth cm	Zn2062 kg/ha	NH4-N ug/ml	NH4-N kg/ha	nitrate ug/ml	nitrate kg/ha	pH
2006	12-May	1	C	120	-0.0139	0.0907	-0.0801	4.4254	-3.9068	4.11
2006	12-May	2	C	120						
2006	12-May	3	C	120	-0.0162	0.0000	0.0000	5.2734	-4.6554	4.21
2006	12-May	1	T	120	-0.0098	0.0404	-0.0369	2.2630	-2.0650	4.28

2006	12-May	2	T	120	-0.0605	0.0000	0.0000	8.2819	-7.5572	3.84
2006	12-May	3	T	120	-0.0112	0.0000	0.0000	1.2763	-1.1646	4.08
2006	12-May	1	C	200	-0.0118	0.0000	0.0000	0.4987	-0.4691	4.24
2006	12-May	2	C	200	-0.0147	0.0050	-0.0047	1.3086	-1.2310	4.33
2006	12-May	3	C	200	-0.0096	0.0000	0.0000	0.7273	-0.6842	4.24
2006	12-May	1	T	200	0.0000	0.0597	-0.0312	0.0000	0.0000	4.38
2006	12-May	2	T	200	-0.0305	0.0093	-0.0049	1.4798	-0.7736	4.32
2006	12-May	3	T	200	-0.0185	0.0468	-0.0245	1.0085	-0.5272	4.49
2006	19-May	1	C	15	-0.0027	0.0000	0.0000	3.6526	-1.0177	4.66
2006	19-May	2	C	15	-0.0090	5.8005	-1.6161	16.4350	-4.5791	4.71
2006	19-May	3	C	15	-0.0213	0.1026	-0.0286	24.1588	-6.7310	4.43
2006	19-May	1	T	15	-0.0120	6.6538	-1.8716	37.1324	-10.4450	4.66
2006	19-May	2	T	15	-0.0315	14.0398	-3.9493	14.7575	-4.1512	5.12
2006	19-May	3	T	15	-0.0170	0.5117	-0.1439	28.1924	-7.9303	4.42
2006	19-May	1	C	30	-0.0044	0.0000	0.0000	6.6800	-1.9097	4.44
2006	19-May	2	C	30	-0.0132	0.0942	-0.0269	20.9193	-5.9806	3.97
2006	19-May	3	C	30	-0.0131	0.0010	-0.0003	9.8896	-2.8273	3.74
2006	19-May	1	T	30	-0.0102	0.1325	-0.0390	7.5510	-2.2195	4.17
2006	19-May	2	T	30	-0.0100	0.1244	-0.0366	19.5918	-5.7588	3.96
2006	19-May	3	T	30	-0.1462	0.0048	-0.0014	14.9193	-4.3854	4
2006	19-May	1	C	60	-0.0035	0.6702	-0.2064	7.0356	-2.1667	4.23
2006	19-May	2	C	60	-0.0026	0.0000	0.0000	3.3506	-1.0319	4.02
2006	19-May	3	C	60	-0.0055	0.0000	0.0000	3.5250	-1.0856	4.07
2006	19-May	1	T	60	-0.0054	0.0436	-0.0144	4.4960	-1.4865	4.16
2006	19-May	2	T	60	-0.0172	0.0000	0.0000	14.1863	-4.6903	3.87
2006	19-May	3	T	60	-0.0202	1.3179	-0.4357	6.0802	-2.0102	4.04
2006	19-May	1	C	120	-0.0084	0.0000	0.0000	6.9130	-2.4778	4.12
2006	19-May	2	C	120	-0.0155	0.0336	-0.0121	3.2966	-1.1816	4.23
2006	19-May	3	C	120	-0.0079	0.0000	0.0000	5.2490	-1.8814	4.11
2006	19-May	1	T	120	-0.0054	0.2247	-0.0864	2.5586	-0.9836	4.24
2006	19-May	2	T	120	-0.0198	0.0000	0.0000	8.1243	-3.1234	3.88
2006	19-May	3	T	120	-0.0062	0.0000	0.0000	1.7840	-0.6859	4.15
2006	19-May	1	C	200	-0.0051	0.0000	0.0000	0.2706	-0.1027	4.19
2006	19-May	2	C	200	-0.0081	0.0000	0.0000	0.4756	-0.1806	4.22
2006	19-May	3	C	200	-0.0063	0.0000	0.0000	0.7999	-0.3037	4.33
2006	19-May	1	T	200	-0.0019	0.0000	0.0000	0.2025	-0.0847	4.41
2006	19-May	2	T	200	-0.0111	0.0000	0.0000	1.1749	-0.4915	4.11
2006	19-May	3	T	200	-0.0086	0.0191	-0.0080	1.0291	-0.4305	4.37
2006	27-May	1	C	15	-0.0194	3.1984	-2.1917	12.9814	-8.8957	4.11
2006	27-May	2	C	15	-0.0071	0.0000	0.0000	4.5121	-3.0920	4.54
2006	27-May	3	C	15	-0.0210	0.0760	-0.0521	7.8105	-5.3523	4.07
2006	27-May	1	T	15						
2006	27-May	2	T	15	-0.0467	16.8501	-11.6873	46.4904	-32.2460	3.9

year	date	rep	trt	depth cm	Zn2062 kg/ha	NH4-N ug/ml	NH4-N kg/ha	nitrate ug/ml	nitrate kg/ha	pH
2006	27-May	3	T	15	-0.0363	0.0000	0.0000	8.3231	-5.7730	4.19
2006	27-May	1	C	30	-0.0126	0.0000	0.0000	13.1587	-8.8180	4.14
2006	27-May	2	C	30	-0.0227	0.0000	0.0000	8.6565	-5.8010	4.29
2006	27-May	3	C	30	-0.0169	0.0106	-0.0071	14.2135	-9.5248	4.04

2006	27-May	1	T	30	-0.0654	0.1643	-0.1109	16.8316	-11.3559	4.05
2006	27-May	2	T	30	-0.0405	0.0000	0.0000	22.1722	-14.9591	3.88
2006	27-May	3	T	30	-0.0151	0.0000	0.0000	1.2028	-0.8115	4.5
2006	27-May	1	C	60	-0.0050	0.0000	0.0000	3.7031	-2.3433	4.39
2006	27-May	2	C	60	-0.0223	0.3096	-0.1959	9.3595	-5.9226	4.14
2006	27-May	3	C	60	-0.0249	0.0000	0.0000	3.3036	-2.0905	4.29
2006	27-May	1	T	60	-0.0108	0.0143	-0.0089	6.8349	-4.2493	4.21
2006	27-May	2	T	60	-0.0436	0.0000	0.0000	15.0463	-9.3544	3.93
2006	27-May	3	T	60	-0.0347	0.5371	-0.3339	6.0906	-3.7866	4.29
2006	27-May	1	C	120	-0.0106	0.0000	0.0000	7.5445	-4.1237	4.29
2006	27-May	2	C	120	-0.0268	0.0000	0.0000	2.5298	-1.3828	4.42
2006	27-May	3	C	120	-0.0106	0.0000	0.0000	5.0549	-2.7629	4.28
2006	27-May	1	T	120	-0.0082	0.0070	-0.0035	2.6518	-1.3211	4.46
2006	27-May	2	T	120	-0.0228	0.1825	-0.0909	27.8964	-13.8978	4.13
2006	27-May	3	T	120	-0.0057	0.0409	-0.0204	1.2426	-0.6191	4.57
2006	27-May	1	C	200	-0.0052	0.0000	0.0000	0.1983	-0.0907	4.87
2006	27-May	2	C	200	-0.0076	0.0000	0.0000	0.5178	-0.2368	4.62
2006	27-May	3	C	200	-0.0068	0.0000	0.0000	0.6846	-0.3131	4.7
2006	27-May	1	T	200	-0.0025	0.0240	-0.0094	0.1346	-0.0530	5.29
2006	27-May	2	T	200	-0.1296	0.0000	0.0000	20.1805	-7.9527	4
2006	27-May	3	T	200	-0.0057	0.0869	-0.0342	0.8793	-0.3465	4.53
2006	1-Jun	1	C	15	-0.0054	0.1268	-0.0774	6.1102	-3.7303	4.47
2006	1-Jun	2	C	15	-0.3768	0.2854	-0.1742	20.6455	-12.6043	4.33
2006	1-Jun	3	C	15	-0.0266	0.0000	0.0000	21.6825	-13.2374	4.1
2006	1-Jun	1	T	15	-0.1632	32.2429	-19.4581	63.4461	-38.2886	3.87
2006	1-Jun	2	T	15	-0.0807	1.5331	-0.9252	11.7403	-7.0851	4.17
2006	1-Jun	3	T	15	-0.0325	4.0818	-2.4633	14.4600	-8.7264	4.16
2006	1-Jun	1	C	30	-0.0304	0.0000	0.0000	33.8014	-19.9173	4.08
2006	1-Jun	2	C	30	-0.0040	0.0000	0.0000	3.9210	-2.3104	4.07
2006	1-Jun	3	C	30	-0.0139	0.0000	0.0000	0.3015	-0.1777	3.98
2006	1-Jun	1	T	30	-0.0568	0.1898	-0.1097	25.3442	-14.6555	4.07
2006	1-Jun	2	T	30	-0.0425	0.0000	0.0000	17.4902	-10.1139	3.95
2006	1-Jun	3	T	30	-0.2061	0.0000	0.0000	42.4149	-24.5268	3.94
2006	1-Jun	1	C	60	-0.0131	0.2479	-0.1417	11.7180	-6.6971	4.13
2006	1-Jun	2	C	60	-0.0275	0.0000	0.0000	3.0946	-1.7686	4.42
2006	1-Jun	3	C	60	-0.0091	0.0000	0.0000	3.7788	-2.1597	4.29
2006	1-Jun	1	T	60	-0.0130	0.0240	-0.0139	7.9127	-4.5825	4.31
2006	1-Jun	2	T	60	-0.0148	0.0131	-0.0076	17.5398	-10.1578	3.84
2006	1-Jun	3	T	60	-0.0748	0.2975	-0.1723	5.9406	-3.4404	4.32
2006	1-Jun	1	C	120	-0.0130	0.0000	0.0000	7.4381	-4.4774	4.29
2006	1-Jun	2	C	120	-0.0148	0.0010	-0.0006	0.5601	-0.3372	4.43

year	date	rep	trt	depth	Zn2062	NH4-N	NH4-N	nitrate	nitrate	pH
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	
2006	1-Jun	3	C	120	-0.0137	0.0010	-0.0006	5.1899	-3.1241	4.28
2006	1-Jun	1	T	120	-0.0110	0.0494	-0.0307	3.1074	-1.9326	4.49
2006	1-Jun	2	T	120	-0.0320	0.0000	0.0000	8.4696	-5.2674	4.18
2006	1-Jun	3	T	120	-0.0239	0.0000	0.0000	1.6463	-1.0239	4.5

2006	1-Jun	1 C	200	-0.0177	0.1171	-0.0757	3.0636	-1.9794	4.79
2006	1-Jun	2 C	200	-0.0143	0.0414	-0.0268	5.3270	-3.4418	4.73
2006	1-Jun	3 C	200	-0.0098	0.0000	0.0000	0.4738	-0.3061	4.7
2006	1-Jun	1 T	200	-0.0045	0.0000	0.0000	0.1236	-0.0794	5.2
2006	1-Jun	2 T	200	-0.0207	0.0000	0.0000	1.1726	-0.7535	4.48
2006	1-Jun	3 T	200	-0.0185	0.0482	-0.0310	1.0564	-0.6788	4.5
2006	9-Jun	1 C	15	-0.0082	0.0000	0.0000	7.5352	-4.4615	4.34
2006	9-Jun	2 C	15	-0.0169	0.0733	-0.0434	4.3715	-2.5883	4.17
2006	9-Jun	3 C	15	-0.0646	0.0276	-0.0163	4.6291	-2.7408	4.07
2006	9-Jun	1 T	15	-0.2507	75.8314	-45.4715	60.1452	-36.0654	3.79
2006	9-Jun	2 T	15	-0.0609	15.1497	-9.0844	48.3308	-28.9811	3.65
2006	9-Jun	3 T	15	-0.0578	9.8361	-5.8981	25.6904	-15.4050	3.96
2006	9-Jun	1 C	30	-0.0181	0.0000	0.0000	34.4000	-20.2728	4.07
2006	9-Jun	2 C	30	-0.0205	0.0361	-0.0213	5.6037	-3.3024	4.37
2006	9-Jun	3 C	30	-0.0257	0.0000	0.0000	21.0823	-12.4243	3.94
2006	9-Jun	1 T	30	-0.0822	0.1872	-0.1101	24.7054	-14.5228	3.95
2006	9-Jun	2 T	30	-0.0512	0.0000	0.0000	16.5467	-9.7268	3.89
2006	9-Jun	3 T	30	-0.1706	0.0000	0.0000	39.8699	-23.4371	3.9
2006	9-Jun	1 C	60	-0.0132	0.0201	-0.0114	15.0928	-8.5400	4.03
2006	9-Jun	2 C	60	-0.0028	0.0000	0.0000	4.1576	-2.3525	4.33
2006	9-Jun	3 C	60	-0.0177	0.0000	0.0000	4.1472	-2.3466	4.24
2006	9-Jun	1 T	60	-0.0094	0.0000	0.0000	8.5269	-4.6332	4.16
2006	9-Jun	2 T	60	-0.0265	0.0000	0.0000	20.4580	-11.1162	3.88
2006	9-Jun	3 T	60	-0.0489	0.2117	-0.1150	5.6532	-3.0718	4.24
2006	9-Jun	1 C	120	-0.0116	0.0000	0.0000	7.4838	-3.6998	4.25
2006	9-Jun	2 C	120	-0.0235	0.0000	0.0000	3.0504	-1.5081	4.37
2006	9-Jun	3 C	120	-0.0084	0.0000	0.0000	4.4749	-2.2123	4.29
2006	9-Jun	1 T	120	-0.0070	0.0829	-0.0388	3.0736	-1.4388	4.45
2006	9-Jun	2 T	120	-0.0225	0.0000	0.0000	8.6595	-4.0537	4.13
2006	9-Jun	3 T	120	-0.0092	0.0000	0.0000	1.4325	-0.6706	4.49
2006	9-Jun	1 C	200	-0.0046	0.0000	0.0000	0.2195	-0.0982	4.88
2006	9-Jun	2 C	200	-0.0084	0.0000	0.0000	0.5258	-0.2351	4.62
2006	9-Jun	3 C	200	-0.0057	0.0000	0.0000	0.5957	-0.2664	4.7
2006	9-Jun	1 T	200	-0.0029	0.0000	0.0000	0.5937	-0.2929	5.34
2006	9-Jun	2 T	200	-0.0119	0.0000	0.0000	1.1255	-0.5553	4.48
2006	9-Jun	3 T	200	-0.0065	0.0286	-0.0141	0.8758	-0.4321	4.52
2006	15-Jun	1 C	15	-0.0017	0.0000	0.0000	5.7688	-2.5815	4.34
2006	15-Jun	2 C	15	-0.0434	0.0000	0.0000	5.0429	-2.2567	4.13
2006	15-Jun	3 C	15	-0.0586	0.3299	-0.1476	7.3333	-3.2816	4
2006	15-Jun	1 T	15	-0.2046	9.3871	-4.4135	57.6935	-27.1252	3.77
2006	15-Jun	2 T	15	-0.0824	3.7757	-1.7752	45.1858	-21.2446	3.67
2006	15-Jun	3 T	15	-0.0362	0.9611	-0.4519	15.6425	-7.3545	3.89

year	date	rep	trt	depth cm	Zn2062 kg/ha	NH4-N ug/ml	NH4-N kg/ha	nitrate ug/ml	nitrate kg/ha	pH
2006	15-Jun	1 C		30	-0.0142	0.0000	0.0000	44.7767	-20.4159	3.94
2006	15-Jun	2 C		30	-0.0353	0.4587	-0.2091	19.6232	-8.9472	4
2006	15-Jun	3 C		30	-0.0119	0.0000	0.0000	19.7789	-9.0182	3.84
2006	15-Jun	1 T		30	-0.0439	0.0457	-0.0215	19.6262	-9.2205	3.9

2006	15-Jun	2 T	30	-0.0658	0.2160	-0.1015	17.5989	-8.2681	3.84
2006	15-Jun	3 T	30	-0.3671	0.1489	-0.0700	64.5880	-30.3440	3.8
2006	15-Jun	1 C	60	-0.0261	0.0233	-0.0107	17.5175	-8.0448	3.97
2006	15-Jun	2 C	60	-0.0021	0.0000	0.0000	5.6800	-2.6085	4.23
2006	15-Jun	3 C	60	-0.0097	0.0000	0.0000	4.7508	-2.1818	4.17
2006	15-Jun	1 T	60	-0.0072	0.0137	-0.0065	7.7619	-3.6775	4.23
2006	15-Jun	2 T	60	-0.0125	0.0031	-0.0015	24.9553	-11.8236	3.78
2006	15-Jun	3 T	60	-0.0333	0.3576	-0.1694	5.5494	-2.6293	4.2
2006	15-Jun	1 C	120	-0.0102	0.0031	-0.0014	7.8342	-3.6360	4.19
2006	15-Jun	2 C	120	-0.0239	0.0116	-0.0054	3.5483	-1.6468	4.34
2006	15-Jun	3 C	120	-0.0103	0.0000	0.0000	5.0175	-2.3287	4.17
2006	15-Jun	1 T	120	-0.0141	0.0957	-0.0473	2.5776	-1.2749	4.5
2006	15-Jun	2 T	120	-0.0224	0.0000	0.0000	8.6359	-4.2715	4.09
2006	15-Jun	3 T	120	-0.0136	0.0000	0.0000	1.4695	-0.7268	4.45
2006	15-Jun	1 C	200	-0.0069	0.0000	0.0000	0.1927	-0.0943	4.76
2006	15-Jun	2 C	200	-0.0084	0.0042	-0.0020	0.7384	-0.3614	4.46
2006	15-Jun	3 C	200	-0.0060	0.3246	-0.1589	1.1648	-0.5701	4.63
2006	15-Jun	1 T	200	-0.0012	0.0000	0.0000	0.1921	-0.0879	5.26
2006	15-Jun	2 T	200	-0.0095	0.0105	-0.0048	1.0742	-0.4916	4.46
2006	15-Jun	3 T	200	-0.0092	0.0169	-0.0077	0.8465	-0.3874	4.51
2006	22-Jun	1 C	15	-0.1017	0.4045	-0.1772	23.7961	-10.4281	3.64
2006	22-Jun	2 C	15	-0.0343	0.2537	-0.1112	9.6167	-4.2143	3.83
2006	22-Jun	3 C	15	-0.0360	0.0000	0.0000	5.8449	-2.5614	3.94
2006	22-Jun	1 T	15	-0.0714	1.2198	-0.5416	2.6846	-1.1919	4.03
2006	22-Jun	2 T	15	-0.0378	0.0787	-0.0349	8.9746	-3.9846	3.94
2006	22-Jun	3 T	15	-0.0361	0.0178	-0.0079	5.6489	-2.5080	3.85
2006	22-Jun	1 C	30	-0.0201	0.0000	0.0000	27.9814	-11.2076	3.92
2006	22-Jun	2 C	30	-0.0065	0.4586	-0.1837	6.6192	-2.6512	4.1
2006	22-Jun	3 C	30	-0.0096	0.0000	0.0000	19.3283	-7.7417	3.73
2006	22-Jun	1 T	30	-0.0600	0.0882	-0.0357	16.2140	-6.5564	4
2006	22-Jun	2 T	30	-0.1303	1.7766	-0.7184	21.9952	-8.8941	3.69
2006	22-Jun	3 T	30	-0.4477	0.7481	-0.3025	73.0254	-29.5291	3.72
2006	22-Jun	1 C	60	-0.0142	0.0000	0.0000	19.8384	-7.0584	3.84
2006	22-Jun	2 C	60	-0.0047	0.0000	0.0000	7.7254	-2.7487	4.1
2006	22-Jun	3 C	60	-0.0080	0.0000	0.0000	6.1185	-2.1769	4.06
2006	22-Jun	1 T	60	-0.0091	0.0010	-0.0003	8.7988	-3.1792	4.13
2006	22-Jun	2 T	60	-0.0260	0.0180	-0.0065	34.5410	-12.4803	3.66
2006	22-Jun	3 T	60	-0.0225	0.2903	-0.1049	6.5579	-2.3695	4.11
2006	22-Jun	1 C	120	-0.0084	0.0000	0.0000	7.7446	-2.6176	4.11
2006	22-Jun	2 C	120	-0.0169	0.0000	0.0000	3.9494	-1.3349	4.2
2006	22-Jun	3 C	120	-0.0158	0.0000	0.0000	6.5832	-2.2251	4.05
2006	22-Jun	1 T	120	-0.0077	0.1979	-0.0735	2.8060	-1.0426	4.44

year	date	rep	trt	depth cm	Zn2062 kg/ha	NH4-N ug/ml	NH4-N kg/ha	nitrate ug/ml	nitrate kg/ha	pH
2006	22-Jun	2 T		120	-0.0192	0.0000	0.0000	9.4630	-3.5161	3.99
2006	22-Jun	3 T		120	-0.0161	0.0000	0.0000	1.4921	-0.5544	4.38
2006	22-Jun	1 C		200	-0.0051	0.0000	0.0000	0.3721	-0.1508	4.73
2006	22-Jun	2 C		200	-0.0118	0.0000	0.0000	0.9841	-0.3987	4.39

2006	22-Jun	3 C	200	-0.0064	0.0000	0.0000	1.1096	-0.4496	4.6
2006	22-Jun	1 T	200	-0.0035	0.0042	-0.0020	0.2896	-0.1363	5.16
2006	22-Jun	2 T	200	-0.0172	0.0000	0.0000	1.4199	-0.6682	4.39
2006	22-Jun	3 T	200	-0.0103	0.0512	-0.0241	1.4377	-0.6766	4.44
2006	29-Jun	1 C	15	-0.1803	0.0299	-0.0265	14.0003	-12.4066	3.88
2006	29-Jun	2 C	15	-0.1198	0.0000	0.0000	21.2274	-18.8110	3.79
2006	29-Jun	3 C	15	-0.8244	0.0192	-0.0170	6.6819	-5.9213	4.01
2006	29-Jun	1 T	15	-0.0652	0.4942	-0.4522	3.6321	-3.3236	4.34
2006	29-Jun	2 T	15	-0.1889	0.0000	0.0000	5.7523	-5.2637	4.25
2006	29-Jun	3 T	15	-0.0424	0.0000	0.0000	0.7968	-0.7291	4.24
2006	29-Jun	1 C	30	-0.0433	0.0000	0.0000	23.8064	-21.3394	4.06
2006	29-Jun	2 C	30	-0.0425	3.8236	-3.4273	23.4840	-21.0504	3.98
2006	29-Jun	3 C	30	-0.0248	0.0000	0.0000	19.5775	-17.5488	3.89
2006	29-Jun	1 T	30	-0.0381	0.0180	-0.0168	8.8922	-8.2585	4.07
2006	29-Jun	2 T	30	-0.3454	2.2099	-2.0524	26.6294	-24.7317	3.74
2006	29-Jun	3 T	30	-0.8611	0.0000	0.0000	53.1758	-49.3862	3.71
2006	29-Jun	1 C	60	-0.0312	0.0000	0.0000	22.8596	-20.6069	3.97
2006	29-Jun	2 C	60	-0.0121	0.0000	0.0000	9.2037	-8.2967	4.23
2006	29-Jun	3 C	60	-0.0172	0.0000	0.0000	4.0395	-3.6414	4.29
2006	29-Jun	1 T	60	-0.0253	0.0000	0.0000	11.1374	-10.1798	4.12
2006	29-Jun	2 T	60	-0.0604	0.0000	0.0000	45.1428	-41.2614	3.77
2006	29-Jun	3 T	60	-0.0521	0.1700	-0.1554	9.7637	-8.9242	4.15
2006	29-Jun	1 C	120	-0.0264	0.0000	0.0000	7.8683	-6.7777	4.21
2006	29-Jun	2 C	120	-0.0443	0.0000	0.0000	4.2193	-3.6345	4.32
2006	29-Jun	3 C	120	-0.0313	0.0000	0.0000	1.1466	-0.9877	4.18
2006	29-Jun	1 T	120	-0.0148	0.0000	0.0000	2.8706	-2.3565	4.42
2006	29-Jun	2 T	120	-0.0476	0.0000	0.0000	11.3593	-9.3251	4.06
2006	29-Jun	3 T	120	-0.0266	0.0000	0.0000	2.4445	-2.0067	4.45
2006	29-Jun	1 C	200	-0.0192	0.0000	0.0000	0.1991	-0.1565	4.91
2006	29-Jun	2 C	200	-0.0228	0.0000	0.0000	0.5219	-0.4102	4.58
2006	29-Jun	3 C	200	-0.0176	0.0000	0.0000	0.6379	-0.5013	4.1
2006	29-Jun	1 T	200	-0.0064	0.0000	0.0000	0.2134	-0.1402	5.33
2006	29-Jun	2 T	200	-0.0195	0.0000	0.0000	1.8636	-1.2240	4.51
2006	29-Jun	3 T	200	-0.0916	0.0000	0.0000	1.2417	-0.8155	4.45
2006	5-Jul	1 C	15	-0.0196	0.0000	0.0000	1.0346	-0.6032	4.23
2006	5-Jul	2 C	15	-0.0507	0.0000	0.0000	11.5921	-6.7587	3.96
2006	5-Jul	3 C	15	-0.3722	0.0000	0.0000	5.7285	-3.3399	4.03
2006	5-Jul	1 T	15	-0.0634	0.8385	-0.5054	4.6406	-2.7970	4.58
2006	5-Jul	2 T	15	-0.1249	0.0000	0.0000	4.7411	-2.8576	4.38
2006	5-Jul	3 T	15	-0.0763	0.0000	0.0000	2.6913	-1.6221	4.44
2006	5-Jul	1 C	30	-0.0200	0.0000	0.0000	13.1423	-7.4073	4.13
2006	5-Jul	2 C	30	-0.0153	2.2883	-1.2897	11.8898	-6.7014	4.05

year	date	rep	trt	depth cm	Zn2062 kg/ha	NH4-N ug/ml	NH4-N kg/ha	nitrate ug/ml	nitrate kg/ha	pH
2006	5-Jul	3 C		30	-0.0187	0.0000	0.0000	15.0720	-8.4949	3.95
2006	5-Jul	1 T		30	-0.0304	0.0133	-0.0077	2.2667	-1.3052	4.34
2006	5-Jul	2 T		30	-0.1775	0.7483	-0.4309	23.8163	-13.7138	3.79
2006	5-Jul	3 T		30	-0.1779	0.0000	0.0000	15.5086	-8.9301	3.91

2006	5-Jul	1 C	60	-0.0174	0.0000	0.0000	24.7683	-13.0492	3.96
2006	5-Jul	2 C	60	-0.0075	0.0000	0.0000	9.8809	-5.2058	4.21
2006	5-Jul	3 C	60	-0.0129	0.0000	0.0000	5.2647	-2.7737	4.27
2006	5-Jul	1 T	60	-0.0357	0.2187	-0.1185	8.4572	-4.5812	4.29
2006	5-Jul	2 T	60	-0.0425	0.0000	0.0000	48.9037	-26.4906	3.78
2006	5-Jul	3 T	60	-0.0514	0.1249	-0.0677	13.8493	-7.5020	4.11
2006	5-Jul	1 C	120	-0.0145	0.0000	0.0000	9.1322	-4.3637	4.24
2006	5-Jul	2 C	120	-0.0468	0.0000	0.0000	5.2410	-2.5043	4.33
2006	5-Jul	3 C	120	-0.0405	0.0000	0.0000	5.8916	-2.8152	4.27
2006	5-Jul	1 T	120	-0.0295	0.0964	-0.0466	3.4887	-1.6857	4.46
2006	5-Jul	2 T	120	-0.0321	0.0000	0.0000	11.8673	-5.7342	4.07
2006	5-Jul	3 T	120	-0.0141	0.0000	0.0000	1.7703	-0.8554	4.42
2006	5-Jul	1 C	200	-0.0132	0.0000	0.0000	0.2529	-0.1182	4.82
2006	5-Jul	2 C	200	-0.0180	0.0000	0.0000	0.7976	-0.3728	4.56
2006	5-Jul	3 C	200	-0.0117	0.0000	0.0000	0.8268	-0.3865	4.63
2006	5-Jul	1 T	200	-0.0040	0.0000	0.0000	0.1971	-0.0971	5.02
2006	5-Jul	2 T	200	-0.0179	0.0000	0.0000	1.8718	-0.9218	4.5
2006	5-Jul	3 T	200	-0.0143	0.0000	0.0000	1.1986	-0.5903	4.47
2006	13-Jul	1 C	15						
2006	13-Jul	2 C	15	-0.0663	0.0647	-0.0775	3.4457	-4.1234	4.12
2006	13-Jul	3 C	15	-0.5544	0.0000	0.0000	1.0817	-1.2944	4.46
2006	13-Jul	1 T	15	-0.1733	1.4119	-1.7321	3.2844	-4.0291	5.02
2006	13-Jul	2 T	15	-0.0887	0.0000	0.0000	4.6070	-5.6516	4.16
2006	13-Jul	3 T	15	-0.0425	0.0183	-0.0225	1.6441	-2.0169	4.54
2006	13-Jul	1 C	30	-0.0779	0.0000	0.0000	10.1232	-11.8966	4.16
2006	13-Jul	2 C	30	-0.0645	0.9419	-1.1069	9.7676	-11.4787	4
2006	13-Jul	3 C	30	-0.0299	0.0000	0.0000	13.7308	-16.1362	3.92
2006	13-Jul	1 T	30	-0.0206	0.0567	-0.0685	0.4560	-0.5501	4.53
2006	13-Jul	2 T	30	-0.2420	0.0370	-0.0447	14.5748	-17.5840	3.83
2006	13-Jul	3 T	30	-0.1971	0.0004	-0.0005	2.2059	-2.6613	4.11
2006	13-Jul	1 C	60	-0.0643	0.0000	0.0000	26.2622	-29.8399	3.93
2006	13-Jul	2 C	60	-0.0143	0.0205	-0.0232	7.7052	-8.7549	4.21
2006	13-Jul	3 C	60	-0.0343	0.0000	0.0000	7.0889	-8.0546	4.12
2006	13-Jul	1 T	60	-0.0296	0.0217	-0.0247	8.9378	-10.1887	4.18
2006	13-Jul	2 T	60	-0.1472	0.0000	0.0000	46.5165	-53.0266	3.77
2006	13-Jul	3 T	60	-0.2636	0.1080	-0.1231	15.7710	-17.9782	4.09
2006	13-Jul	1 C	120	-0.0341	0.0000	0.0000	7.0038	-7.3415	4.22
2006	13-Jul	2 C	120	-0.0504	0.0067	-0.0071	4.9560	-5.1950	4.26
2006	13-Jul	3 C	120	-0.3004	0.0000	0.0000	5.8758	-6.1591	4.31
2006	13-Jul	1 T	120	-0.0199	0.0085	-0.0086	2.1604	-2.1830	4.42
2006	13-Jul	2 T	120	-0.0581	0.0000	0.0000	11.3277	-11.4464	4.03
2006	13-Jul	3 T	120	-0.0250	0.0000	0.0000	1.4575	-1.4728	4.43

year	date	rep	trt	depth cm	Zn2062 kg/ha	NH4-N ug/ml	NH4-N kg/ha	nitrate ug/ml	nitrate kg/ha	pH
2006	13-Jul	1 C		200	-0.0163	0.0000	0.0000	0.0136	-0.0137	4.93
2006	13-Jul	2 C		200	-0.0327	0.0000	0.0000	0.5655	-0.5677	4.59
2006	13-Jul	3 C		200	-0.0168	0.0000	0.0000	0.6921	-0.6948	4.67
2006	13-Jul	1 T		200	-0.0069	0.0000	0.0000	0.1978	-0.1876	5.11

2006	13-Jul	2 T	200	-0.0339	0.0000	0.0000	1.2542	-1.1894	4.52
2006	13-Jul	3 T	200	-0.0150	0.0000	0.0000	1.1583	-1.0985	4.52
2006	20-Jul	1 C	15	-0.0041	0.0000	0.0000	1.0852	-0.4438	4.88
2006	20-Jul	2 C	15						
2006	20-Jul	3 C	15	-0.0052	0.0000	0.0000	0.8020	-0.3280	4.6
2006	20-Jul	1 T	15	-0.0752	1.1802	-0.4858	3.8354	-1.5789	4.8
2006	20-Jul	2 T	15	-0.0256	0.0000	0.0000	3.0583	-1.2590	4.24
2006	20-Jul	3 T	15	-0.0118	0.0173	-0.0071	1.1571	-0.4763	4.58
2006	20-Jul	1 C	30	-0.0061	0.0000	0.0000	0.1369	-0.0560	4.71
2006	20-Jul	2 C	30	-0.0582	0.1111	-0.0454	0.8240	-0.3369	4.68
2006	20-Jul	3 C	30	-0.0180	0.0000	0.0000	16.5991	-6.7875	3.84
2006	20-Jul	1 T	30	-0.0056	0.0000	0.0000	0.0000	0.0000	4.76
2006	20-Jul	2 T	30	-0.0498	0.0000	0.0000	6.1497	-2.5961	3.93
2006	20-Jul	3 T	30	-0.1601	0.0000	0.0000	0.4206	-0.1776	.
2006	20-Jul	1 C	60	-0.0186	0.0000	0.0000	27.8215	-11.7771	3.8
2006	20-Jul	2 C	60	-0.0055	0.0331	-0.0140	8.0164	-3.3934	4.14
2006	20-Jul	3 C	60	-0.0108	0.0000	0.0000	7.8763	-3.3341	4.13
2006	20-Jul	1 T	60	-0.0139	0.0321	-0.0146	6.5232	-2.9700	4.21
2006	20-Jul	2 T	60	-0.0162	0.0000	0.0000	45.7051	-20.8094	3.67
2006	20-Jul	3 T	60	-0.0236	0.2050	-0.0933	27.2938	-12.4268	3.95
2006	20-Jul	1 C	120	-0.0154	0.0000	0.0000	7.4851	-3.5530	4.16
2006	20-Jul	2 C	120	-0.0388	0.0025	-0.0012	3.4519	-1.6385	4.23
2006	20-Jul	3 C	120	-0.0549	0.0000	0.0000	5.5312	-2.6255	4.27
2006	20-Jul	1 T	120	-0.0287	0.0321	-0.0174	2.6649	-1.4439	4.36
2006	20-Jul	2 T	120	-0.0297	0.0000	0.0000	12.0197	-6.5127	3.96
2006	20-Jul	3 T	120	-0.0112	0.0000	0.0000	1.8043	-0.9776	4.4
2006	20-Jul	1 C	200	-0.0123	0.0000	0.0000	0.5984	-0.3521	4.71
2006	20-Jul	2 C	200	-0.0187	0.0000	0.0000	0.6526	-0.3840	4.59
2006	20-Jul	3 C	200	-0.0157	0.0000	0.0000	0.4848	-0.2853	4.65
2006	20-Jul	1 T	200	-0.0085	0.0000	0.0000	0.0374	-0.0262	5.05
2006	20-Jul	2 T	200	-0.0234	0.0000	0.0000	1.2713	-0.8910	4.44
2006	20-Jul	3 T	200	-0.0214	0.0226	-0.0158	0.9902	-0.6940	4.42
2006	26-Jul	1 C	15	-0.0068	0.0000	0.0000	1.0178	-0.7950	4.96
2006	26-Jul	2 C	15						
2006	26-Jul	3 C	15	-0.0090	0.1153	-0.0901	0.6847	-0.5348	4.88
2006	26-Jul	1 T	15	-0.1454	0.4527	-0.3505	2.9608	-2.2923	4.26
2006	26-Jul	2 T	15	-0.0839	0.0000	0.0000	2.1932	-1.6980	4.4
2006	26-Jul	3 T	15	-0.0350	0.0131	-0.0101	1.1112	-0.8603	4.59
2006	26-Jul	1 C	30	-0.0182	0.0000	0.0000	0.0000	0.0000	4.63
2006	26-Jul	2 C	30	-0.0082	0.0000	0.0000	0.3247	-0.2370	5.16
2006	26-Jul	3 C	30	-0.0579	0.0000	0.0000	8.6808	-6.3361	4
2006	26-Jul	1 T	30	-0.0205	0.0099	-0.0071	0.1089	-0.0783	4.67

year	date	rep	trt	depth cm	Zn2062 kg/ha	NH4-N ug/ml	NH4-N kg/ha	nitrate ug/ml	nitrate kg/ha	pH
2006	26-Jul	2 T		30	-0.0889	0.0000	0.0000	3.0253	-2.1755	4.02
2006	26-Jul	3 T		30	-0.1304	0.0120	-0.0086	0.8660	-0.6228	4.33
2006	26-Jul	1 C		60	-0.0341	0.0000	0.0000	25.2298	-16.1674	3.91
2006	26-Jul	2 C		60	-0.0073	0.0352	-0.0226	6.5725	-4.2117	4.31

2006	26-Jul	3 C	60	-0.0136	0.0000	0.0000	7.0301	-4.5049	4.19
2006	26-Jul	1 T	60	-0.0330	0.0131	-0.0080	7.0529	-4.3058	4.05
2006	26-Jul	2 T	60	-0.0226	0.0000	0.0000	40.4223	-24.6779	3.77
2006	26-Jul	3 T	60	-0.0449	0.1860	-0.1135	28.5143	-17.4080	3.99
2006	26-Jul	1 C	120	-0.0116	0.0000	0.0000	8.3702	-4.0997	4.24
2006	26-Jul	2 C	120	-0.0282	0.0000	0.0000	4.3164	-2.1141	4.34
2006	26-Jul	3 C	120	-0.0314	0.0000	0.0000	5.7373	-2.8101	4.29
2006	26-Jul	1 T	120	-0.0138	0.0025	-0.0011	2.5670	-1.1084	4.34
2006	26-Jul	2 T	120	-0.0543	0.0000	0.0000	12.0562	-5.2055	4.02
2006	26-Jul	3 T	120	-0.0098	0.0000	0.0000	1.8691	-0.8070	4.49
2006	26-Jul	1 C	200	-0.0048	0.0099	-0.0038	0.4155	-0.1601	4.9
2006	26-Jul	2 C	200	-0.0111	0.0000	0.0000	0.4402	-0.1696	4.63
2006	26-Jul	3 C	200	-0.0064	0.0000	0.0000	0.6654	-0.2564	4.7
2006	26-Jul	1 T	200	-0.0041	0.0000	0.0000	0.1584	-0.0506	4.97
2006	26-Jul	2 T	200	-0.0121	0.0046	-0.0015	1.1549	-0.3689	4.51
2006	26-Jul	3 T	200	-0.0234	0.0542	-0.0173	0.9265	-0.2960	4.44
2006	3-Aug	1 C	15	-0.0019	0.0005	-0.0001	1.0505	-0.1562	4.64
2006	3-Aug	2 C	15	-0.0149	0.4368	-0.0650	1.8007	-0.2678	4.44
2006	3-Aug	3 C	15	-0.0040	0.0102	-0.0015	0.8134	-0.1210	4.53
2006	3-Aug	1 T	15	-0.0407	0.5149	-0.0797	2.7388	-0.4240	4.53
2006	3-Aug	2 T	15	-0.0183	0.0000	0.0000	2.1164	-0.3276	4.41
2006	3-Aug	3 T	15	-0.0040	0.0000	0.0000	0.8018	-0.1241	4.63
2006	3-Aug	1 C	30	-0.0068	0.0000	0.0000	0.1493	-0.0208	4.52
2006	3-Aug	2 C	30	-0.0052	0.0016	-0.0002	0.5247	-0.0730	4.71
2006	3-Aug	3 C	30	-0.0082	0.0000	0.0000	7.4986	-1.0438	4.02
2006	3-Aug	1 T	30	-0.0064	0.0131	-0.0020	0.0903	-0.0139	4.8
2006	3-Aug	2 T	30	-0.0061	0.0000	0.0000	0.9024	-0.1388	4.2
2006	3-Aug	3 T	30	-0.0297	0.0000	0.0000	0.1826	-0.0281	4.75
2006	3-Aug	1 C	60	-0.0075	0.0000	0.0000	22.3659	-3.1702	3.94
2006	3-Aug	2 C	60	-0.0017	0.0000	0.0000	6.0750	-0.8611	4.33
2006	3-Aug	3 C	60	-0.0089	0.0000	0.0000	6.7258	-0.9533	4.15
2006	3-Aug	1 T	60	-0.0116	0.1213	-0.0218	7.3387	-1.3209	4.33
2006	3-Aug	2 T	60	-0.0153	0.0000	0.0000	33.5932	-6.0464	3.82
2006	3-Aug	3 T	60	-0.0339	0.0323	-0.0058	24.7815	-4.4604	4.02
2006	3-Aug	1 C	120	-0.0071	0.0000	0.0000	8.1348	-1.8269	4.26
2006	3-Aug	2 C	120	-0.0139	0.0000	0.0000	4.2071	-0.9448	4.34
2006	3-Aug	3 C	120	-0.0272	0.0000	0.0000	5.8138	-1.3056	4.28
2006	3-Aug	1 T	120	-0.0137	0.0000	0.0000	2.9767	-0.9216	4.45
2006	3-Aug	2 T	120	-0.0784	0.0000	0.0000	12.1412	-3.7589	4.07
2006	3-Aug	3 T	120	-0.0077	0.0000	0.0000	2.0939	-0.6483	4.45
2006	3-Aug	1 C	200	-0.0117	0.0000	0.0000	0.6471	-0.2657	4.72
2006	3-Aug	2 C	200	-0.0119	0.0000	0.0000	0.6111	-0.2509	4.62

year	date	rep	trt	depth	Zn2062	NH4-N	NH4-N	nitrate	nitrate	pH
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	
2006	3-Aug	3 C		200	-0.0109	0.0000	0.0000	0.8287	-0.3403	4.42
2006	3-Aug	1 T		200	-0.0059	0.0000	0.0000	0.3306	-0.1726	5.04
2006	3-Aug	2 T		200	-0.0155	0.0000	0.0000	1.2085	-0.6308	4.53
2006	3-Aug	3 T		200	-0.0153	0.0000	0.0000	1.1778	-0.6148	4.5

2006	10-Aug	1	C	15	-0.0019	0.0000	0.0000	0.7400	-0.1293	4.77
2006	10-Aug	2	C	15	-0.0068	0.0425	-0.0074	2.3833	-0.4165	4.28
2006	10-Aug	3	C	15	-0.0038	0.0000	0.0000	0.6194	-0.1082	4.53
2006	10-Aug	1	T	15	-0.0449	0.3603	-0.0629	1.8925	-0.3303	4.41
2006	10-Aug	2	T	15	-0.0181	0.0000	0.0000	3.4115	-0.5955	4.21
2006	10-Aug	3	T	15	-0.0060	0.0081	-0.0014	0.8931	-0.1559	4.65
2006	10-Aug	1	C	30	-0.0025	0.0027	-0.0004	0.0361	-0.0055	4.67
2006	10-Aug	2	C	30	-0.0018	0.0000	0.0000	0.1392	-0.0211	4.73
2006	10-Aug	3	C	30	-0.0128	0.0048	-0.0007	7.2936	-1.1072	4.05
2006	10-Aug	1	T	30	-0.0022	0.0000	0.0000	0.4144	-0.0635	4.9
2006	10-Aug	2	T	30	-0.0069	0.0000	0.0000	1.1102	-0.1701	4.17
2006	10-Aug	3	T	30	-0.0620	0.0000	0.0000	1.5565	-0.2385	4.37
2006	10-Aug	1	C	60	-0.0058	0.0000	0.0000	20.3691	-2.1727	3.94
2006	10-Aug	2	C	60	-0.0014	0.0000	0.0000	4.4397	-0.4736	4.42
2006	10-Aug	3	C	60	-0.0055	0.0113	-0.0012	6.0813	-0.6487	4.01
2006	10-Aug	1	T	60	-0.0023	0.0000	0.0000	4.3819	-0.4829	4.32
2006	10-Aug	2	T	60	-0.0063	0.0000	0.0000	32.6562	-3.5986	3.86
2006	10-Aug	3	T	60	-0.0255	0.0124	-0.0014	21.2549	-2.3422	4.02
2006	10-Aug	1	C	120	-0.0014	0.0000	0.0000	8.0251	-0.5546	4.26
2006	10-Aug	2	C	120	-0.0039	0.0000	0.0000	4.2551	-0.2940	4.09
2006	10-Aug	3	C	120	-0.0039	0.0059	-0.0004	5.5083	-0.3807	4.16
2006	10-Aug	1	T	120	-0.0021	0.0000	0.0000	3.1647	-0.2984	4.43
2006	10-Aug	2	T	120	-0.0129	0.0000	0.0000	11.8757	-1.1197	4.08
2006	10-Aug	3	T	120	-0.0021	0.0000	0.0000	1.3348	-0.1258	4.52
2006	10-Aug	1	C	200	-0.0024	0.0000	0.0000	0.0791	-0.0111	4.94
2006	10-Aug	2	C	200	-0.0039	0.0000	0.0000	0.4487	-0.0632	4.59
2006	10-Aug	3	C	200	-0.0040	0.0059	-0.0008	0.4583	-0.0646	4.61
2006	10-Aug	1	T	200	-0.0012	0.0000	0.0000	0.3640	-0.0684	5.13
2006	10-Aug	2	T	200	-0.0081	0.0000	0.0000	1.3003	-0.2443	4.49
2006	10-Aug	3	T	200	-0.0415	0.0000	0.0000	0.7383	-0.1387	4.49
2006	17-Aug	1	C	15	-0.0082	0.0000	0.0000	0.6863	-0.5499	4.82
2006	17-Aug	2	C	15	-0.0864	0.0658	-0.0527	4.0600	-3.2528	4.21
2006	17-Aug	3	C	15	-0.0168	0.0000	0.0000	0.5022	-0.4024	4.75
2006	17-Aug	1	T	15	-0.0822	0.1093	-0.0862	1.1676	-0.9204	4.26
2006	17-Aug	2	T	15	-0.0851	0.0000	0.0000	2.0860	-1.6444	4.29
2006	17-Aug	3	T	15	-0.0232	0.0221	-0.0174	0.3113	-0.2454	4.54
2006	17-Aug	1	C	30	-0.0093	0.0000	0.0000	0.0000	0.0000	4.67
2006	17-Aug	2	C	30	-0.0082	0.0000	0.0000	0.2791	-0.1998	5.13
2006	17-Aug	3	C	30	-0.0232	0.0000	0.0000	5.2737	-3.7751	3.99
2006	17-Aug	1	T	30	-0.0055	0.0339	-0.0231	0.0000	0.0000	4.89
2006	17-Aug	2	T	30	-0.0397	0.0000	0.0000	1.2639	-0.8604	4.1
2006	17-Aug	3	T	30	-0.2056	0.0145	-0.0099	0.8393	-0.5714	4.47

year	date	rep	trt	depth cm	Zn2062 kg/ha	NH4-N ug/ml	NH4-N kg/ha	nitrate ug/ml	nitrate kg/ha	pH
2006	17-Aug	1	C	60	-0.0514	0.0000	0.0000	16.8777	-9.5493	3.91
2006	17-Aug	2	C	60	-0.0070	0.0000	0.0000	5.4063	-3.0589	4.3
2006	17-Aug	3	C	60	-0.0193	0.0000	0.0000	5.6379	-3.1899	4.13
2006	17-Aug	1	T	60	-0.0108	0.0361	-0.0177	4.7332	-2.3207	4.21

2006	17-Aug	2 T	60	-0.0155	0.0000	0.0000	31.8237	-15.6032	3.77
2006	17-Aug	3 T	60	-0.0633	0.1438	-0.0705	19.5691	-9.5948	3.98
2006	17-Aug	1 C	120	-0.0046	0.0000	0.0000	5.9200	-1.5153	4.23
2006	17-Aug	2 C	120	-0.0135	0.0000	0.0000	4.2489	-1.0876	4.26
2006	17-Aug	3 C	120	-0.0155	0.0000	0.0000	5.7430	-1.4700	4.22
2006	17-Aug	1 T	120	-0.0032	0.0318	-0.0045	2.8793	-0.4089	4.39
2006	17-Aug	2 T	120	-0.0152	0.0000	0.0000	12.3664	-1.7561	3.98
2006	17-Aug	3 T	120	-0.0042	0.0878	-0.0125	1.2626	-0.1793	4.44
2006	17-Aug	1 C	200	-0.0004	0.0000	0.0000	0.0000	0.0000	4.92
2006	17-Aug	2 C	200	-0.0027	0.0000	0.0000	0.5151	-0.0528	4.62
2006	17-Aug	3 C	200	-0.0020	0.0000	0.0000	0.4737	-0.0486	4.67
2006	17-Aug	1 T	200	-0.0011	0.0000	0.0000	0.1993	-0.0254	5.15
2006	17-Aug	2 T	200	-0.0135	0.0555	-0.0071	1.5995	-0.2042	4.54
2006	17-Aug	3 T	200	-0.0088	0.0000	0.0000	0.7896	-0.1008	4.46
2006	24-Aug	1 C	15	-0.0030	0.0000	0.0000	0.8194	-0.4824	4.93
2006	24-Aug	2 C	15	-0.0213	0.0681	-0.0401	0.7928	-0.4668	4.5
2006	24-Aug	3 C	15	-0.0033	0.2488	-0.1465	0.2002	-0.1179	5.19
2006	24-Aug	1 T	15	-0.1152	0.5818	-0.3413	1.4377	-0.8434	4.45
2006	24-Aug	2 T	15	-0.0298	0.0000	0.0000	1.6968	-0.9954	4.24
2006	24-Aug	3 T	15	-0.0148	0.0000	0.0000	0.5619	-0.3296	4.53
2006	24-Aug	1 C	30	-0.0043	0.0000	0.0000	0.0000	0.0000	4.65
2006	24-Aug	2 C	30	-0.0025	0.0000	0.0000	0.4328	-0.2455	5.09
2006	24-Aug	3 C	30	-0.0154	0.0000	0.0000	5.6493	-3.2045	4.05
2006	24-Aug	1 T	30	-0.0052	0.0000	0.0000	0.1208	-0.0688	4.83
2006	24-Aug	2 T	30	-0.0209	0.0138	-0.0079	0.9417	-0.5367	4.25
2006	24-Aug	3 T	30	-0.5682	0.0091	-0.0052	1.7668	-1.0069	4.12
2006	24-Aug	1 C	60	-0.0260	0.0000	0.0000	15.0324	-8.1953	3.87
2006	24-Aug	2 C	60	-0.0028	0.0000	0.0000	1.9533	-1.0649	4.53
2006	24-Aug	3 C	60	-0.0071	0.0000	0.0000	2.2634	-1.2340	4.3
2006	24-Aug	1 T	60	-0.0044	0.0000	0.0000	2.0270	-1.1041	4.33
2006	24-Aug	2 T	60	-0.0287	0.0000	0.0000	27.0446	-14.7308	3.79
2006	24-Aug	3 T	60	-0.0676	0.0126	-0.0069	16.6964	-9.0943	3.89
2006	24-Aug	1 C	120	-0.0044	0.0000	0.0000	4.5903	-2.3362	4.25
2006	24-Aug	2 C	120	-0.0253	0.0303	-0.0154	4.0113	-2.0415	4.26
2006	24-Aug	3 C	120	-0.0388	0.0000	0.0000	4.8506	-2.4687	4.19
2006	24-Aug	1 T	120	-0.0069	0.0000	0.0000	2.8411	-1.4677	4.33
2006	24-Aug	2 T	120	-0.0176	0.0000	0.0000	12.4350	-6.4241	3.99
2006	24-Aug	3 T	120	-0.0113	0.0000	0.0000	1.6256	-0.8398	4.4
2006	24-Aug	1 C	200	-0.0041	0.0000	0.0000	0.0563	-0.0259	4.98
2006	24-Aug	2 C	200	-0.0076	0.0000	0.0000	0.4087	-0.1881	4.6
2006	24-Aug	3 C	200	-0.0088	0.0000	0.0000	0.2887	-0.1329	4.62
2006	24-Aug	1 T	200	-0.0042	0.0000	0.0000	0.4446	-0.1600	5.18

year	date	rep	trt	depth cm	Zn2062 kg/ha	NH4-N ug/ml	NH4-N kg/ha	nitrate ug/ml	nitrate kg/ha	pH
2006	24-Aug	2 T		200	-0.0212	0.0185	-0.0067	1.4400	-0.5182	4.46
2006	24-Aug	3 T		200	-0.0068	0.0000	0.0000	0.6668	-0.2399	4.46
2006	31-Aug	1 C		15	-0.0023	0.0000	0.0000	0.4182	-0.1904	4.52
2006	31-Aug	2 C		15						

2006	31-Aug	3 C	15	-0.0023	0.0244	-0.0111	0.4344	-0.1978	4.29
2006	31-Aug	1 T	15	-0.0598	0.4578	-0.2256	2.8611	-1.4098	4.15
2006	31-Aug	2 T	15	-0.0370	0.0000	0.0000	1.2367	-0.6094	3.91
2006	31-Aug	3 T	15	-0.0090	0.0000	0.0000	0.2390	-0.1178	4.33
2006	31-Aug	1 C	30	-0.0031	0.0000	0.0000	0.3583	-0.1888	4.49
2006	31-Aug	2 C	30	-0.0066	0.0000	0.0000	0.4568	-0.2408	4.69
2006	31-Aug	3 C	30	-0.0382	0.0000	0.0000	0.2591	-0.1366	3.7
2006	31-Aug	1 T	30	-0.0034	0.0000	0.0000	0.7712	-0.4396	4.49
2006	31-Aug	2 T	30	-0.0083	0.1874	-0.1068	1.0105	-0.5760	4.21
2006	31-Aug	3 T	30						
2006	31-Aug	1 C	60	-0.0376	0.0000	0.0000	8.8408	-5.7299	3.71
2006	31-Aug	2 C	60	-0.0020	0.0000	0.0000	0.6816	-0.4418	4.47
2006	31-Aug	3 C	60	-0.0074	0.0000	0.0000	3.8586	-2.5009	3.83
2006	31-Aug	1 T	60	-0.0059	0.0000	0.0000	2.2270	-1.5802	4.13
2006	31-Aug	2 T	60	-0.0265	0.0000	0.0000	27.6595	-19.6268	3.6
2006	31-Aug	3 T	60	-0.0072	0.0000	0.0000	17.0655	-12.1094	3.71
2006	31-Aug	1 C	120	-0.0101	0.0000	0.0000	4.9422	-3.9343	3.95
2006	31-Aug	2 C	120	-0.0292	0.1508	-0.1200	4.3683	-3.4774	3.96
2006	31-Aug	3 C	120	-0.0306	0.0000	0.0000	5.2425	-4.1733	3.79
2006	31-Aug	1 T	120	-0.0114	0.0000	0.0000	1.7767	-1.4541	4.25
2006	31-Aug	2 T	120	-0.0605	0.0000	0.0000	12.8411	-10.5094	3.77
2006	31-Aug	3 T	120	-0.0052	0.0000	0.0000	0.9635	-0.7885	4.31
2006	31-Aug	1 C	200	-0.0050	0.0000	0.0000	0.0645	-0.0512	4.65
2006	31-Aug	2 C	200	-0.0151	0.0000	0.0000	0.2389	-0.1898	4.21
2006	31-Aug	3 C	200	-0.0064	0.0000	0.0000	0.2633	-0.2091	4.34
2006	31-Aug	1 T	200	-0.0020	0.0000	0.0000	0.0591	-0.0445	4.97
2006	31-Aug	2 T	200	-0.0221	0.0000	0.0000	1.4629	-1.1003	4.55
2006	31-Aug	3 T	200	-0.0195	0.0000	0.0000	0.8876	-0.6676	4.23
2006	7-Sep	1 C	15	-0.0003	0.0000	0.0000	3.1688	-0.0555	4.37
2006	7-Sep	2 C	15	-0.0012	0.6843	-0.0120	5.2318	-0.0916	4.26
2006	7-Sep	3 C	15	-0.0004	0.0000	0.0000	2.2176	-0.0388	4.26
2006	7-Sep	1 T	15	-0.0061	3.5058	-0.0801	12.6958	-0.2900	3.81
2006	7-Sep	2 T	15	-0.0015	0.0000	0.0000	1.4908	-0.0341	3.96
2006	7-Sep	3 T	15	-0.0007	0.1239	-0.0028	2.5553	-0.0584	4.39
2006	7-Sep	1 C	30	-0.0004	0.0000	0.0000	0.7212	-0.0204	4.61
2006	7-Sep	2 C	30	-0.0003	0.0000	0.0000	2.6646	-0.0752	4.58
2006	7-Sep	3 C	30	-0.0008	0.1151	-0.0033	0.9151	-0.0258	4.05
2006	7-Sep	1 T	30	-0.0003	0.0000	0.0000	0.8856	-0.0323	4.45
2006	7-Sep	2 T	30	-0.0031	0.0693	-0.0025	2.1914	-0.0800	4.15
2006	7-Sep	3 T	30	-0.0053	0.0114	-0.0004	1.0900	-0.0398	4.33
2006	7-Sep	1 C	60	-0.0033	0.0000	0.0000	10.4656	-0.4997	3.92
2006	7-Sep	2 C	60	-0.0002	0.0000	0.0000	2.9320	-0.1400	4.42

year	date	rep	trt	depth cm	Zn2062 kg/ha	NH4-N ug/ml	NH4-N kg/ha	nitrate ug/ml	nitrate kg/ha	pH
2006	7-Sep	3 C		60	-0.0013	0.0000	0.0000	3.1851	-0.1521	4.2
2006	7-Sep	1 T		60	-0.0006	0.0000	0.0000	2.1511	-0.1507	4.18
2006	7-Sep	2 T		60	-0.0025	0.0000	0.0000	18.3000	-1.2817	3.76
2006	7-Sep	3 T		60	-0.0051	0.0398	-0.0028	13.4925	-0.9450	3.95

2006	7-Sep	1	C	120	-0.0019	0.0000	0.0000	6.1943	-0.7835	4.2
2006	7-Sep	2	C	120	-0.0074	0.3019	-0.0382	4.7010	-0.5946	4.28
2006	7-Sep	3	C	120	-0.0052	0.0000	0.0000	0.7648	-0.0967	4.66
2006	7-Sep	1	T	120	-0.0026	0.0000	0.0000	3.0270	-0.5601	4.28
2006	7-Sep	2	T	120	-0.0114	0.0000	0.0000	13.0859	-2.4213	3.95
2006	7-Sep	3	T	120	-0.0018	0.0000	0.0000	1.3176	-0.2438	4.49
2006	7-Sep	1	C	200	-0.0020	0.0000	0.0000	0.0739	-0.0182	5.01
2006	7-Sep	2	C	200	-0.0061	0.0000	0.0000	0.7137	-0.1760	4.5
2006	7-Sep	3	C	200	-0.0078	0.0000	0.0000	4.5213	-1.1151	4.25
2006	7-Sep	1	T	200	-0.0007	0.0000	0.0000	0.3342	-0.1138	5.27
2006	7-Sep	2	T	200	-0.0080	0.0000	0.0000	1.4539	-0.4953	4.47
2006	7-Sep	3	T	200	-0.0175	0.0000	0.0000	1.5271	-0.5202	4.47
2006	14-Sep	1	C	15	-0.0005	0.0000	0.0000	7.6508	-0.4661	4.35
2006	14-Sep	2	C	15	-0.0045	0.1326	-0.0081	7.9041	-0.4815	4.02
2006	14-Sep	3	C	15	-0.0298	2.1055	-0.1283	2.9466	-0.1795	4.05
2006	14-Sep	1	T	15	-0.0288	9.0440	-0.5489	30.7773	-1.8680	3.82
2006	14-Sep	2	T	15	-0.0065	0.0000	0.0000	3.5484	-0.2154	4.04
2006	14-Sep	3	T	15	-0.0029	0.1457	-0.0088	4.2878	-0.2602	4.24
2006	14-Sep	1	C	30	-0.0013	0.0000	0.0000	0.8996	-0.0545	4.55
2006	14-Sep	2	C	30	-0.0007	0.0000	0.0000	3.0398	-0.1843	4.49
2006	14-Sep	3	C	30	-0.0049	0.0000	0.0000	2.1131	-0.1281	4.09
2006	14-Sep	1	T	30	-0.0007	0.0048	-0.0003	1.6306	-0.1026	4.47
2006	14-Sep	2	T	30	-0.0021	0.0146	-0.0009	3.6140	-0.2274	4.2
2006	14-Sep	3	T	30	-0.0083	0.0000	0.0000	1.0923	-0.0687	4.27
2006	14-Sep	1	C	60	-0.0031	0.0000	0.0000	9.8666	-0.6071	3.97
2006	14-Sep	2	C	60	-0.0003	0.0000	0.0000	2.7800	-0.1711	4.4
2006	14-Sep	3	C	60	-0.0014	0.0000	0.0000	3.4152	-0.2102	4.21
2006	14-Sep	1	T	60	-0.0008	0.0212	-0.0015	2.3535	-0.1613	4.31
2006	14-Sep	2	T	60	-0.0012	0.0000	0.0000	20.1946	-1.3844	3.85
2006	14-Sep	3	T	60	-0.0082	0.0387	-0.0027	13.3093	-0.9124	3.99
2006	14-Sep	1	C	120	-0.0015	0.0092	-0.0007	6.3420	-0.4981	4.21
2006	14-Sep	2	C	120	-0.0031	0.1086	-0.0085	4.5629	-0.3584	4.24
2006	14-Sep	3	C	120	-0.0053	0.0736	-0.0058	4.9927	-0.3921	4.23
2006	14-Sep	1	T	120	-0.0017	0.0000	0.0000	2.8317	-0.2906	4.35
2006	14-Sep	2	T	120	-0.0038	0.0000	0.0000	12.7376	-1.3074	4
2006	14-Sep	3	T	120	-0.0013	0.0725	-0.0074	1.3055	-0.1340	4.46
2006	14-Sep	1	C	200	-0.0012	0.0000	0.0000	0.3315	-0.0436	4.87
2006	14-Sep	2	C	200	-0.0021	0.0037	-0.0005	0.5273	-0.0693	4.56
2006	14-Sep	3	C	200	-0.0019	0.0000	0.0000	0.2522	-0.0332	4.48
2006	14-Sep	1	T	200	-0.0004	0.0000	0.0000	0.5455	-0.0968	4.97
2006	14-Sep	2	T	200	-0.0041	0.0000	0.0000	1.3164	-0.2336	4.46
2006	14-Sep	3	T	200	-0.0031	0.0000	0.0000	0.6868	-0.1219	4.42

year	date	rep	trt	depth cm	Zn2062 kg/ha	NH4-N ug/ml	NH4-N kg/ha	nitrate ug/ml	nitrate kg/ha	pH
2006	21-Sep	1	C	15	-0.0005	0.0015	-0.0001	9.7365	-0.6104	4.27
2006	21-Sep	2	C	15	-0.0120	0.4560	-0.0286	14.4686	-0.9070	3.84
2006	21-Sep	3	C	15	-0.0118	1.0543	-0.0661	2.9687	-0.1861	4.06
2006	21-Sep	1	T	15	-0.0596	15.3388	-1.0117	43.3206	-2.8573	3.64

2006	21-Sep	2 T	15	-0.0118	0.0092	-0.0006	8.3243	-0.5490	3.89
2006	21-Sep	3 T	15	-0.0093	0.2462	-0.0162	9.5426	-0.6294	3.95
2006	21-Sep	1 C	30	-0.0014	0.0157	-0.0012	1.7591	-0.1353	4.48
2006	21-Sep	2 C	30	-0.0005	0.0135	-0.0010	5.5393	-0.4260	4.32
2006	21-Sep	3 C	30	-0.0019	0.0000	0.0000	1.1602	-0.0892	4.06
2006	21-Sep	1 T	30	-0.0012	0.0277	-0.0023	3.0187	-0.2494	4.41
2006	21-Sep	2 T	30	-0.0009	0.0321	-0.0027	5.2141	-0.4308	4.19
2006	21-Sep	3 T	30	-0.0313	0.0201	-0.0017	1.1825	-0.0977	4.1
2006	21-Sep	1 C	60	-0.0091	0.0000	0.0000	9.3719	-0.8715	3.93
2006	21-Sep	2 C	60	-0.0003	0.0000	0.0000	1.5672	-0.1457	4.5
2006	21-Sep	3 C	60	-0.0011	0.0000	0.0000	3.0814	-0.2865	4.2
2006	21-Sep	1 T	60	-0.0008	0.0059	-0.0006	1.8975	-0.1873	4.32
2006	21-Sep	2 T	60	-0.0045	0.0267	-0.0026	18.7911	-1.8547	3.84
2006	21-Sep	3 T	60	-0.0047	0.0583	-0.0058	14.5587	-1.4369	3.96
2006	21-Sep	1 C	120	-0.0024	0.0583	-0.0055	6.2408	-0.5885	4.19
2006	21-Sep	2 C	120	-0.0034	0.0265	-0.0025	4.3030	-0.4058	4.23
2006	21-Sep	3 C	120	-0.0102	0.0330	-0.0031	4.4028	-0.4152	4.22
2006	21-Sep	1 T	120	-0.0016	0.0911	-0.0091	3.1771	-0.3189	4.35
2006	21-Sep	2 T	120	-0.0032	0.0365	-0.0037	12.6558	-1.2704	3.99
2006	21-Sep	3 T	120	-0.0010	0.0135	-0.0014	1.3137	-0.1319	4.48
2006	21-Sep	1 C	200	-0.0004	0.0638	-0.0065	0.8547	-0.0877	4.85
2006	21-Sep	2 C	200	-0.0021	0.0000	0.0000	0.6770	-0.0695	4.53
2006	21-Sep	3 C	200	-0.0052	0.0000	0.0000	0.7314	-0.0751	4.59
2006	21-Sep	1 T	200	-0.0010	0.0157	-0.0020	2.2363	-0.2874	5.02
2006	21-Sep	2 T	200	-0.0021	0.0070	-0.0009	1.2047	-0.1548	4.46
2006	21-Sep	3 T	200	-0.0216	0.0168	-0.0022	0.4041	-0.0519	4.42
2006	28-Sep	1 C	15	-0.0034	0.1657	-0.0299	14.2660	-2.5755	4.18
2006	28-Sep	2 C	15	-0.0976	0.8134	-0.1468	29.2868	-5.2873	3.64
2006	28-Sep	3 C	15	-0.0259	1.0361	-0.1870	7.4996	-1.3539	3.98
2006	28-Sep	1 T	15	-0.1055	0.3220	-0.0572	47.8816	-8.5078	3.56
2006	28-Sep	2 T	15	-0.0425	0.0041	-0.0007	9.9998	-1.7768	3.77
2006	28-Sep	3 T	15	-0.0513	0.0287	-0.0051	13.4745	-2.3942	3.9
2006	28-Sep	1 C	30	-0.0039	0.0000	0.0000	3.4337	-0.5438	4.34
2006	28-Sep	2 C	30	-0.0021	0.0255	-0.0040	10.2851	-1.6288	4.19
2006	28-Sep	3 C	30	-0.0065	0.4719	-0.0747	1.5978	-0.2530	4.1
2006	28-Sep	1 T	30	-0.0016	0.0169	-0.0025	4.8542	-0.7183	4.24
2006	28-Sep	2 T	30	-0.0066	0.0822	-0.0122	7.2184	-1.0682	4.11
2006	28-Sep	3 T	30	-0.0423	0.0062	-0.0009	5.2660	-0.7793	4.08
2006	28-Sep	1 C	60	-0.0212	0.0000	0.0000	8.2556	-0.9956	4
2006	28-Sep	2 C	60	-0.0034	0.1261	-0.0152	3.7294	-0.4498	4.33
2006	28-Sep	3 C	60	-0.0011	0.0000	0.0000	2.4894	-0.3002	4.22
2006	28-Sep	1 T	60	-0.0011	0.0000	0.0000	1.9796	-0.2225	4.24

year	date	rep	trt	depth cm	Zn2062 kg/ha	NH4-N ug/ml	NH4-N kg/ha	nitrate ug/ml	nitrate kg/ha	pH
2006	28-Sep	2 T		60	-0.0019	0.0000	0.0000	17.3043	-1.9453	3.86
2006	28-Sep	3 T		60	-0.0072	0.1357	-0.0153	13.2143	-1.4855	3.99
2006	28-Sep	1 C		120	-0.0018	0.0000	0.0000	7.2967	-0.6191	4.2
2006	28-Sep	2 C		120	-0.0034	0.0276	-0.0023	4.9427	-0.4194	4.24

2006	28-Sep	3	C	120	-0.0026	0.0000	0.0000	6.1223	-0.5195	4.22
2006	28-Sep	1	T	120	-0.0012	0.0000	0.0000	2.8095	-0.2539	4.31
2006	28-Sep	2	T	120	-0.0042	0.0084	-0.0008	12.4008	-1.1209	4
2006	28-Sep	3	T	120	-0.0027	0.0308	-0.0028	1.1816	-0.1068	4.45
2006	28-Sep	1	C	200	-0.0016	0.0000	0.0000	0.0000	0.0000	4.89
2006	28-Sep	2	C	200	-0.0020	0.0000	0.0000	0.1965	-0.0185	4.51
2006	28-Sep	3	C	200	-0.0030	0.0000	0.0000	1.4693	-0.1383	4.53
2006	28-Sep	1	T	200	-0.0011	0.0000	0.0000	0.6925	-0.0777	5.16
2006	28-Sep	2	T	200	-0.0029	0.0191	-0.0021	1.2543	-0.1407	4.46
2006	28-Sep	3	T	200	-0.0031	0.0000	0.0000	0.4208	-0.0472	4.41
2006	5-Oct	1	C	15	-0.0032	0.0672	-0.0222	12.6437	-4.1672	4.2
2006	5-Oct	2	C	15	-0.1018	0.5993	-0.1975	22.8281	-7.5238	3.69
2006	5-Oct	3	C	15	-0.1181	0.2171	-0.0716	13.7221	-4.5226	3.87
2006	5-Oct	1	T	15	-0.1050	0.2289	-0.0721	28.7651	-9.0623	3.83
2006	5-Oct	2	T	15	-0.0572	0.0000	0.0000	15.2637	-4.8088	3.95
2006	5-Oct	3	T	15	-0.0387	0.0062	-0.0020	10.0682	-3.1719	4.02
2006	5-Oct	1	C	30	-0.0118	0.0000	0.0000	5.9629	-1.7154	4.26
2006	5-Oct	2	C	30	-0.0051	0.0704	-0.0203	11.3005	-3.2509	4.12
2006	5-Oct	3	C	30	-0.0049	0.0790	-0.0227	3.0801	-0.8861	4.06
2006	5-Oct	1	T	30	-0.0038	0.0715	-0.0197	6.3639	-1.7532	4.27
2006	5-Oct	2	T	30	-0.0072	0.3210	-0.0884	8.9079	-2.4541	4.06
2006	5-Oct	3	T	30	-0.1780	0.0255	-0.0070	7.7484	-2.1346	3.96
2006	5-Oct	1	C	60	-0.0222	0.0000	0.0000	7.9509	-1.8932	4.03
2006	5-Oct	2	C	60	-0.0436	0.0897	-0.0214	2.9936	-0.7128	4.4
2006	5-Oct	3	C	60	-0.0058	0.0000	0.0000	2.5960	-0.6181	4.21
2006	5-Oct	1	T	60	-0.0017	0.0480	-0.0107	2.2736	-0.5062	4.32
2006	5-Oct	2	T	60	-0.0046	0.0000	0.0000	21.2464	-4.7301	3.86
2006	5-Oct	3	T	60	-0.0054	0.1443	-0.0321	12.4235	-2.7658	3.99
2006	5-Oct	1	C	120	-0.0118	0.0000	0.0000	7.5625	-1.2197	4.23
2006	5-Oct	2	C	120	-0.0048	0.0394	-0.0064	4.3773	-0.7060	4.22
2006	5-Oct	3	C	120	-0.0147	0.0148	-0.0024	5.8595	-0.9450	4.23
2006	5-Oct	1	T	120	-0.0026	0.1090	-0.0147	3.2727	-0.4427	4.41
2006	5-Oct	2	T	120	-0.0089	0.0000	0.0000	12.5340	-1.6957	3.99
2006	5-Oct	3	T	120	-0.0041	0.3520	-0.0476	1.4580	-0.1972	4.47
2006	5-Oct	1	C	200	-0.0008	0.0000	0.0000	0.0000	0.0000	4.76
2006	5-Oct	2	C	200	-0.0039	0.0148	-0.0015	1.0011	-0.0983	4.53
2006	5-Oct	3	C	200	-0.0201	0.0000	0.0000	1.9995	-0.1963	4.24
2006	5-Oct	1	T	200	-0.0005	0.0000	0.0000	1.5830	-0.1645	5.03
2006	5-Oct	2	T	200	-0.0020	0.0000	0.0000	1.4193	-0.1475	4.49
2006	5-Oct	3	T	200	-0.0167	0.0000	0.0000	2.5418	-0.2641	4.41
2006	12-Oct	1	C	15	-0.0025	0.0000	0.0000	10.3350	-1.4075	4.25
2006	12-Oct	2	C	15	-0.0132	0.0190	-0.0026	10.5819	-1.4412	3.8

year	date	rep	trt	depth cm	Zn2062 kg/ha	NH4-N ug/ml	NH4-N kg/ha	nitrate ug/ml	nitrate kg/ha	pH
2006	12-Oct	3	C	15	-0.0276	0.0506	-0.0069	9.5231	-1.2970	3.79
2006	12-Oct	1	T	15	-0.0194	0.1272	-0.0170	8.3888	-1.1211	4.07
2006	12-Oct	2	T	15	-0.0223	0.0000	0.0000	14.4418	-1.9301	3.89
2006	12-Oct	3	T	15	-0.0262	0.0009	-0.0001	19.3178	-2.5818	3.88

2006	12-Oct	1	C	30	-0.0080	0.0000	0.0000	13.0326	-1.5087	4.07
2006	12-Oct	2	C	30	-0.0018	0.0000	0.0000	11.0779	-1.2824	3.95
2006	12-Oct	3	C	30	-0.0028	0.0000	0.0000	3.7954	-0.4394	3.86
2006	12-Oct	1	T	30	-0.0024	0.0298	-0.0034	9.9171	-1.1234	4.13
2006	12-Oct	2	T	30	-0.0050	0.0000	0.0000	10.3807	-1.1759	3.96
2006	12-Oct	3	T	30	-0.0422	0.0000	0.0000	7.3787	-0.8359	3.94
2006	12-Oct	1	C	60	-0.0054	0.0000	0.0000	7.7162	-0.7557	4
2006	12-Oct	2	C	60	-0.0025	0.0000	0.0000	4.8886	-0.4788	4.08
2006	12-Oct	3	C	60	-0.0013	0.0000	0.0000	2.1285	-0.2085	4.02
2006	12-Oct	1	T	60	-0.0010	0.0308	-0.0034	2.6931	-0.2950	4.29
2006	12-Oct	2	T	60	-0.0030	0.0000	0.0000	16.4287	-1.7997	3.83
2006	12-Oct	3	T	60	-0.0078	1.9296	-0.2114	11.0910	-1.2150	4
2006	12-Oct	1	C	120	-0.0049	0.0063	-0.0008	7.4123	-0.9787	4.16
2006	12-Oct	2	C	120	-0.0063	0.0000	0.0000	4.8853	-0.6450	4.09
2006	12-Oct	3	C	120	-0.0035	0.0137	-0.0018	5.0523	-0.6671	4.27
2006	12-Oct	1	T	120	-0.0019	0.0811	-0.0123	3.3166	-0.5010	4.33
2006	12-Oct	2	T	120	-0.0078	0.0019	-0.0003	12.9523	-1.9567	3.98
2006	12-Oct	3	T	120	-0.0032	0.1149	-0.0174	1.9201	-0.2901	4.39
2006	12-Oct	1	C	200	-0.0030	0.0000	0.0000	1.3080	-0.1858	4.91
2006	12-Oct	2	C	200	-0.0022	0.0000	0.0000	2.0813	-0.2956	4.41
2006	12-Oct	3	C	200	-0.0325	0.0063	-0.0009	0.6314	-0.0897	4.26
2006	12-Oct	1	T	200	-0.0006	0.0084	-0.0011	1.5851	-0.2017	5.14
2006	12-Oct	2	T	200	-0.0046	0.0000	0.0000	1.0168	-0.1294	4.47
2006	12-Oct	3	T	200	-0.0024	0.0000	0.0000	0.5150	-0.0655	4.44
2006	19-Oct	1	C	15	-0.0043	0.0000	0.0000	13.2088	-6.1515	4.21
2006	19-Oct	2	C	15	-0.0723	0.1856	-0.0864	10.6485	-4.9591	4.02
2006	19-Oct	3	C	15	-0.0628	0.0000	0.0000	7.7419	-3.6055	3.9
2006	19-Oct	1	T	15	-0.0429	0.0369	-0.0163	4.5221	-1.9915	4.02
2006	19-Oct	2	T	15	-0.0845	0.0000	0.0000	11.9889	-5.2798	3.94
2006	19-Oct	3	T	15	-0.0814	0.0264	-0.0116	16.1153	-7.0970	3.94
2006	19-Oct	1	C	30	-0.0285	0.0000	0.0000	13.9953	-5.6198	4.1
2006	19-Oct	2	C	30	-0.0032	0.0327	-0.0131	8.9879	-3.6091	4.16
2006	19-Oct	3	C	30	-0.0674	0.0116	-0.0047	4.3330	-1.7399	4
2006	19-Oct	1	T	30	-0.0094	0.0158	-0.0056	12.2418	-4.3027	4.08
2006	19-Oct	2	T	30	-0.0132	0.0000	0.0000	11.0783	-3.8937	3.96
2006	19-Oct	3	T	30	-0.1397	0.0295	-0.0104	8.2144	-2.8871	3.93
2006	19-Oct	1	C	60	-0.0178	0.0000	0.0000	6.9486	-1.8364	4.03
2006	19-Oct	2	C	60	-0.0013	0.0116	-0.0031	3.7610	-0.9940	4.28
2006	19-Oct	3	C	60	-0.0030	0.0000	0.0000	2.0145	-0.5324	4.18
2006	19-Oct	1	T	60	-0.0016	0.0074	-0.0014	2.7588	-0.5382	4.29
2006	19-Oct	2	T	60	-0.0066	0.0000	0.0000	16.8346	-3.2844	3.87
2006	19-Oct	3	T	60	-0.0124	0.1476	-0.0288	10.4747	-2.0436	4.01

year	date	rep	trt	depth	Zn2062	NH4-N	NH4-N	nitrate	nitrate	pH
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	
2006	19-Oct	1	C	120	-0.0073	0.0000	0.0000	7.2662	-1.0019	4.21
2006	19-Oct	2	C	120	-0.0039	0.0000	0.0000	4.6793	-0.6452	4.19
2006	19-Oct	3	C	120	-0.0065	0.0000	0.0000	4.9160	-0.6779	4.21
2006	19-Oct	1	T	120	-0.0005	0.0000	0.0000	0.3805	-0.0498	5.26

2006	19-Oct	2	T	120	-0.0052	0.0000	0.0000	12.4298	-1.6279	4
2006	19-Oct	3	T	120	-0.0027	1.5215	-0.1993	2.6177	-0.3428	4.8
2006	19-Oct	1	C	200	-0.0018	0.0000	0.0000	0.4034	-0.0533	4.73
2006	19-Oct	2	C	200	-0.0040	0.0148	-0.0020	0.1744	-0.0231	4.5
2006	19-Oct	3	C	200	-0.0056	0.0000	0.0000	0.7836	-0.1036	4.41
2006	19-Oct	1	T	200	-0.0021	0.0633	-0.0085	3.2015	-0.4283	4.37
2006	19-Oct	2	T	200	-0.0021	0.0032	-0.0004	1.1956	-0.1600	4.44
2006	19-Oct	3	T	200	-0.0033	0.0000	0.0000	0.8097	-0.1083	4.45
2006	26-Oct	1	C	15	-0.0173	0.0000	0.0000	8.2576	-13.5205	4.14
2006	26-Oct	2	C	15	-0.0930	0.0000	0.0000	5.4519	-8.9266	3.93
2006	26-Oct	3	C	15	-0.0486	0.0000	0.0000	1.9925	-3.2624	4.09
2006	26-Oct	1	T	15	-0.1161	0.0443	-0.0729	0.3172	-0.5223	4.22
2006	26-Oct	2	T	15	-0.1673	0.0148	-0.0243	2.6736	-4.4027	4
2006	26-Oct	3	T	15	-0.0464	0.0137	-0.0226	2.0658	-3.4018	4.21
2006	26-Oct	1	C	30	-0.1906	0.0148	-0.0247	16.5530	-27.6413	4.05
2006	26-Oct	2	C	30	-0.0163	0.0000	0.0000	4.1145	-6.8707	4.11
2006	26-Oct	3	C	30	-0.0905	0.0316	-0.0528	8.0761	-13.4860	4.08
2006	26-Oct	1	T	30	-0.0494	0.0253	-0.0429	8.0623	-13.6790	4.05
2006	26-Oct	2	T	30	-0.0241	0.0000	0.0000	13.2716	-22.5173	3.85
2006	26-Oct	3	T	30	-0.3619	0.0264	-0.0447	2.4959	-4.2347	4.13
2006	26-Oct	1	C	60	-0.0607	0.0000	0.0000	6.4554	-10.8717	3.9
2006	26-Oct	2	C	60	-0.0097	0.0000	0.0000	4.6552	-7.8399	4.03
2006	26-Oct	3	C	60	-0.0210	0.0021	-0.0036	2.0837	-3.5092	4.04
2006	26-Oct	1	T	60	-0.0167	0.0474	-0.0833	5.7713	-10.1348	4.19
2006	26-Oct	2	T	60	-0.0424	0.0000	0.0000	27.3188	-47.9737	3.73
2006	26-Oct	3	T	60	-0.0319	0.3374	-0.5925	6.7199	-11.8006	4.01
2006	26-Oct	1	C	120	-0.0239	0.0000	0.0000	5.3636	-8.4771	4.09
2006	26-Oct	2	C	120	-0.1102	0.1423	-0.2250	5.1195	-8.0913	3.99
2006	26-Oct	3	C	120	-0.0283	0.0000	0.0000	5.8401	-9.2301	3.89
2006	26-Oct	1	T	120	-0.0149	0.0148	-0.0235	3.1472	-5.0197	4.56
2006	26-Oct	2	T	120	-0.2220	0.0000	0.0000	11.7401	-18.7253	4.04
2006	26-Oct	3	T	120	-0.0844	1.1345	-1.8096	2.1209	-3.3828	4.97
2006	26-Oct	1	C	200	-0.0106	0.0000	0.0000	0.6876	-0.9793	4.62
2006	26-Oct	2	C	200	-0.0493	0.0148	-0.0210	1.1971	-1.7050	4.49
2006	26-Oct	3	C	200	-0.4080	0.0000	0.0000	1.6530	-2.3543	4.38
2006	26-Oct	1	T	200	-0.0037	0.0000	0.0000	0.0000	0.0000	5.09
2006	26-Oct	2	T	200	-0.0283	0.0000	0.0000	1.2107	-1.6304	4.53
2006	26-Oct	3	T	200	-0.0218	0.0380	-0.0511	1.5386	-2.0720	4.31
2006	2-Nov	1	C	15	0.0003	0.0000	0.0000	7.7957	0.3059	3.82
2006	2-Nov	2	C	15	0.0008	0.0205	0.0008	0.7330	0.0288	3.98
2006	2-Nov	3	C	15	0.0028	0.0000	0.0000	1.1225	0.0440	3.94
2006	2-Nov	1	T	15	0.0017	0.0063	0.0002	0.8131	0.0223	4.08

year	date	rep	trt	depth cm	Zn2062 kg/ha	NH4-N ug/ml	NH4-N kg/ha	nitrate ug/ml	nitrate kg/ha	pH
2006	2-Nov	2	T	15	0.0017	0.0000	0.0000	1.4138	0.0388	3.95
2006	2-Nov	3	T	15	0.0013	0.0096	0.0003	1.1125	0.0306	4.16
2006	2-Nov	1	C	30	-0.0003	0.0000	0.0000	10.9257	-0.0449	3.71
2006	2-Nov	2	C	30	-0.0002	0.0891	-0.0004	2.0641	-0.0085	4.36

2006	2-Nov	3 C	30	-0.0001	0.0000	0.0000	9.4689	-0.0389	3.62	
2006	2-Nov	1 T	30	-0.0009	0.0000	0.0000	7.4800	-0.2262	3.77	
2006	2-Nov	2 T	30	-0.0004	0.0000	0.0000	12.0082	-0.3632	3.66	
2006	2-Nov	3 T	30	-0.0102	0.0000	0.0000	1.8265	-0.0552	3.85	
2006	2-Nov	1 C	60	-0.0037	0.0000	0.0000	7.0241	-0.4376	3.66	
2006	2-Nov	2 C	60	-0.0005	0.0009	-0.0001	5.2010	-0.3240	3.83	
2006	2-Nov	3 C	60	-0.0024	0.0000	0.0000	2.1426	-0.1335	3.88	
2006	2-Nov	1 T	60	-0.0014	0.0433	-0.0043	6.4433	-0.6452	3.85	
2006	2-Nov	2 T	60	-0.0025	0.0000	0.0000	16.8276	-1.6850	3.53	
2006	2-Nov	3 T	60	-0.0070	0.0063	-0.0006	5.5835	-0.5591	3.73	
2006	2-Nov	1 C	120	-0.0071	0.0000	0.0000	10.2145	-1.4011	3.75	
2006	2-Nov	2 C	120	-0.0046	0.0085	-0.0012	5.2642	-0.7221	3.83	
2006	2-Nov	3 C	120	-0.0043	0.0000	0.0000	5.3255	-0.7305	4.22	
2006	2-Nov	1 T	120	-0.0032	0.0139	-0.0029	3.6460	-0.7498	4	
2006	2-Nov	2 T	120	-0.0069	0.0000	0.0000	13.4150	-2.7590	3.63	
2006	2-Nov	3 T	120	-0.0104	1.1483	-0.2362	3.5816	-0.7366	.	
2006	2-Nov	1 C	200	-0.0027	0.0000	0.0000	0.5934	-0.1639	4.34	
2006	2-Nov	2 C	200	-0.0205	0.0000	0.0000	1.0068	-0.2780	4.03	
2006	2-Nov	3 C	200	-0.0180	0.0000	0.0000	1.0057	-0.2777	4.07	
2006	2-Nov	1 T	200	-0.0018	0.0000	0.0000	0.6517	-0.2506	4.76	
2006	2-Nov	2 T	200	-0.0071	0.0000	0.0000	1.2861	-0.4946	4.12	
2006	2-Nov	3 T	200	-0.0305	0.0000	0.0000	0.6918	-0.2661	.	
2006	9-Nov	1 C	15	-0.0040	0.0128	-0.0061	8.0961	-3.8672	4.34	
2006	9-Nov	2 C	15	-0.0126	0.0259	-0.0124	0.4959	-0.2369	4.48	
2006	9-Nov	3 C	15	-0.0265	0.0000	0.0000	2.1729	-1.0379	.	
2006	9-Nov	1 T	15	-0.0260	0.0000	0.0000	0.3750	-0.1706	4.26	
2006	9-Nov	2 T	15	-0.1131	0.0000	0.0000	0.4037	-0.1836	4.10	
									8	
2006	9-Nov	3 T	15	-0.0485	0.0836	-0.0380	1.0456	-0.4756	4.42	
2006	9-Nov	1 C	30	-0.0504	0.0107	-0.0036	14.2686	-4.7676	4.07	
2006	9-Nov	2 C	30	-0.0020	0.0000	0.0000	0.7536	-0.2518	4.42	
2006	9-Nov	3 C	30	0.0000	0.0000	0.0000	9.6005	-3.2078	.	
2006	9-Nov	1 T	30	-0.0261	0.1228	-0.0351	3.6807	-1.0526	4.4	
2006	9-Nov	2 T	30	0.0000	0.0000	0.0000	13.9602	-3.9924	.	
2006	9-Nov	3 T	30	0.0000	0.0000	0.0000	2.8793	-0.8234	.	
2006	9-Nov	1 C	60	-0.0036	0.0000	0.0000	6.1918	-0.5125	4.13	
2006	9-Nov	2 C	60	-0.0021	0.0000	0.0000	4.1761	-0.3457	4.35	
2006	9-Nov	3 C	60	-0.0033	0.0000	0.0000	2.4694	-0.2044	4.24	
2006	9-Nov	1 T	60	-0.0009	0.2121	-0.0066	7.7941	-0.2417	4.24	
2006	9-Nov	2 T	60	-0.0013	0.0000	0.0000	25.5480	-0.7923	3.89	
2006	9-Nov	3 T	60							
2006	9-Nov	1 C	120	-0.0008	0.0000	0.0000	10.1292	-0.1079	4.19	
2006	9-Nov	2 C	120	-0.0004	0.0000	0.0000	4.6989	-0.0500	4.28	
year	date	rep	trt	depth	Zn2062	NH4-N	NH4-N	nitrate	nitrate	pH
				cm	kg/ha	ug/ml	kg/ha	ug/ml	kg/ha	
2006	9-Nov	3 C		120	-0.0004	0.0000	0.0000	5.8745	-0.0626	4.16
2006	9-Nov	1 T		120	-0.0004	0.0107	-0.0004	2.9783	-0.1190	4.29
2006	9-Nov	2 T		120	-0.0015	0.0000	0.0000	13.3028	-0.5315	3.94
2006	9-Nov	3 T		120	-0.0012	0.9677	-0.0387	3.5294	-0.1410	4.59

2006	9-Nov	1	C	200	-0.0016	0.0000	0.0000	0.5176	-0.0617	4.8
2006	9-Nov	2	C	200	-0.0084	0.0000	0.0000	1.7231	-0.2053	.
2006	9-Nov	3	C	200	-0.0050	0.0000	0.0000	1.1988	-0.1428	4.48
2006	9-Nov	1	T	200	-0.0008	0.0000	0.0000	1.1223	-0.1905	4.96
2006	9-Nov	2	T	200	-0.0030	0.0000	0.0000	1.8181	-0.3085	4.41
2006	9-Nov	3	T	200	-0.0104	0.0000	0.0000	1.3942	-0.2366	4.44
2006	16-Nov	1	C	15	-0.0059	0.0000	0.0000	9.0836	-5.3359	4.34
2006	16-Nov	2	C	15	-0.0116	0.0000	0.0000	0.4520	-0.2655	4.44
2006	16-Nov	3	C	15	-0.0153	0.0000	0.0000	1.8465	-1.0847	4.24
2006	16-Nov	1	T	15	-0.0256	0.0000	0.0000	0.4009	-0.2407	4.45
2006	16-Nov	2	T	15	-0.0387	0.0000	0.0000	0.0000	0.0000	4.24
2006	16-Nov	3	T	15	-0.0349	0.0368	-0.0221	2.2956	-1.3781	4.4
2006	16-Nov	1	C	30	-0.0186	0.0000	0.0000	11.7849	-6.5807	4.1
2006	16-Nov	2	C	30	-0.0035	0.0000	0.0000	0.0003	-0.0002	4.73
2006	16-Nov	3	C	30	-0.0990	0.0057	-0.0032	2.7586	-1.5404	4.08
2006	16-Nov	1	T	30	-0.0826	0.0000	0.0000	2.5132	-1.5128	4.39
2006	16-Nov	2	T	30	-0.0135	0.0000	0.0000	11.7394	-7.0664	4
2006	16-Nov	3	T	30	-0.0713	0.0259	-0.0156	2.4450	-1.4717	4.26
2006	16-Nov	1	C	60	-0.0213	0.0455	-0.0252	6.5320	-3.6138	4.1
2006	16-Nov	2	C	60	-0.0381	0.0000	0.0000	2.2878	-1.2657	4.46
2006	16-Nov	3	C	60	-0.0026	0.0079	-0.0044	2.0658	-1.1429	4.18
2006	16-Nov	1	T	60	-0.0071	0.0248	-0.0141	4.4024	-2.5057	4.29
2006	16-Nov	2	T	60	-0.0107	0.0150	-0.0086	10.1524	-5.7784	3.96
2006	16-Nov	3	T	60	-0.0331	0.0880	-0.0501	5.2883	-3.0099	4.16
2006	16-Nov	1	C	120	-0.0045	0.0000	0.0000	6.4632	-1.5764	4.23
2006	16-Nov	2	C	120	-0.0107	0.0000	0.0000	4.9713	-1.2125	4.27
2006	16-Nov	3	C	120	-0.0069	0.0222	-0.0054	5.9283	-1.4459	4.06
2006	16-Nov	1	T	120	-0.0024	0.0063	-0.0010	2.8403	-0.4565	4.35
2006	16-Nov	2	T	120	-0.0130	0.0422	-0.0068	13.1638	-2.1157	4
2006	16-Nov	3	T	120	-0.0027	0.3416	-0.0549	2.7736	-0.4458	4.36
2006	16-Nov	1	C	200	-0.0032	0.0000	0.0000	0.9288	-0.0746	4.89
2006	16-Nov	2	C	200	-0.0043	0.0000	0.0000	0.8607	-0.0691	4.47
2006	16-Nov	3	C	200	-0.0031	0.0068	-0.0005	0.7963	-0.0639	4.52
2006	16-Nov	1	T	200	-0.0004	0.0000	0.0000	0.0417	-0.0042	5.2
2006	16-Nov	2	T	200	-0.0019	0.0455	-0.0046	1.3082	-0.1331	4.45
2006	16-Nov	3	T	200	-0.0124	0.0000	0.0000	0.6836	-0.0696	4.44
2006	23-Nov	1	C	15	-0.0064	0.0000	0.0000	9.2575	-2.3617	4.24
2006	23-Nov	2	C	15	-0.0021	0.0431	-0.0110	0.4643	-0.1184	4.53
2006	23-Nov	3	C	15	-0.0174	0.0000	0.0000	1.3321	-0.3398	4.28
2006	23-Nov	1	T	15	-0.0101	0.0343	-0.0090	0.0000	0.0000	4.44
2006	23-Nov	2	T	15	-0.0132	0.0002	-0.0001	0.0000	0.0000	4.19
2006	23-Nov	3	T	15	-0.0161	0.0354	-0.0093	3.3734	-0.8837	4.31

year	date	rep	trt	depth cm	Zn2062 kg/ha	NH4-N ug/ml	NH4-N kg/ha	nitrate ug/ml	nitrate kg/ha	pH
2006	23-Nov	1	C	30	-0.0173	0.0000	0.0000	11.0002	-2.7209	4.01
2006	23-Nov	2	C	30	-0.0005	0.0077	-0.0019	0.0000	0.0000	4.71
2006	23-Nov	3	C	30	-0.0280	0.0000	0.0000	2.3504	-0.5814	4.09
2006	23-Nov	1	T	30	-0.0057	0.0000	0.0000	2.6656	-0.7006	4.15

2006	23-Nov	2	T	30	-0.0045	0.0000	0.0000	10.2714	-2.6996	3.93
2006	23-Nov	3	T	30	-0.0126	0.0000	0.0000	3.4665	-0.9111	4.14
2006	23-Nov	1	C	60	-0.0060	0.0000	0.0000	5.7901	-1.3631	4.08
2006	23-Nov	2	C	60	-0.0009	0.0244	-0.0057	1.1685	-0.2751	4.5
2006	23-Nov	3	C	60	-0.0019	0.0000	0.0000	2.3710	-0.5582	4.22
2006	23-Nov	1	T	60	-0.0016	0.0000	0.0000	5.1836	-1.3837	4.07
2006	23-Nov	2	T	60	-0.0031	0.0000	0.0000	7.0112	-1.8716	3.92
2006	23-Nov	3	T	60	-0.0096	0.0101	-0.0027	5.7541	-1.5360	4.05
2006	23-Nov	1	C	120	-0.0109	0.0000	0.0000	7.3336	-1.8621	4.17
2006	23-Nov	2	C	120	-0.0090	0.0222	-0.0056	4.8017	-1.2192	4.22
2006	23-Nov	3	C	120	-0.0065	0.0000	0.0000	5.9758	-1.5173	4.14
2006	23-Nov	1	T	120	-0.0023	0.0178	-0.0051	2.2501	-0.6456	4.25
2006	23-Nov	2	T	120	-0.0091	0.0167	-0.0048	13.2488	-3.8013	3.93
2006	23-Nov	3	T	120	-0.0049	0.2551	-0.0732	3.3937	-0.9737	4.22
2006	23-Nov	1	C	200	-0.0059	0.0101	-0.0025	0.1724	-0.0427	4.82
2006	23-Nov	2	C	200	-0.0051	0.0000	0.0000	0.5285	-0.1309	4.5
2006	23-Nov	3	C	200	-0.0080	0.0000	0.0000	0.5102	-0.1264	4.57
2006	23-Nov	1	T	200	-0.0004	0.0000	0.0000	0.8094	-0.1544	4.95
2006	23-Nov	2	T	200	-0.0032	0.0200	-0.0038	1.2589	-0.2401	4.38
2006	23-Nov	3	T	200	-0.0236	0.0000	0.0000	1.1051	-0.2107	4.35
2006	30-Nov	1	C	15	-0.0037	0.0000	0.0000	4.7118	-1.4371	4.35
2006	30-Nov	2	C	15	-0.0128	0.0288	-0.0088	3.7621	-1.1475	4.11
2006	30-Nov	3	C	15	-0.0060	0.0000	0.0000	0.1870	-0.0570	4.49
2006	30-Nov	1	T	15	-0.2588	0.0145	-0.0046	0.4396	-0.1392	3.88
2006	30-Nov	2	T	15	-0.0142	0.0000	0.0000	0.0000	0.0000	4.22
2006	30-Nov	3	T	15	-0.0284	0.0123	-0.0039	2.7657	-0.8760	4.31
2006	30-Nov	1	C	30	-0.0197	0.0057	-0.0018	8.7652	-2.7254	4.04
2006	30-Nov	2	C	30	-0.0008	0.0189	-0.0059	0.0000	0.0000	4.72
2006	30-Nov	3	C	30	-0.0526	0.0000	0.0000	2.6314	-0.8182	4.1
2006	30-Nov	1	T	30	-0.0178	0.0595	-0.0185	1.2772	-0.3968	4.2
2006	30-Nov	2	T	30	-0.0082	0.0000	0.0000	10.1996	-3.1686	3.95
2006	30-Nov	3	T	30	-0.0605	0.0310	-0.0096	2.2885	-0.7109	4.13
2006	30-Nov	1	C	60	-0.0042	0.0848	-0.0245	5.4779	-1.5800	4.13
2006	30-Nov	2	C	60	-0.0003	0.0090	-0.0026	0.8104	-0.2337	4.57
2006	30-Nov	3	C	60	-0.0039	0.0000	0.0000	2.4113	-0.6955	4.22
2006	30-Nov	1	T	60	-0.0027	0.0442	-0.0128	5.3048	-1.5400	4
2006	30-Nov	2	T	60	-0.0087	0.0000	0.0000	6.9962	-2.0310	3.96
2006	30-Nov	3	T	60	-0.0188	0.0365	-0.0106	6.1134	-1.7747	4.06
2006	30-Nov	1	C	120	-0.0499	0.0000	0.0000	10.8372	-2.6343	4.03
2006	30-Nov	2	C	120	-0.0093	0.0387	-0.0094	4.7809	-1.1621	4.23
2006	30-Nov	3	C	120	-0.0056	0.0000	0.0000	5.7324	-1.3934	4.13
2006	30-Nov	1	T	120	-0.0026	0.0000	0.0000	2.0833	-0.4939	4.18

year	date	rep	trt	depth cm	Zn2062 kg/ha	NH4-N ug/ml	NH4-N kg/ha	nitrate ug/ml	nitrate kg/ha	pH
2006	30-Nov	2	T	120	-0.0067	0.0000	0.0000	13.6849	-3.2442	3.95
2006	30-Nov	3	T	120	-0.0035	0.0497	-0.0118	2.7574	-0.6537	4.29
2006	30-Nov	1	C	200	-0.0016	0.0000	0.0000	0.4426	-0.1021	4.92
2006	30-Nov	2	C	200	-0.0034	0.0079	-0.0018	1.2743	-0.2940	4.52

2006	30-Nov	3	C	200	-0.0315	0.0000	0.0000	0.9404	-0.2170	4.49
2006	30-Nov	1	T	200	-0.0002	0.0000	0.0000	0.0000	0.0000	5
2006	30-Nov	2	T	200	-0.0032	0.0000	0.0000	1.4949	-0.3364	4.47
2006	30-Nov	3	T	200	-0.0090	0.0000	0.0000	1.1206	-0.2521	4.39
2006	7-Dec	1	T	15						
2006	7-Dec	2	T	15						
2006	7-Dec	3	T	15	-0.0057	0.0398	-0.0035	4.0152	-0.3522	4.2
2006	7-Dec	1	C	30	-0.0017	0.0000	0.0000	6.2439	-0.1063	4.14
2006	7-Dec	2	C	30	-0.0030	0.0499	-0.0008	0.2341	-0.0040	4.58
2006	7-Dec	3	C	30						
2006	7-Dec	1	T	30	0.0000	0.0000	0.0000	1.3727	0.0100	4.46
2006	7-Dec	2	T	30	0.0004	0.0000	0.0000	10.5915	0.0774	4.01
2006	7-Dec	3	T	30	0.0036	0.0464	0.0003	2.1087	0.0154	4.17
2006	7-Dec	1	C	60	0.0003	0.0004	0.0000	5.9304	0.0455	4.11
2006	7-Dec	2	C	60	0.0001	0.0564	0.0004	1.7622	0.0135	4.42
2006	7-Dec	3	C	60	0.0019	0.0000	0.0000	2.7236	0.0209	4.24
2006	7-Dec	1	T	60	-0.0003	0.0332	-0.0005	6.5499	-0.1007	4.16
2006	7-Dec	2	T	60	-0.0005	0.0000	0.0000	12.2472	-0.1882	3.95
2006	7-Dec	3	T	60	-0.0008	0.0013	0.0000	6.5206	-0.1002	4.09
2006	7-Dec	1	C	120	-0.0036	0.0136	-0.0009	11.8023	-0.7739	4.14
2006	7-Dec	2	C	120	-0.0025	0.0213	-0.0014	4.9947	-0.3275	4.28
2006	7-Dec	3	C	120	-0.0037	0.0202	-0.0013	5.9191	-0.3881	4.18
2006	7-Dec	1	T	120	-0.0009	0.0000	0.0000	2.4746	-0.2617	4.33
2006	7-Dec	2	T	120	-0.0039	0.0000	0.0000	14.1994	-1.5018	3.97
2006	7-Dec	3	T	120	-0.0028	0.4287	-0.0453	5.5087	-0.5826	4.18
2006	7-Dec	1	C	200	-0.0012	0.0136	-0.0024	0.6850	-0.1196	4.8
2006	7-Dec	2	C	200	-0.0057	0.0004	-0.0001	0.9214	-0.1608	4.43
2006	7-Dec	3	C	200	-0.0069	0.0000	0.0000	0.9960	-0.1738	4.51
2006	7-Dec	1	T	200	-0.0006	0.0000	0.0000	1.0877	-0.2249	5.02
2006	7-Dec	2	T	200	-0.0033	0.0090	-0.0019	1.4183	-0.2932	4.41
2006	7-Dec	3	T	200	-0.0085	0.0000	0.0000	1.3843	-0.2862	4.42
2006	14-Dec	1	C	15	0.0001	0.0000	0.0000	1.1717	0.0264	4.66
2006	14-Dec	2	C	15	0.0018	0.1761	0.0040	2.6013	0.0586	4.18
2006	14-Dec	3	C	15	0.0003	0.0000	0.0000	0.7600	0.0171	4.43
2006	14-Dec	1	T	15	0.0000	0.0323	0.0000	1.0619	0.0004	4.41
2006	14-Dec	2	T	15	0.0000	0.0000	0.0000	0.8076	0.0003	4.21
2006	14-Dec	3	T	15	0.0001	0.0000	0.0000	3.1486	0.0011	4.26
2006	14-Dec	1	C	30	-0.0015	0.0000	0.0000	11.6715	-0.2962	3.95
2006	14-Dec	2	C	30	-0.0002	0.0000	0.0000	0.0574	-0.0015	4.68
2006	14-Dec	3	C	30	-0.0175	0.0000	0.0000	5.1201	-0.1299	.
2006	14-Dec	1	T	30	-0.0010	0.0000	0.0000	1.6209	-0.1510	4.38
2006	14-Dec	2	T	30	-0.0060	0.0000	0.0000	12.0935	-1.1267	3.92

year	date	rep	trt	depth cm	Zn2062 kg/ha	NH4-N ug/ml	NH4-N kg/ha	nitrate ug/ml	nitrate kg/ha	pH
2006	14-Dec	3	T	30	-0.0341	0.0000	0.0000	3.2507	-0.3028	4.11
2006	14-Dec	1	C	60	-0.0029	0.0000	0.0000	6.1121	-0.5345	4.02
2006	14-Dec	2	C	60	-0.0003	0.0000	0.0000	1.7306	-0.1514	4.48
2006	14-Dec	3	C	60	-0.0047	0.0092	-0.0008	2.4595	-0.2151	4.22

2006	14-Dec	1 T	60	-0.0007	0.0000	0.0000	5.7801	-0.4879	4.15
2006	14-Dec	2 T	60	-0.0017	0.0000	0.0000	7.4593	-0.6296	3.94
2006	14-Dec	3 T	60	-0.0017	0.0000	0.0000	5.8328	-0.4923	4.04
2006	14-Dec	1 C	120	-0.0010	0.0000	0.0000	11.5759	-0.5784	4.08
2006	14-Dec	2 C	120	-0.0015	0.0000	0.0000	4.8962	-0.2447	4.21
2006	14-Dec	3 C	120	-0.0017	0.0103	-0.0005	6.5241	-0.3260	4.04
2006	14-Dec	1 T	120	-0.0006	0.0202	-0.0012	3.2157	-0.1966	4.3
2006	14-Dec	2 T	120	-0.0018	0.0000	0.0000	14.7414	-0.9015	3.93
2006	14-Dec	3 T	120	-0.0009	0.0356	-0.0022	3.3067	-0.2022	4.26
2006	14-Dec	1 C	200	-0.0007	0.0000	0.0000	0.3198	-0.0310	4.71
2006	14-Dec	2 C	200	-0.0023	0.0000	0.0000	0.8877	-0.0861	4.48
2006	14-Dec	3 C	200	-0.0026	0.0000	0.0000	0.4280	-0.0415	4.53
2006	14-Dec	1 T	200	0.0000	0.0026	-0.0003	0.3090	-0.0399	4.9
2006	14-Dec	2 T	200	-0.0020	0.0000	0.0000	1.4489	-0.1870	4.38
2006	14-Dec	3 T	200	-0.0021	0.0000	0.0000	1.1049	-0.1426	4.37

Figure C1. Flux of Ca and Sr in free-draining soil solution collected using zero-tension lysimeters from a Colombian savanna Oxisol which had received 0 or 20 t ha⁻¹ of biochar, three years before sampling started. Rainfall is shown with bars. Arrows indicate fertilization events, and the shaded area shows the dry season between two cropping periods. Note the different scales on y-axes. *: rainfall data missing for the period

shown.

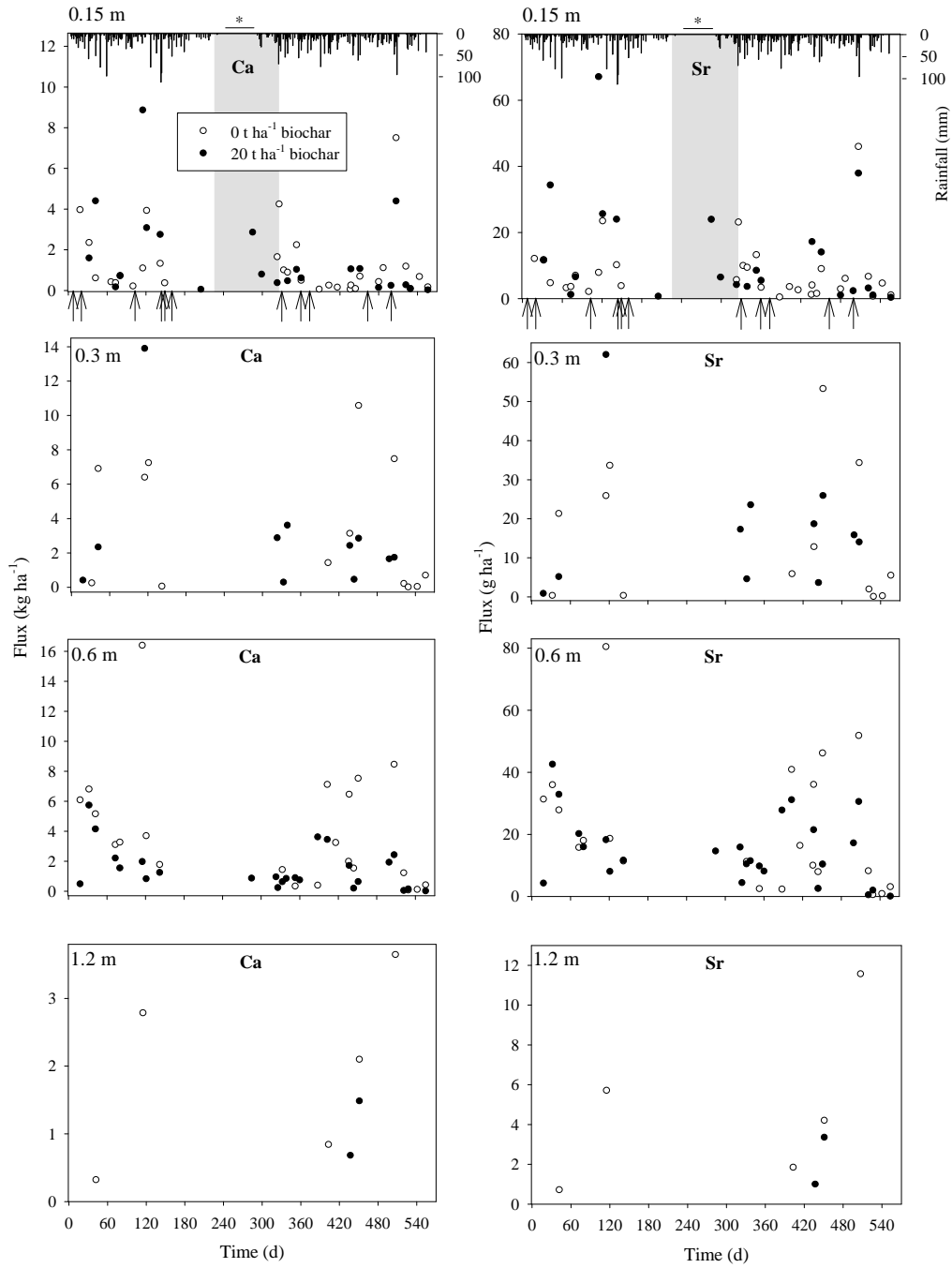


Table C4. Data for Figure C1.

yr	sample date	graph date	trt	depth cm	Ca3179 kg/ha	Ca3179 stderr	Sr4215 kg/ha	Sr4215 stderr
5	4	1	C	15	-5.7505	3.6766	-0.0283	0.0168
5	5	4	C	15	-0.5436	0.2341	-0.0030	0.0012
5	6	10	C	15	-1.3079	0.3934	-0.0065	0.0019

5	7	16 C	15	-3.0262	0.9983	-0.0147	0.0022	
5	8	23 C	15	-0.4554	0.2754	-0.0021	0.0009	
5	9	30 C	15	-1.0740	0.3850	-0.0060	0.0015	
5	10	37 C	15	-2.3113	1.9998	-0.0115	0.0076	
5	11	44 C	15	-1.9768	0.9320	-0.0115	0.0034	
5	12	52 C	15	-0.9202	0.2724	-0.0065	0.0021	
5	13	59 C	15	-0.2535	0.1101	-0.0047	0.0026	
5	14	66 C	15	-0.2556	0.1060	-0.0019	0.0004	
5	15	73 C	15	-0.1279	0.0521	-0.0015	0.0003	
5	16	80 C	15	-0.5983	0.1080	-0.0043	0.0002	
5	17	87 C	15	-0.0233	0.0078	-0.0002	0.0000	
5	18	94 C	15	-0.0238	0.0086	-0.0002	0.0000	
5	19	100 C	15	-0.0700	0.0305	-0.0005	0.0001	
5	20	107 C	15	0.1461	0.0727	0.0006	0.0003	
5	21	115 C	15	-2.2642	1.3379	-0.0095	0.0044	
5	22	121 C	15	-0.9711	0.5550	-0.0040	0.0021	
5	23	128 C	15	-4.7114	2.7572	-0.0184	0.0082	
5	24	136 C	15	-0.2194	0.1269	-0.0007	0.0003	
5	25	142 C	15	-1.9280	1.3006	-0.0063	0.0036	
5	26	149 C	15	-0.6626	0.5139	-0.0023	0.0016	
5	27	156 C	15	-0.4097	0.2364	-0.0016	0.0007	
5	28	163 C	15	-1.2361	0.9346	-0.0043	0.0024	
5	29	172 C	15	-0.4339	0.3607	-0.0015	0.0009	
6	2	320 C	15	-0.0727	0.0400	-0.0005	0.0003	
6	3	326 C	15	-1.5042	0.8890	-0.0095	0.0054	
6	4	333 C	15	-0.6896	0.2453	-0.0043	0.0013	
6	5	341 C	15	-1.0054	0.7973	-0.0048	0.0026	
6	6	348 C	15	-0.5441	0.1237	-0.0035	0.0005	
6	7	356 C	15	-1.4100	0.5714	-0.0078	0.0007	
6	8	361 C	15	-3.0102	1.0929	-0.0160	0.0051	
6	9	369 C	15	-1.5943	1.0335	-0.0073	0.0023	
6	10	375 C	15	-1.0942	0.5008	-0.0057	0.0010	
6	11	382 C	15	-0.9672	0.3582	-0.0060	0.0012	
6	12	389 C	15	-2.0038	0.5227	-0.0141	0.0039	
6	13	395 C	15	-0.6949	0.1295	-0.0048	0.0009	
6	14	403 C	15	-0.6082	0.2445	-0.0042	0.0023	
6	15	410 C	15	-0.0497	0.0051	-0.0003	0.0001	
6	16	416 C	15	-0.1018	0.0270	-0.0006	0.0002	
6	17	424 C	15	-0.0467	0.0273	-0.0004	0.0002	
6	18	431 C	15	-0.0534	0.0163	-0.0005	0.0001	
6	19	438 C	15	-0.2452	0.1502	-0.0018	0.0011	
6	20	445 C	15	-0.1029	0.0228	-0.0007	0.0001	
6	21	452 C	15	-0.1077	0.0362	-0.0007	0.0000	
yr	sample	graph	trt	depth	Ca3179	Ca3179	Sr4215	Sr4215
	date	date		cm	kg/ha	stderr	kg/ha	stderr
6	22	459 C	15	-0.0157	0.0044	-0.0001	0.0000	
6	23	466 C	15	-0.1742	0.0877	-0.0010	0.0002	
6	24	473 C	15	-0.2602	0.1111	-0.0013	0.0004	
6	25	480 C	15	-1.2636	0.5075	-0.0060	0.0021	
6	26	487 C	15	-1.7410	0.8067	-0.0081	0.0019	

6	27	494 C	15	-0.5317	0.3426	-0.0022	0.0009
6	28	501 C	15	-2.0197	1.2986	-0.0084	0.0036
6	29	508 C	15	-4.2100	3.3198	-0.0149	0.0099
6	30	515 C	15	0.0924	0.0810	0.0004	0.0003
6	31	522 C	15	-1.0973	0.9296	-0.0039	0.0027
6	32	529 C	15	-1.4858	1.3353	-0.0057	0.0046
6	33	536 C	15	-0.6657	0.6064	-0.0024	0.0019
6	34	543 C	15	-0.5657	0.4579	-0.0023	0.0015
6	36	557 C	15	0.0167	0.0071	0.0001	0.0000
5	4	1 T	15	-22.0210	8.4855	-0.0826	0.0335
5	5	4 T	15	-2.2425	1.0269	-0.0092	0.0042
5	6	10 T	15	-4.6322	1.4385	-0.0203	0.0079
5	7	16 T	15	-9.0348	3.2143	-0.0350	0.0133
5	8	23 T	15	-0.7076	0.0803	-0.0029	0.0003
5	9	30 T	15	-5.6312	1.4491	-0.0239	0.0069
5	10	37 T	15	-2.6891	0.9311	-0.0103	0.0025
5	11	44 T	15	-4.4311	3.0968	-0.0162	0.0091
5	12	52 T	15	-1.1003	0.7320	-0.0063	0.0018
5	13	59 T	15	-0.9708	0.4917	-0.0053	0.0008
5	14	66 T	15	-1.5448	0.7362	-0.0060	0.0021
5	15	73 T	15	-0.7521	0.1470	-0.0037	0.0005
5	16	80 T	15	-4.8971	1.6828	-0.0178	0.0038
5	17	87 T	15	-0.2082	0.0643	-0.0007	0.0002
5	18	94 T	15	-0.2705	0.0943	-0.0011	0.0003
5	19	100 T	15	-0.6282	0.1800	-0.0024	0.0007
5	20	107 T	15	0.3459	0.0197	0.0012	0.0001
5	21	115 T	15	-11.9646	2.9178	-0.0392	0.0068
5	22	121 T	15	-9.2215	3.7567	-0.0311	0.0109
5	23	128 T	15	-21.2940	1.6862	-0.0772	0.0005
5	24	136 T	15	-0.5179	0.0909	-0.0018	0.0002
5	25	142 T	15	-4.5471	0.6500	-0.0160	0.0015
5	26	149 T	15	-1.2764	0.1953	-0.0051	0.0012
5	27	156 T	15	-1.0770	0.3220	-0.0037	0.0007
5	28	163 T	15	-0.9995	0.0724	-0.0036	0.0002
5	29	172 T	15	-0.3376	0.0844	-0.0012	0.0002
6	2	320 T	15	-0.2905	0.2145	-0.0011	0.0008
6	3	326 T	15	-2.3939	1.1331	-0.0118	0.0061
6	4	333 T	15	-5.4365	2.0905	-0.0239	0.0086
6	5	341 T	15	-26.6160	15.6268	-0.1074	0.0599
6	6	348 T	15	-3.5581	0.6713	-0.0165	0.0025
6	7	356 T	15	-5.0685	2.6739	-0.0282	0.0115

yr	sample date	graph date	trt	depth cm	Ca3179 kg/ha	Ca3179 stderr	Sr4215 kg/ha	Sr4215 stderr
6	8	361	T	15	-11.8338	7.1549	-0.0572	0.0333
6	9	369	T	15	-19.8097	9.7623	-0.0945	0.0433
6	10	375	T	15	-9.5712	4.4537	-0.0480	0.0206
6	11	382	T	15	-3.7850	1.1871	-0.0207	0.0061
6	12	389	T	15	-2.9882	0.5163	-0.0164	0.0030

6	13	395 T	15	-1.0170	0.1004	-0.0049	0.0006
6	14	403 T	15	-1.8702	0.1568	-0.0096	0.0002
6	15	410 T	15	-0.5195	0.1448	-0.0025	0.0006
6	16	416 T	15	-0.9822	0.2524	-0.0050	0.0014
6	17	424 T	15	-0.2352	0.0962	-0.0012	0.0004
6	18	431 T	15	-0.3025	0.0927	-0.0017	0.0004
6	19	438 T	15	-1.3751	0.5485	-0.0078	0.0029
6	20	445 T	15	-0.9767	0.3463	-0.0055	0.0015
6	21	452 T	15	-0.9006	0.2437	-0.0052	0.0013
6	22	459 T	15	-0.0651	0.0173	-0.0004	0.0001
6	23	466 T	15	-0.3830	0.1662	-0.0022	0.0009
6	24	473 T	15	-0.9870	0.4125	-0.0055	0.0020
6	25	480 T	15	-2.4551	0.6001	-0.0137	0.0030
6	26	487 T	15	-2.5668	0.3683	-0.0147	0.0015
6	27	494 T	15	-0.8598	0.2260	-0.0053	0.0017
6	28	501 T	15	-2.0766	0.4515	-0.0131	0.0036
6	29	508 T	15	-3.7355	1.7396	-0.0207	0.0087
6	30	515 T	15	0.0320	0.0084	0.0002	0.0000
6	31	522 T	15	-0.6975	0.3861	-0.0036	0.0018
6	32	529 T	15	-0.7636	0.3145	-0.0045	0.0017
6	33	536 T	15	-0.3399	0.1160	-0.0021	0.0007
6	34	543 T	15	-0.4527	0.0519	-0.0022	0.0006
6	35	550 T	15	-0.1385	0.0000	-0.0008	0.0000
6	36	557 T	15	0.0003	0.0001	0.0000	0.0000
5	4	1 C	30	-10.0535	3.6405	-0.0428	0.0135
5	5	4 C	30	-1.3164	0.7955	-0.0062	0.0029
5	6	10 C	30	-4.0877	1.3966	-0.0169	0.0059
5	7	16 C	30	-6.1986	1.5630	-0.0251	0.0071
5	8	23 C	30	-1.1796	0.2062	-0.0047	0.0010
5	9	30 C	30	-3.8409	1.6057	-0.0163	0.0059
5	10	37 C	30	-1.5095	1.0508	-0.0059	0.0031
5	11	44 C	30	-3.5269	1.7530	-0.0153	0.0075
5	12	52 C	30	-4.2649	1.5748	-0.0232	0.0124
5	13	59 C	30	-0.8855	0.3983	-0.0044	0.0016
5	14	66 C	30	-0.8664	0.3253	-0.0042	0.0016
5	15	73 C	30	-0.2616	0.0774	-0.0021	0.0006
5	16	80 C	30	-0.6818	0.2864	-0.0035	0.0008
5	17	87 C	30	-0.0794	0.0147	-0.0006	0.0001
5	18	94 C	30	-0.0502	0.0142	-0.0006	0.0004
5	19	100 C	30	-0.0813	0.0071	-0.0010	0.0005
5	20	107 C	30	0.0012	0.0004	0.0000	0.0000

yr	sample date	graph date	trt	depth cm	Ca3179 kg/ha	Ca3179 stderr	Sr4215 kg/ha	Sr4215 stderr
5	21	115 C		30	-1.7537	0.6261	-0.0068	0.0024
5	22	121 C		30	-2.0291	1.0505	-0.0090	0.0045
5	23	128 C		30	-9.1368	6.3247	-0.0380	0.0278
5	24	136 C		30	-0.5409	0.2499	-0.0020	0.0011
5	25	142 C		30	-3.1338	1.2847	-0.0114	0.0051

5	26	149 C	30	-1.2107	0.2696	-0.0041	0.0007
5	27	156 C	30	-1.1702	0.5104	-0.0044	0.0018
5	28	163 C	30	-1.7780	0.7600	-0.0058	0.0016
5	29	172 C	30	-0.4409	0.2121	-0.0014	0.0004
5	30	180 C	30	0.1786	0.0000	0.0006	0.0000
6	2	320 C	30	-0.1148	0.0446	-0.0004	0.0002
6	3	326 C	30	-1.9845	0.7983	-0.0110	0.0036
6	4	333 C	30	-0.7083	0.2941	-0.0046	0.0011
6	5	341 C	30	-2.0508	1.5982	-0.0097	0.0054
6	6	348 C	30	-1.7604	0.7352	-0.0098	0.0040
6	7	356 C	30	-3.5014	1.3521	-0.0178	0.0040
6	8	361 C	30	-6.6242	5.8893	-0.0238	0.0198
6	9	369 C	30	-6.4409	4.9905	-0.0258	0.0160
6	10	375 C	30	-6.7685	4.1946	-0.0299	0.0141
6	11	382 C	30	-3.3857	2.2346	-0.0150	0.0076
6	12	389 C	30	-7.0709	3.3210	-0.0370	0.0110
6	13	395 C	30	-2.6029	1.0325	-0.0141	0.0025
6	14	403 C	30	-4.6830	1.9327	-0.0256	0.0051
6	15	410 C	30	-0.4125	0.1584	-0.0042	0.0032
6	16	416 C	30	-0.5902	0.1362	-0.0044	0.0020
6	17	424 C	30	-0.1128	0.0299	-0.0009	0.0003
6	18	431 C	30	-0.0970	0.0231	-0.0009	0.0005
6	19	438 C	30	-0.4435	0.0719	-0.0037	0.0018
6	20	445 C	30	-0.3670	0.0693	-0.0027	0.0009
6	21	452 C	30	-0.3040	0.0836	-0.0023	0.0012
6	22	459 C	30	-0.0294	0.0117	-0.0003	0.0001
6	23	466 C	30	-0.0739	0.0261	-0.0005	0.0001
6	24	473 C	30	-0.1484	0.0895	-0.0008	0.0003
6	25	480 C	30	-0.5367	0.3297	-0.0023	0.0010
6	26	487 C	30	-1.1810	0.6529	-0.0049	0.0020
6	27	494 C	30	-0.6274	0.2848	-0.0027	0.0010
6	28	501 C	30	-2.0123	0.8591	-0.0089	0.0034
6	29	508 C	30	-7.6592	3.9766	-0.0341	0.0150
6	30	515 C	30	-0.0124	0.0061	-0.0001	0.0000
6	31	522 C	30	-1.0108	0.6722	-0.0046	0.0027
6	32	529 C	30	-1.1964	0.8836	-0.0052	0.0032
6	33	536 C	30	-0.4707	0.3248	-0.0023	0.0011
6	34	543 C	30	-0.3955	0.2459	-0.0020	0.0009
6	35	550 C	30	-0.0175	0.0082	-0.0001	0.0001
6	36	557 C	30	-0.0589	0.0286	-0.0003	0.0002
5	4	1 T	30	-9.6976	3.6651	-0.0486	0.0162

yr	sample date	graph date	trt	depth cm	Ca3179 kg/ha	Ca3179 stderr	Sr4215 kg/ha	Sr4215 stderr
5	5		4 T	30	-1.3701	0.4993	-0.0069	0.0027
5	6		10 T	30	-5.1589	2.4965	-0.0224	0.0101
5	7		16 T	30	-10.5929	3.4386	-0.0470	0.0152
5	8		23 T	30	-2.5931	0.3218	-0.0116	0.0023
5	9		30 T	30	-8.5112	2.9155	-0.0436	0.0160

5	10	37 T	30	-12.4847	3.4041	-0.0590	0.0181
5	11	44 T	30	-10.5847	3.1198	-0.0581	0.0267
5	12	52 T	30	-1.5876	0.7022	-0.0072	0.0028
5	13	59 T	30	-1.7718	1.1587	-0.0117	0.0082
5	14	66 T	30	-1.8934	1.2716	-0.0117	0.0082
5	15	73 T	30	-0.7319	0.4676	-0.0053	0.0033
5	16	80 T	30	-1.6893	1.2143	-0.0101	0.0075
5	17	87 T	30	-0.1081	0.0390	-0.0007	0.0002
5	18	94 T	30	-0.0842	0.0270	-0.0006	0.0002
5	19	100 T	30	-0.1489	0.0484	-0.0009	0.0002
5	20	107 T	30	0.0005	0.0001	0.0000	0.0000
5	21	115 T	30	-1.9600	0.4500	-0.0076	0.0018
5	22	121 T	30	-1.3768	0.3612	-0.0051	0.0015
5	23	128 T	30	-11.9559	2.8181	-0.0446	0.0073
5	24	136 T	30	-0.5560	0.0277	-0.0021	0.0002
5	25	142 T	30	-4.3870	1.0066	-0.0156	0.0039
5	26	149 T	30	-1.2808	0.1912	-0.0048	0.0007
5	27	156 T	30	-1.1248	0.0721	-0.0040	0.0003
5	28	163 T	30	-2.0585	0.1321	-0.0078	0.0002
5	29	172 T	30	-0.6318	0.0313	-0.0028	0.0005
5	30	180 T	30	0.1859	0.0000	0.0008	0.0000
6	2	320 T	30	-0.0327	0.0223	-0.0001	0.0001
6	3	326 T	30	-3.8477	1.1460	-0.0229	0.0083
6	4	333 T	30	-1.6998	0.5429	-0.0100	0.0041
6	5	341 T	30	-3.8982	0.7012	-0.0208	0.0067
6	6	348 T	30	-2.7838	0.8048	-0.0135	0.0034
6	7	356 T	30	-4.0935	2.2631	-0.0209	0.0098
6	8	361 T	30	-9.8365	4.3386	-0.0480	0.0207
6	9	369 T	30	-8.6637	3.6174	-0.0415	0.0170
6	10	375 T	30	-8.0573	4.1161	-0.0402	0.0206
6	11	382 T	30	-5.7774	2.5475	-0.0299	0.0127
6	12	389 T	30	-7.7807	2.4621	-0.0432	0.0143
6	13	395 T	30	-2.3943	0.3746	-0.0128	0.0028
6	14	403 T	30	-2.6088	0.7800	-0.0136	0.0043
6	15	410 T	30	-0.3781	0.1531	-0.0018	0.0009
6	16	416 T	30	-0.5176	0.2213	-0.0025	0.0013
6	17	424 T	30	-0.0886	0.0383	-0.0005	0.0003
6	18	431 T	30	-0.0821	0.0358	-0.0005	0.0002
6	19	438 T	30	-0.6992	0.4636	-0.0036	0.0025
6	20	445 T	30	-0.6691	0.3222	-0.0033	0.0016
6	21	452 T	30	-0.7994	0.3783	-0.0039	0.0017

yr	sample date	graph date	trt	depth cm	Ca3179 kg/ha	Ca3179 stderr	Sr4215 kg/ha	Sr4215 stderr
6	22	459	T	30	-0.0431	0.0135	-0.0003	0.0001
6	23	466	T	30	-0.1026	0.0376	-0.0006	0.0002
6	24	473	T	30	-0.1726	0.0627	-0.0010	0.0003
6	25	480	T	30	-0.5040	0.0795	-0.0026	0.0002
6	26	487	T	30	-1.2985	0.1787	-0.0068	0.0006

6	27	494 T	30	-0.6402	0.1564	-0.0032	0.0004
6	28	501 T	30	-2.3065	0.7302	-0.0118	0.0024
6	29	508 T	30	-10.1549	4.3505	-0.0471	0.0192
6	30	515 T	30	-0.1701	0.0714	-0.0008	0.0003
6	31	522 T	30	-0.3732	0.3732	-0.0017	0.0017
6	32	529 T	30	-2.3875	1.1968	-0.0120	0.0057
6	33	536 T	30	-1.0742	0.4122	-0.0056	0.0018
6	34	543 T	30	-0.9363	0.4721	-0.0049	0.0022
6	35	550 T	30	0.0208	0.0105	0.0001	0.0000
6	36	557 T	30	-0.3039	0.1813	-0.0016	0.0008
5	4	1 C	60	-2.5213	1.2096	-0.0155	0.0043
5	5	4 C	60	-0.4829	0.3551	-0.0029	0.0010
5	6	10 C	60	-1.1845	0.5746	-0.0067	0.0016
5	7	16 C	60	-2.0206	0.8303	-0.0110	0.0024
5	8	23 C	60	-0.8474	0.3434	-0.0046	0.0009
5	9	30 C	60	-2.1124	0.4884	-0.0104	0.0013
5	10	37 C	60	-2.2077	0.2437	-0.0115	0.0008
5	11	44 C	60	-3.2731	0.5007	-0.0166	0.0024
5	12	52 C	60	-4.0463	1.4873	-0.0230	0.0085
5	13	59 C	60	-1.3028	0.5137	-0.0066	0.0022
5	14	66 C	60	-2.7739	0.6312	-0.0117	0.0028
5	15	73 C	60	-1.1335	0.3600	-0.0054	0.0016
5	16	80 C	60	-3.3380	1.9568	-0.0140	0.0077
5	17	87 C	60	-1.0129	0.5058	-0.0040	0.0019
5	18	94 C	60	-0.3046	0.1534	-0.0013	0.0006
5	19	100 C	60	-0.2966	0.1390	-0.0013	0.0005
5	20	107 C	60	-0.1891	0.0820	-0.0007	0.0003
5	21	115 C	60	-2.0076	0.6073	-0.0067	0.0021
5	22	121 C	60	-1.1232	0.4308	-0.0042	0.0015
5	23	128 C	60	-6.0396	1.7966	-0.0204	0.0059
5	24	136 C	60	-0.5991	0.1680	-0.0021	0.0006
5	25	142 C	60	-1.7153	0.5941	-0.0058	0.0019
5	26	149 C	60	-0.9899	0.3481	-0.0040	0.0014
5	27	156 C	60	-0.6663	0.1992	-0.0024	0.0006
5	28	163 C	60	-1.2972	0.4080	-0.0050	0.0015
5	29	172 C	60	-0.4577	0.1536	-0.0018	0.0006
5	30	180 C	60	0.0003	0.0001	0.0000	0.0000
6	2	320 C	60	-0.0253	0.0079	-0.0002	0.0001
6	3	326 C	60	-1.9945	1.2249	-0.0110	0.0060
6	4	333 C	60	-0.8537	0.4642	-0.0048	0.0024
6	5	341 C	60	-1.9001	0.5697	-0.0099	0.0027

yr	sample date	graph date	trt	depth cm	Ca3179 kg/ha	Ca3179 stderr	Sr4215 kg/ha	Sr4215 stderr
6	6	348	C	60	-0.7070	0.1896	-0.0037	0.0009
6	7	356	C	60	-1.5782	0.4676	-0.0082	0.0021
6	8	361	C	60	-1.3966	0.5641	-0.0081	0.0023
6	9	369	C	60	-1.9191	0.7759	-0.0099	0.0042
6	10	375	C	60	-1.8083	0.6787	-0.0096	0.0040

6	11	382 C	60	-1.6064	0.5606	-0.0086	0.0031
6	12	389 C	60	-4.1170	1.6134	-0.0226	0.0094
6	13	395 C	60	-2.7823	0.9256	-0.0139	0.0050
6	14	403 C	60	-5.7570	1.7533	-0.0298	0.0104
6	15	410 C	60	-2.2920	0.5262	-0.0113	0.0030
6	16	416 C	60	-2.7530	0.6726	-0.0139	0.0037
6	17	424 C	60	-0.5204	0.1066	-0.0027	0.0006
6	18	431 C	60	-0.3156	0.0548	-0.0017	0.0004
6	19	438 C	60	-1.6087	0.1441	-0.0079	0.0007
6	20	445 C	60	-0.7931	0.2545	-0.0043	0.0013
6	21	452 C	60	-0.7813	0.2633	-0.0040	0.0012
6	22	459 C	60	-0.0776	0.0059	-0.0005	0.0000
6	23	466 C	60	-0.1022	0.0070	-0.0006	0.0001
6	24	473 C	60	-0.1046	0.0141	-0.0007	0.0001
6	25	480 C	60	-0.1934	0.0374	-0.0010	0.0002
6	26	487 C	60	-0.3679	0.0136	-0.0019	0.0003
6	27	494 C	60	-0.1845	0.0683	-0.0009	0.0003
6	28	501 C	60	-0.3252	0.0613	-0.0019	0.0004
6	29	508 C	60	-2.4140	0.8639	-0.0138	0.0054
6	30	515 C	60	-0.1007	0.0437	-0.0005	0.0002
6	31	522 C	60	-0.0935	0.0153	-0.0004	0.0000
6	32	529 C	60	-0.6211	0.0732	-0.0036	0.0004
6	33	536 C	60	-0.2319	0.0516	-0.0013	0.0002
6	34	543 C	60	-0.2692	0.0647	-0.0016	0.0004
6	35	550 C	60	0.0106	0.0020	0.0001	0.0000
6	36	557 C	60	-0.0912	0.0152	-0.0005	0.0000
5	4	1 T	60	-3.3701	1.4824	-0.0214	0.0089
5	5	4 T	60	-0.7366	0.1529	-0.0047	0.0008
5	6	10 T	60	-2.2345	0.3511	-0.0117	0.0022
5	7	16 T	60	-3.8647	0.6114	-0.0188	0.0041
5	8	23 T	60	-1.8262	0.3269	-0.0083	0.0018
5	9	30 T	60	-3.9093	1.3121	-0.0208	0.0051
5	10	37 T	60	-7.1214	1.4273	-0.0301	0.0064
5	11	44 T	60	-9.9787	2.6485	-0.0448	0.0111
5	12	52 T	60	-4.9503	2.3009	-0.0197	0.0091
5	13	59 T	60	-4.2024	0.5586	-0.0177	0.0033
5	14	66 T	60	-7.2523	0.7337	-0.0289	0.0050
5	15	73 T	60	-3.3000	0.3907	-0.0143	0.0024
5	16	80 T	60	-9.1543	3.2572	-0.0351	0.0154
5	17	87 T	60	-2.3475	0.5156	-0.0087	0.0021
5	18	94 T	60	-0.7465	0.1921	-0.0030	0.0008

yr	sample date	graph date	trt	depth cm	Ca3179 kg/ha	Ca3179 stderr	Sr4215 kg/ha	Sr4215 stderr
5	19	100	T	60	-0.7677	0.1924	-0.0030	0.0008
5	20	107	T	60	-0.4736	0.1264	-0.0017	0.0005
5	21	115	T	60	-4.0003	1.0576	-0.0147	0.0045
5	22	121	T	60	-2.3730	0.6606	-0.0089	0.0030
5	23	128	T	60	-12.8434	3.8349	-0.0494	0.0166

5	24	136 T	60	-1.2708	0.3265	-0.0048	0.0013
5	25	142 T	60	-3.3754	0.8670	-0.0121	0.0034
5	26	149 T	60	-1.5736	0.3732	-0.0059	0.0017
5	27	156 T	60	-1.2555	0.3189	-0.0048	0.0012
5	28	163 T	60	-2.3676	0.6450	-0.0090	0.0023
5	29	172 T	60	-0.8885	0.2578	-0.0040	0.0008
5	30	180 T	60	0.0045	0.0008	0.0000	0.0000
6	3	326 T	60	-5.2026	3.5856	-0.0240	0.0142
6	4	333 T	60	-2.9797	1.6526	-0.0136	0.0063
6	5	341 T	60	-5.4012	2.9294	-0.0234	0.0103
6	6	348 T	60	-1.8272	0.8622	-0.0085	0.0032
6	7	356 T	60	-4.0432	1.4490	-0.0188	0.0059
6	8	361 T	60	-5.1538	2.9483	-0.0222	0.0107
6	9	369 T	60	-5.6712	3.5924	-0.0237	0.0134
6	10	375 T	60	-5.0406	3.3308	-0.0212	0.0130
6	11	382 T	60	-4.2712	2.8370	-0.0184	0.0111
6	12	389 T	60	-12.6389	8.1335	-0.0529	0.0310
6	13	395 T	60	-7.6475	4.5462	-0.0328	0.0177
6	14	403 T	60	-14.9772	6.6332	-0.0664	0.0274
6	15	410 T	60	-6.4378	2.5025	-0.0293	0.0105
6	16	416 T	60	-8.4110	2.8453	-0.0403	0.0133
6	17	424 T	60	-1.8732	0.6071	-0.0093	0.0030
6	18	431 T	60	-1.0348	0.3730	-0.0053	0.0018
6	19	438 T	60	-4.4732	1.7047	-0.0217	0.0075
6	20	445 T	60	-4.4265	1.6608	-0.0235	0.0090
6	21	452 T	60	-5.1062	2.4169	-0.0276	0.0124
6	22	459 T	60	-0.3715	0.1312	-0.0020	0.0006
6	23	466 T	60	-0.3989	0.1620	-0.0022	0.0008
6	24	473 T	60	-0.5283	0.2010	-0.0031	0.0011
6	25	480 T	60	-0.5680	0.2006	-0.0032	0.0010
6	26	487 T	60	-1.1874	0.5141	-0.0070	0.0030
6	27	494 T	60	-0.4849	0.1587	-0.0026	0.0008
6	28	501 T	60	-0.7906	0.2798	-0.0044	0.0013
6	29	508 T	60	-10.9738	5.5113	-0.0616	0.0333
6	30	515 T	60	-0.4491	0.1690	-0.0023	0.0009
6	31	522 T	60	-0.2619	0.0896	-0.0015	0.0007
6	32	529 T	60	-1.7490	0.5853	-0.0097	0.0030
6	33	536 T	60	-1.0180	0.3705	-0.0052	0.0015
6	34	543 T	60	-1.0375	0.3093	-0.0052	0.0011
6	35	550 T	60	-0.0706	0.0251	-0.0004	0.0001
6	36	557 T	60	-0.3077	0.1144	-0.0017	0.0005

yr	sample date	graph date	trt	depth cm	Ca3179 kg/ha	Ca3179 stderr	Sr4215 kg/ha	Sr4215 stderr
5	4	1	C	120	-0.8614	0.2215	-0.0090	0.0029
5	5	4	C	120	-0.2031	0.0166	-0.0023	0.0002
5	6	10	C	120	-0.3380	0.0530	-0.0034	0.0003
5	7	16	C	120	-0.6416	0.1143	-0.0061	0.0017
5	8	23	C	120	-0.4656	0.0511	-0.0049	0.0011

5	9	30 C	120	-0.6554	0.1959	-0.0064	0.0020
5	10	37 C	120	-1.0498	0.2767	-0.0074	0.0018
5	11	44 C	120	-1.3868	0.2622	-0.0101	0.0029
5	12	52 C	120	-0.9890	0.2981	-0.0087	0.0019
5	13	59 C	120	-0.3031	0.0248	-0.0033	0.0006
5	14	66 C	120	-0.4575	0.0438	-0.0043	0.0005
5	15	73 C	120	-0.3357	0.0541	-0.0033	0.0003
5	16	80 C	120	-0.7862	0.0321	-0.0052	0.0004
5	17	87 C	120	-0.6768	0.1010	-0.0050	0.0011
5	18	94 C	120	-0.1950	0.0480	-0.0016	0.0005
5	19	100 C	120	-0.1423	0.0403	-0.0011	0.0004
5	20	107 C	120	-0.1934	0.0618	-0.0011	0.0004
5	21	115 C	120	-0.8100	0.0571	-0.0032	0.0006
5	22	121 C	120	-0.6164	0.1100	-0.0024	0.0002
5	23	128 C	120	-3.0009	0.3566	-0.0114	0.0024
5	24	136 C	120	-0.8717	0.0868	-0.0035	0.0005
5	25	142 C	120	-0.7198	0.0816	-0.0032	0.0006
5	26	149 C	120	-1.6859	0.1702	-0.0075	0.0010
5	27	156 C	120	-0.4407	0.1314	-0.0024	0.0008
5	28	163 C	120	-0.8495	0.1125	-0.0042	0.0005
5	29	172 C	120	-0.6972	0.0812	-0.0035	0.0004
5	30	180 C	120	-0.1178	0.0208	-0.0007	0.0001
5	31	187 C	120	0.0255	0.0063	0.0002	0.0000
5	32	194 C	120	0.0767	0.0000	0.0003	0.0000
6	3	326 C	120	-1.0145	0.3589	-0.0064	0.0017
6	4	333 C	120	-1.0838	0.3495	-0.0075	0.0022
6	5	341 C	120	-1.9294	0.2571	-0.0129	0.0028
6	6	348 C	120	-0.8792	0.1716	-0.0059	0.0005
6	7	356 C	120	-1.3202	0.3825	-0.0087	0.0014
6	8	361 C	120	-1.2322	0.5824	-0.0072	0.0030
6	9	369 C	120	-1.1947	0.3297	-0.0077	0.0005
6	10	375 C	120	-1.2667	0.2779	-0.0082	0.0005
6	11	382 C	120	-0.9567	0.1768	-0.0064	0.0007
6	12	389 C	120	-2.4412	0.3676	-0.0158	0.0009
6	13	395 C	120	-1.6162	0.1976	-0.0093	0.0005
6	14	403 C	120	-3.3551	0.0896	-0.0202	0.0020
6	15	410 C	120	-1.2207	0.2270	-0.0083	0.0004
6	16	416 C	120	-1.3971	0.2843	-0.0089	0.0002
6	17	424 C	120	-0.6349	0.1136	-0.0041	0.0001
6	18	431 C	120	-0.1977	0.0246	-0.0013	0.0001
6	19	438 C	120	-0.6838	0.0734	-0.0047	0.0006

yr	sample date	graph date	trt	depth cm	Ca3179 kg/ha	Ca3179 stderr	Sr4215 kg/ha	Sr4215 stderr
6	20	445 C		120	-1.1163	0.0750	-0.0084	0.0011
6	21	452 C		120	-1.8882	0.1829	-0.0130	0.0010
6	22	459 C		120	-0.2094	0.1022	-0.0018	0.0007
6	23	466 C		120	-0.1948	0.0254	-0.0015	0.0001
6	24	473 C		120	-0.2514	0.0209	-0.0019	0.0002

6	25	480 C	120	-0.2561	0.0182	-0.0018	0.0001
6	26	487 C	120	-0.4815	0.0380	-0.0030	0.0002
6	27	494 C	120	-0.3496	0.0572	-0.0025	0.0002
6	28	501 C	120	-0.3671	0.0503	-0.0025	0.0002
6	29	508 C	120	-4.7456	0.1537	-0.0275	0.0016
6	30	515 C	120	-0.3896	0.0694	-0.0026	0.0002
6	31	522 C	120	-0.0316	0.0054	-0.0002	0.0000
6	32	529 C	120	-0.6450	0.0708	-0.0044	0.0004
6	33	536 C	120	-0.7626	0.0713	-0.0051	0.0002
6	34	543 C	120	-0.7504	0.1465	-0.0048	0.0003
6	35	550 C	120	-0.1895	0.0307	-0.0014	0.0001
6	36	557 C	120	-0.1672	0.0169	-0.0011	0.0001
5	4	1 T	120	-0.8109	0.6046	-0.0093	0.0041
5	5	4 T	120	-0.2039	0.1237	-0.0030	0.0010
5	6	10 T	120	-0.4101	0.3108	-0.0043	0.0026
5	7	16 T	120	-0.6138	0.4009	-0.0056	0.0026
5	8	23 T	120	-0.4360	0.3159	-0.0041	0.0021
5	9	30 T	120	-0.6856	0.3587	-0.0063	0.0026
5	10	37 T	120	-0.9667	0.5207	-0.0076	0.0035
5	11	44 T	120	-1.0562	0.6434	-0.0092	0.0046
5	12	52 T	120	-0.3577	0.1220	-0.0059	0.0018
5	13	59 T	120	-0.3542	0.2377	-0.0048	0.0011
5	14	66 T	120	-0.5064	0.3271	-0.0043	0.0021
5	15	73 T	120	-0.3190	0.2154	-0.0031	0.0014
5	16	80 T	120	-0.9467	0.5857	-0.0067	0.0039
5	17	87 T	120	-0.5874	0.3713	-0.0044	0.0019
5	18	94 T	120	-0.1376	0.0929	-0.0012	0.0005
5	19	100 T	120	-0.0964	0.0649	-0.0008	0.0004
5	20	107 T	120	-0.1362	0.0779	-0.0007	0.0004
5	21	115 T	120	-0.4868	0.2555	-0.0023	0.0014
5	22	121 T	120	-0.3735	0.1209	-0.0015	0.0007
5	23	128 T	120	-4.6367	0.4177	-0.0186	0.0028
5	24	136 T	120	-0.6020	0.2690	-0.0027	0.0013
5	25	142 T	120	-0.6047	0.1609	-0.0024	0.0008
5	26	149 T	120	-0.9921	0.3706	-0.0040	0.0017
5	27	156 T	120	-0.6069	0.2236	-0.0026	0.0008
5	28	163 T	120	-0.4995	0.2468	-0.0025	0.0011
5	29	172 T	120	-0.4281	0.2310	-0.0021	0.0008
5	30	180 T	120	-0.0623	0.0411	-0.0004	0.0002
5	31	187 T	120	0.0149	0.0088	0.0001	0.0000
6	3	326 T	120	-0.1966	0.0249	-0.0013	0.0002

yr	sample date	graph date	trt	depth cm	Ca3179 kg/ha	Ca3179 stderr	Sr4215 kg/ha	Sr4215 stderr
6	4	333	T	120	-0.4511	0.0962	-0.0032	0.0002
6	5	341	T	120	-1.5257	0.8544	-0.0108	0.0053
6	6	348	T	120	-0.6239	0.3362	-0.0047	0.0021
6	7	356	T	120	-2.8107	2.3455	-0.0141	0.0105
6	8	361	T	120	-1.2260	0.5301	-0.0084	0.0033

6	9	369 T	120	-0.8473	0.4337	-0.0059	0.0026
6	10	375 T	120	-0.8736	0.4336	-0.0061	0.0025
6	11	382 T	120	-0.6301	0.3120	-0.0045	0.0016
6	12	389 T	120	-1.5302	0.5983	-0.0102	0.0031
6	13	395 T	120	-1.0803	0.4930	-0.0064	0.0023
6	14	403 T	120	-1.9162	0.8752	-0.0119	0.0044
6	15	410 T	120	-1.1044	0.5031	-0.0066	0.0022
6	16	416 T	120	-0.9144	0.4540	-0.0054	0.0019
6	17	424 T	120	-0.5853	0.2917	-0.0038	0.0012
6	18	431 T	120	-0.1799	0.0857	-0.0012	0.0003
6	19	438 T	120	-0.2885	0.1440	-0.0017	0.0006
6	20	445 T	120	-1.1173	0.5291	-0.0070	0.0023
6	21	452 T	120	-1.7594	0.9451	-0.0105	0.0042
6	22	459 T	120	-0.4425	0.2356	-0.0029	0.0010
6	23	466 T	120	-0.2402	0.1286	-0.0016	0.0005
6	24	473 T	120	-0.2312	0.1331	-0.0015	0.0005
6	25	480 T	120	-0.1999	0.1121	-0.0013	0.0004
6	26	487 T	120	-0.3088	0.1625	-0.0020	0.0007
6	27	494 T	120	-0.3708	0.1834	-0.0023	0.0006
6	28	501 T	120	-0.2291	0.1752	-0.0017	0.0009
6	29	508 T	120	-4.5457	1.6910	-0.0225	0.0059
6	30	515 T	120	-0.6020	0.2093	-0.0036	0.0008
6	31	522 T	120	-0.1071	0.0433	-0.0006	0.0002
6	32	529 T	120	-0.4349	0.1742	-0.0028	0.0006
6	33	536 T	120	-0.7505	0.3507	-0.0053	0.0015
6	34	543 T	120	-0.6727	0.3071	-0.0040	0.0011
6	35	550 T	120	-0.3297	0.1318	-0.0025	0.0008
6	36	557 T	120	-0.1748	0.0859	-0.0011	0.0003
5	4	1 C	200	-0.0444	0.0178	-0.0021	0.0005
5	5	4 C	200	-0.0212	0.0188	-0.0014	0.0009
5	6	10 C	200	-0.0359	0.0087	-0.0009	0.0002
5	7	16 C	200	-0.0466	0.0158	-0.0014	0.0003
5	8	23 C	200	-0.0386	0.0206	-0.0019	0.0002
5	9	30 C	200	-0.0599	0.0041	-0.0018	0.0000
5	10	37 C	200	-0.0697	0.0278	-0.0028	0.0013
5	11	44 C	200	-0.0549	0.0232	-0.0015	0.0004
5	12	52 C	200	-0.0992	0.0312	-0.0021	0.0003
5	13	59 C	200	-0.0448	0.0164	-0.0043	0.0029
5	14	66 C	200	-0.0419	0.0114	-0.0010	0.0003
5	15	73 C	200	-0.0515	0.0116	-0.0014	0.0002
5	16	80 C	200	-0.0768	0.0523	-0.0014	0.0004

yr	sample date	graph date	trt	depth cm	Ca3179 kg/ha	Ca3179 stderr	Sr4215 kg/ha	Sr4215 stderr
5	17	87	C	200	-0.1013	0.0304	-0.0019	0.0004
5	18	94	C	200	-0.0337	0.0136	-0.0008	0.0001
5	19	100	C	200	-0.0182	0.0048	-0.0006	0.0001
5	20	107	C	200	-0.0435	0.0089	-0.0001	0.0001
5	21	115	C	200	-0.0877	0.0354	-0.0002	0.0001

5	22	121 C	200	-0.2304	0.0456	-0.0005	0.0002
5	23	128 C	200	-1.1092	0.3405	-0.0019	0.0007
5	24	136 C	200	-0.2593	0.0524	-0.0005	0.0001
5	25	142 C	200	-0.0879	0.0244	-0.0003	0.0001
5	26	149 C	200	-0.2561	0.0821	-0.0011	0.0003
5	27	156 C	200	-0.1230	0.0377	-0.0006	0.0001
5	28	163 C	200	-0.1110	0.0471	-0.0005	0.0001
5	29	172 C	200	-0.1371	0.0367	-0.0004	0.0001
5	30	180 C	200	-0.0230	0.0086	-0.0004	0.0001
5	31	187 C	200	-0.0265	0.0169	-0.0002	0.0001
5	32	194 C	200	-0.0144	0.0094	-0.0001	0.0001
6	3	326 C	200	-0.0015	0.0003	0.0000	0.0000
6	4	333 C	200	-0.0187	0.0064	-0.0002	0.0001
6	5	341 C	200	-0.1692	0.0552	-0.0015	0.0005
6	6	348 C	200	-0.0735	0.0228	-0.0006	0.0002
6	7	356 C	200	-0.0781	0.0229	-0.0007	0.0002
6	8	361 C	200	-0.3526	0.1159	-0.0034	0.0011
6	9	369 C	200	-0.0809	0.0161	-0.0008	0.0001
6	10	375 C	200	-0.0961	0.0298	-0.0009	0.0003
6	11	382 C	200	-0.0694	0.0226	-0.0007	0.0002
6	12	389 C	200	-0.2005	0.0782	-0.0017	0.0007
6	13	395 C	200	-0.0915	0.0278	-0.0007	0.0002
6	14	403 C	200	-0.1948	0.0736	-0.0017	0.0007
6	15	410 C	200	-0.1159	0.0391	-0.0010	0.0004
6	16	416 C	200	-0.0658	0.0242	-0.0007	0.0002
6	17	424 C	200	-0.1157	0.0227	-0.0011	0.0001
6	18	431 C	200	-0.0416	0.0195	-0.0004	0.0002
6	19	438 C	200	-0.0280	0.0064	-0.0003	0.0000
6	20	445 C	200	-0.1464	0.0706	-0.0014	0.0006
6	21	452 C	200	-0.1369	0.0468	-0.0015	0.0003
6	22	459 C	200	-0.1846	0.1401	-0.0020	0.0012
6	23	466 C	200	-0.0262	0.0083	-0.0005	0.0001
6	24	473 C	200	-0.0212	0.0088	-0.0004	0.0001
6	25	480 C	200	-0.0212	0.0068	-0.0002	0.0001
6	26	487 C	200	-0.0332	0.0147	-0.0002	0.0001
6	27	494 C	200	-0.0505	0.0222	-0.0003	0.0001
6	28	501 C	200	-0.0317	0.0084	-0.0003	0.0001
6	29	508 C	200	-0.3522	0.1187	-0.0024	0.0008
6	30	515 C	200	-0.1050	0.0437	-0.0007	0.0003
6	31	522 C	200	-0.0517	0.0324	-0.0003	0.0002
6	32	529 C	200	-0.0201	0.0084	-0.0002	0.0001

yr	sample date	graph date	trt	depth cm	Ca3179 kg/ha	Ca3179 stderr	Sr4215 kg/ha	Sr4215 stderr
6	33	536	C	200	-0.0552	0.0256	-0.0005	0.0002
6	34	543	C	200	-0.0486	0.0229	-0.0004	0.0002
6	35	550	C	200	-0.0424	0.0189	-0.0004	0.0002
6	36	557	C	200	-0.0468	0.0013	-0.0004	0.0000
5	4	1	T	200	-0.1728	0.0511	-0.0030	0.0012

5	5	4 T	200	-0.0695	0.0168	-0.0020	0.0005
5	6	10 T	200	-0.0890	0.0329	-0.0017	0.0005
5	7	16 T	200	-0.1266	0.0275	-0.0022	0.0006
5	8	23 T	200	-0.1449	0.0413	-0.0030	0.0008
5	9	30 T	200	-0.0905	0.0347	-0.0024	0.0006
5	10	37 T	200	-0.1768	0.0346	-0.0031	0.0007
5	11	44 T	200	-0.1518	0.0117	-0.0028	0.0004
5	12	52 T	200	-0.1073	0.0349	-0.0046	0.0017
5	13	59 T	200	-0.0615	0.0170	-0.0017	0.0002
5	14	66 T	200	-0.0614	0.0131	-0.0011	0.0003
5	15	73 T	200	-0.0664	0.0203	-0.0016	0.0003
5	16	80 T	200	-0.0714	0.0279	-0.0012	0.0005
5	17	87 T	200	-0.1131	0.0369	-0.0021	0.0005
5	18	94 T	200	-0.0329	0.0122	-0.0008	0.0002
5	19	100 T	200	-0.0242	0.0085	-0.0005	0.0001
5	20	107 T	200	-0.0510	0.0118	-0.0002	0.0001
5	21	115 T	200	-0.0808	0.0196	-0.0003	0.0001
5	22	121 T	200	-0.1417	0.0432	-0.0005	0.0002
5	23	128 T	200	-0.8502	0.2152	-0.0034	0.0015
5	24	136 T	200	-0.2154	0.0210	-0.0040	0.0032
5	25	142 T	200	-0.0925	0.0221	-0.0003	0.0001
5	26	149 T	200	-0.3908	0.1933	-0.0011	0.0004
5	27	156 T	200	-0.1189	0.0250	-0.0006	0.0002
5	28	163 T	200	-0.0969	0.0223	-0.0006	0.0001
5	29	172 T	200	-0.1372	0.0273	-0.0008	0.0003
5	30	180 T	200	-0.0266	0.0108	-0.0004	0.0001
5	31	187 T	200	-0.0168	0.0065	-0.0002	0.0001
5	32	194 T	200	-0.0126	0.0050	-0.0001	0.0000
6	3	326 T	200	-0.0010	0.0004	0.0000	0.0000
6	4	333 T	200	-0.0005	0.0003	0.0000	0.0000
6	5	341 T	200	-0.2003	0.1091	-0.0017	0.0009
6	6	348 T	200	-0.0985	0.0385	-0.0011	0.0005
6	7	356 T	200	-2.5199	2.4389	-0.0126	0.0117
6	8	361 T	200	-0.1373	0.0527	-0.0017	0.0007
6	9	369 T	200	-0.0969	0.0353	-0.0012	0.0005
6	10	375 T	200	-0.0863	0.0322	-0.0012	0.0005
6	11	382 T	200	-0.0864	0.0338	-0.0012	0.0005
6	12	389 T	200	-0.1523	0.0514	-0.0017	0.0007
6	13	395 T	200	-0.1184	0.0533	-0.0014	0.0007
6	14	403 T	200	-0.1673	0.0663	-0.0023	0.0011
6	15	410 T	200	-0.1306	0.0505	-0.0017	0.0008

yr	sample date	graph date	trt	depth cm	Ca3179 kg/ha	Ca3179 stderr	Sr4215 kg/ha	Sr4215 stderr
6	16	416	T	200	-0.0693	0.0292	-0.0008	0.0004
6	17	424	T	200	-0.0916	0.0280	-0.0014	0.0005
6	18	431	T	200	-0.0388	0.0157	-0.0005	0.0002
6	19	438	T	200	-0.0274	0.0108	-0.0004	0.0001
6	20	445	T	200	-0.0845	0.0294	-0.0010	0.0004

6	21	452 T	200	-0.1613	0.0615	-0.0021	0.0008
6	22	459 T	200	-0.0773	0.0332	-0.0014	0.0006
6	23	466 T	200	-0.0367	0.0121	-0.0008	0.0002
6	24	473 T	200	-0.0285	0.0116	-0.0005	0.0001
6	25	480 T	200	-0.0236	0.0091	-0.0004	0.0001
6	26	487 T	200	-0.0379	0.0211	-0.0004	0.0002
6	27	494 T	200	-0.0261	0.0093	-0.0004	0.0001
6	28	501 T	200	-0.1106	0.0777	-0.0008	0.0004
6	29	508 T	200	-0.2947	0.1006	-0.0033	0.0013
6	30	515 T	200	-0.0791	0.0295	-0.0009	0.0004
6	31	522 T	200	-0.0340	0.0130	-0.0004	0.0002
6	32	529 T	200	-0.0208	0.0072	-0.0003	0.0001
6	33	536 T	200	-0.0626	0.0298	-0.0008	0.0003
6	34	543 T	200	-0.0495	0.0182	-0.0006	0.0003
6	35	550 T	200	-0.0474	0.0192	-0.0006	0.0003
6	36	557 T	200	-0.0356	0.0156	-0.0004	0.0002

Figure C2. Fluxes of Ca and Sr in soil solution collected using suction cup lysimeters from a Colombian savanna Oxisol which received 0 or 20 t ha⁻¹ of biochar, three years before sampling started. Error bars represent standard errors ($n=3$). Rainfall is shown with bars. Arrows indicate fertilization events, and the shaded area shows the dry season between two cropping periods. Note the different scales on y-axes. *: rainfall data missing for the period shown.

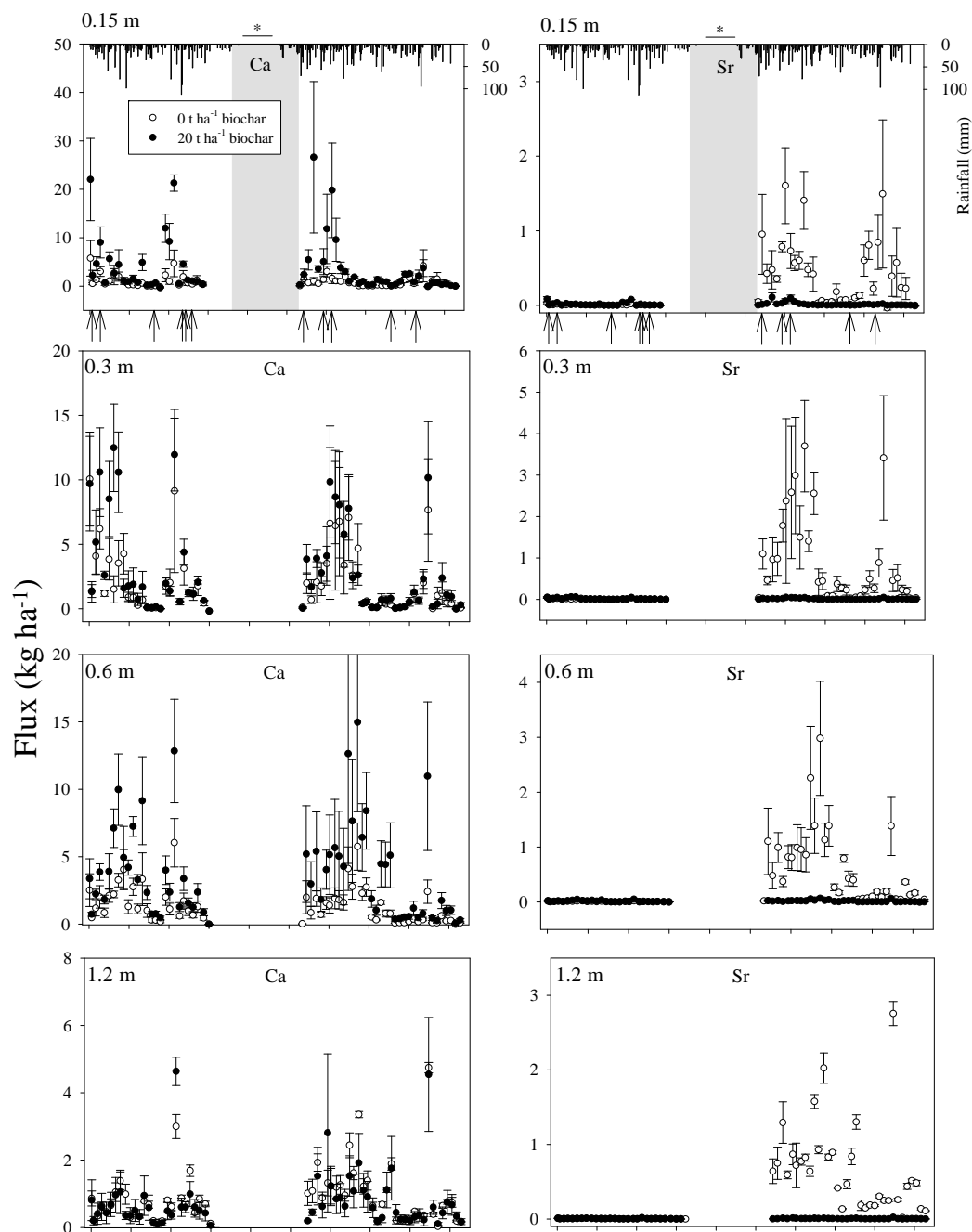


Table C5. Data for Figure C2.

	Ca	kg/ha							
day	C15	err	T15	err	C30	err	T30	err	C60
1	-5.75	3.68	-22.02	8.49	-10.05	3.64	-9.70	3.67	-2.52
4	-0.54	0.23	-2.24	1.03	-1.32	0.80	-1.37	0.50	-0.48
10	-1.31	0.39	-4.63	1.44	-4.09	1.40	-5.16	2.50	-1.18
16	-3.03	1.00	-9.03	3.21	-6.20	1.56	-10.59	3.44	-2.02

23	-0.46	0.28	-0.71	0.08	-1.18	0.21	-2.59	0.32	-0.85
30	-1.07	0.39	-5.63	1.45	-3.84	1.61	-8.51	2.92	-2.11
37	-2.31	2.00	-2.69	0.93	-1.51	1.05	-12.48	3.40	-2.21
44	-1.98	0.93	-4.43	3.10	-3.53	1.75	-10.58	3.12	-3.27
52	-0.92	0.27	-1.10	0.73	-4.26	1.57	-1.59	0.70	-4.05
59	-0.25	0.11	-0.97	0.49	-0.89	0.40	-1.77	1.16	-1.30
66	-0.26	0.11	-1.54	0.74	-0.87	0.33	-1.89	1.27	-2.77
73	-0.13	0.05	-0.75	0.15	-0.26	0.08	-0.73	0.47	-1.13
80	-0.60	0.11	-4.90	1.68	-0.68	0.29	-1.69	1.21	-3.34
87	-0.02	0.01	-0.21	0.06	-0.08	0.01	-0.11	0.04	-1.01
94	-0.02	0.01	-0.27	0.09	-0.05	0.01	-0.08	0.03	-0.30
100	-0.07	0.03	-0.63	0.18	-0.08	0.01	-0.15	0.05	-0.30
107	0.15	0.07	0.35	0.02	0.00	0.00	0.00	0.00	-0.19
115	-2.26	1.34	-11.96	2.92	-1.75	0.63	-1.96	0.45	-2.01
121	-0.97	0.56	-9.22	3.76	-2.03	1.05	-1.38	0.36	-1.12
128	-4.71	2.76	-21.29	1.69	-9.14	6.32	-11.96	2.82	-6.04
136	-0.22	0.13	-0.52	0.09	-0.54	0.25	-0.56	0.03	-0.60
142	-1.93	1.30	-4.55	0.65	-3.13	1.28	-4.39	1.01	-1.72
149	-0.66	0.51	-1.28	0.20	-1.21	0.27	-1.28	0.19	-0.99
156	-0.41	0.24	-1.08	0.32	-1.17	0.51	-1.12	0.07	-0.67
163	-1.24	0.93	-1.00	0.07	-1.78	0.76	-2.06	0.13	-1.30
172	-0.43	0.36	-0.34	0.08	-0.44	0.21	-0.63	0.03	-0.46
320	-0.07	0.04	-0.29	0.21	0.18	0.00	0.19	0.00	0.00
326	-1.50	0.89	-2.39	1.13	-0.11	0.04	-0.03	0.02	-0.03
333	-0.69	0.25	-5.44	2.09	-1.98	0.80	-3.85	1.15	-1.99
341	-1.01	0.80	-26.62	15.63	-0.71	0.29	-1.70	0.54	-0.85
348	-0.54	0.12	-3.56	0.67	-2.05	1.60	-3.90	0.70	-1.90
356	-1.41	0.57	-5.07	2.67	-1.76	0.74	-2.78	0.80	-0.71
361	-3.01	1.09	-11.83	7.15	-3.50	1.35	-4.09	2.26	-1.58
369	-1.59	1.03	-19.81	9.76	-6.62	5.89	-9.84	4.34	-1.40
375	-1.09	0.50	-9.57	4.45	-6.44	4.99	-8.66	3.62	-1.92
382	-0.97	0.36	-3.78	1.19	-6.77	4.19	-8.06	4.12	-1.81
389	-2.00	0.52	-2.99	0.52	-3.39	2.23	-5.78	2.55	-1.61
395	-0.69	0.13	-1.02	0.10	-7.07	3.32	-7.78	2.46	-4.12
403	-0.61	0.24	-1.87	0.16	-2.60	1.03	-2.39	0.37	-2.78
410	-0.05	0.01	-0.52	0.14	-4.68	1.93	-2.61	0.78	-5.76
416	-0.10	0.03	-0.98	0.25	-0.41	0.16	-0.38	0.15	-2.29
424	-0.05	0.03	-0.24	0.10	-0.59	0.14	-0.52	0.22	-2.75
431	-0.05	0.02	-0.30	0.09	-0.11	0.03	-0.09	0.04	-0.52
438	-0.25	0.15	-1.38	0.55	-0.10	0.02	-0.08	0.04	-0.32
445	-0.10	0.02	-0.98	0.35	-0.44	0.07	-0.70	0.46	-1.61
452	-0.11	0.04	-0.90	0.24	-0.37	0.07	-0.67	0.32	-0.79
459	-0.02	0.00	-0.07	0.02	-0.30	0.08	-0.80	0.38	-0.78
466	-0.17	0.09	-0.38	0.17	-0.03	0.01	-0.04	0.01	-0.08
473	-0.26	0.11	-0.99	0.41	-0.07	0.03	-0.10	0.04	-0.10
480	-1.26	0.51	-2.46	0.60	-0.15	0.09	-0.17	0.06	-0.10
487	-1.74	0.81	-2.57	0.37	-0.54	0.33	-0.50	0.08	-0.19

494	-0.53	0.34	-0.86	0.23	-1.18	0.65	-1.30	0.18	-0.37
501	-2.02	1.30	-2.08	0.45	-0.63	0.28	-0.64	0.16	-0.18
508	-4.21	3.32	-3.74	1.74	-2.01	0.86	-2.31	0.73	-0.33
515	0.09	0.08	0.03	0.01	-7.66	3.98	-10.15	4.35	-2.41
522	-1.10	0.93	-0.70	0.39	-0.01	0.01	-0.17	0.07	-0.10
529	-1.49	1.34	-0.76	0.31	-1.01	0.67	-0.37	0.37	-0.09
536	-0.67	0.61	-0.34	0.12	-1.20	0.88	-2.39	1.20	-0.62
543	-0.57	0.46	-0.45	0.05	-0.47	0.32	-1.07	0.41	-0.23
557	0.02	0.01	-0.14	0.00	-0.40	0.25	-0.94	0.47	-0.27

	Ca	kg/ha								
day	T60	err	C120	err	T120	err	C200	err	T200	err
1	-3.37	1.48	-0.86	0.22	-0.81	0.60	-0.04	0.02	-0.17	0.05
4	-0.74	0.15	-0.20	0.02	-0.20	0.12	-0.02	0.02	-0.07	0.02
10	-2.23	0.35	-0.34	0.05	-0.41	0.31	-0.04	0.01	-0.09	0.03
16	-3.86	0.61	-0.64	0.11	-0.61	0.40	-0.05	0.02	-0.13	0.03
23	-1.83	0.33	-0.47	0.05	-0.44	0.32	-0.04	0.02	-0.14	0.04
30	-3.91	1.31	-0.66	0.20	-0.69	0.36	-0.06	0.00	-0.09	0.03
37	-7.12	1.43	-1.05	0.28	-0.97	0.52	-0.07	0.03	-0.18	0.03
44	-9.98	2.65	-1.39	0.26	-1.06	0.64	-0.05	0.02	-0.15	0.01
52	-4.95	2.30	-0.99	0.30	-0.36	0.12	-0.10	0.03	-0.11	0.03
59	-4.20	0.56	-0.30	0.02	-0.35	0.24	-0.04	0.02	-0.06	0.02
66	-7.25	0.73	-0.46	0.04	-0.51	0.33	-0.04	0.01	-0.06	0.01
73	-3.30	0.39	-0.34	0.05	-0.32	0.22	-0.05	0.01	-0.07	0.02
80	-9.15	3.26	-0.79	0.03	-0.95	0.59	-0.08	0.05	-0.07	0.03
87	-2.35	0.52	-0.68	0.10	-0.59	0.37	-0.10	0.03	-0.11	0.04
94	-0.75	0.19	-0.19	0.05	-0.14	0.09	-0.03	0.01	-0.03	0.01
100	-0.77	0.19	-0.14	0.04	-0.10	0.06	-0.02	0.00	-0.02	0.01
107	-0.47	0.13	-0.19	0.06	-0.14	0.08	-0.04	0.01	-0.05	0.01
115	-4.00	1.06	-0.81	0.06	-0.49	0.26	-0.09	0.04	-0.08	0.02
121	-2.37	0.66	-0.62	0.11	-0.37	0.12	-0.23	0.05	-0.14	0.04
128	-12.84	3.83	-3.00	0.36	-4.64	0.42	-1.11	0.34	-0.85	0.22
136	-1.27	0.33	-0.87	0.09	-0.60	0.27	-0.26	0.05	-0.22	0.02
142	-3.38	0.87	-0.72	0.08	-0.60	0.16	-0.09	0.02	-0.09	0.02
149	-1.57	0.37	-1.69	0.17	-0.99	0.37	-0.26	0.08	-0.39	0.19
156	-1.26	0.32	-0.44	0.13	-0.61	0.22	-0.12	0.04	-0.12	0.02
163	-2.37	0.65	-0.85	0.11	-0.50	0.25	-0.11	0.05	-0.10	0.02
172	-0.89	0.26	-0.70	0.08	-0.43	0.23	-0.14	0.04	-0.14	0.03
320	0.00	0.00	-0.12	0.02	-0.06	0.04	-0.02	0.01	-0.03	0.01
326	-5.20	3.59	0.03	0.01	0.01	0.01	-0.03	0.02	-0.02	0.01
333	-2.98	1.65	0.08	0.00	-0.20	0.02	-0.01	0.01	-0.01	0.00
341	-5.40	2.93	-1.01	0.36	-0.45	0.10	0.00	0.00	0.00	0.00
348	-1.83	0.86	-1.08	0.35	-1.53	0.85	-0.02	0.01	0.00	0.00
356	-4.04	1.45	-1.93	0.26	-0.62	0.34	-0.17	0.06	-0.20	0.11
361	-5.15	2.95	-0.88	0.17	-2.81	2.35	-0.07	0.02	-0.10	0.04
369	-5.67	3.59	-1.32	0.38	-1.23	0.53	-0.08	0.02	-2.52	2.44
375	-5.04	3.33	-1.23	0.58	-0.85	0.43	-0.35	0.12	-0.14	0.05

382	-4.27	2.84	-1.19	0.33	-0.87	0.43	-0.08	0.02	-0.10	0.04
389	-12.64	8.13	-1.27	0.28	-0.63	0.31	-0.10	0.03	-0.09	0.03
395	-7.65	4.55	-0.96	0.18	-1.53	0.60	-0.07	0.02	-0.09	0.03
403	-14.98	6.63	-2.44	0.37	-1.08	0.49	-0.20	0.08	-0.15	0.05
410	-6.44	2.50	-1.62	0.20	-1.92	0.88	-0.09	0.03	-0.12	0.05
416	-8.41	2.85	-3.36	0.09	-1.10	0.50	-0.19	0.07	-0.17	0.07
424	-1.87	0.61	-1.22	0.23	-0.91	0.45	-0.12	0.04	-0.13	0.05
431	-1.03	0.37	-1.40	0.28	-0.59	0.29	-0.07	0.02	-0.07	0.03
438	-4.47	1.70	-0.63	0.11	-0.18	0.09	-0.12	0.02	-0.09	0.03
445	-4.43	1.66	-0.20	0.02	-0.29	0.14	-0.04	0.02	-0.04	0.02
452	-5.11	2.42	-0.68	0.07	-1.12	0.53	-0.03	0.01	-0.03	0.01
459	-0.37	0.13	-1.12	0.07	-1.76	0.95	-0.15	0.07	-0.08	0.03
466	-0.40	0.16	-1.89	0.18	-0.44	0.24	-0.14	0.05	-0.16	0.06
473	-0.53	0.20	-0.21	0.10	-0.24	0.13	-0.18	0.14	-0.08	0.03
480	-0.57	0.20	-0.19	0.03	-0.23	0.13	-0.03	0.01	-0.04	0.01
487	-1.19	0.51	-0.25	0.02	-0.20	0.11	-0.02	0.01	-0.03	0.01
494	-0.48	0.16	-0.26	0.02	-0.31	0.16	-0.02	0.01	-0.02	0.01
501	-0.79	0.28	-0.48	0.04	-0.37	0.18	-0.03	0.01	-0.04	0.02
508	-10.97	5.51	-0.35	0.06	-0.23	0.18	-0.05	0.02	-0.03	0.01
515	-0.45	0.17	-0.37	0.05	-4.55	1.69	-0.03	0.01	-0.11	0.08
522	-0.26	0.09	-4.75	0.15	-0.60	0.21	-0.35	0.12	-0.29	0.10
529	-1.75	0.59	-0.39	0.07	-0.11	0.04	-0.10	0.04	-0.08	0.03
536	-1.02	0.37	-0.03	0.01	-0.43	0.17	-0.05	0.03	-0.03	0.01
543	-1.04	0.31	-0.65	0.07	-0.75	0.35	-0.02	0.01	-0.02	0.01
557	-0.07	0.03	-0.76	0.07	-0.67	0.31	-0.06	0.03	-0.06	0.03

	Sr	kg/ha				
day	C15	err	T15	err	C30	err
1	-0.0283	0.0168	-0.0826	0.0335	-0.0428	0.0135
4	-0.0030	0.0012	-0.0092	0.0042	-0.0062	0.0029
10	-0.0065	0.0019	-0.0203	0.0079	-0.0169	0.0059
16	-0.0147	0.0022	-0.0350	0.0133	-0.0251	0.0071
23	-0.0021	0.0009	-0.0029	0.0003	-0.0047	0.0010
30	-0.0060	0.0015	-0.0239	0.0069	-0.0163	0.0059
37	-0.0115	0.0076	-0.0103	0.0025	-0.0059	0.0031
44	-0.0115	0.0034	-0.0162	0.0091	-0.0153	0.0075
52	-0.0065	0.0021	-0.0063	0.0018	-0.0232	0.0124
59	-0.0047	0.0026	-0.0053	0.0008	-0.0044	0.0016
66	-0.0019	0.0004	-0.0060	0.0021	-0.0042	0.0016
73	-0.0015	0.0003	-0.0037	0.0005	-0.0021	0.0006
80	-0.0043	0.0002	-0.0178	0.0038	-0.0035	0.0008
87	-0.0002	0.0000	-0.0007	0.0002	-0.0006	0.0001
94	-0.0002	0.0000	-0.0011	0.0003	-0.0006	0.0004
100	-0.0005	0.0001	-0.0024	0.0007	-0.0010	0.0005
107	0.0006	0.0003	0.0012	0.0001	0.0000	0.0000
115	-0.0095	0.0044	-0.0392	0.0068	-0.0068	0.0024
121	-0.0040	0.0021	-0.0311	0.0109	-0.0090	0.0045

128	-0.0184	0.0082	-0.0772	0.0005	-0.0380	0.0278
136	-0.0007	0.0003	-0.0018	0.0002	-0.0020	0.0011
142	-0.0063	0.0036	-0.0160	0.0015	-0.0114	0.0051
149	-0.0023	0.0016	-0.0051	0.0012	-0.0041	0.0007
156	-0.0016	0.0007	-0.0037	0.0007	-0.0044	0.0018
163	-0.0043	0.0024	-0.0036	0.0002	-0.0058	0.0016
172	-0.0015	0.0009	-0.0012	0.0002	-0.0014	0.0004
320	-0.0471	0.0280	-0.0011	0.0008	0.0006	0.0000
326	-0.9526	0.5353	-0.0118	0.0061	-0.0390	0.0164
333	-0.4252	0.1307	-0.0239	0.0086	-1.0973	0.3635
341	-0.4760	0.2571	-0.1074	0.0599	-0.4596	0.1064
348	-0.3539	0.0453	-0.0165	0.0025	-0.9651	0.5399
356	-0.7846	0.0657	-0.0282	0.0115	-0.9788	0.3980
361	-1.6047	0.5082	-0.0572	0.0333	-1.7819	0.3971
369	-0.7294	0.2348	-0.0945	0.0433	-2.3759	1.9849
375	-0.5688	0.1011	-0.0480	0.0206	-2.5824	1.5966
382	-0.6016	0.1203	-0.0207	0.0061	-2.9882	1.4061
389	-1.4059	0.3857	-0.0164	0.0030	-1.4966	0.7625
395	-0.4774	0.0907	-0.0049	0.0006	-3.6991	1.1044
403	-0.4189	0.2294	-0.0096	0.0002	-1.4053	0.2514
410	-0.0273	0.0096	-0.0025	0.0006	-2.5579	0.5123
416	-0.0609	0.0169	-0.0050	0.0014	-0.4165	0.3196
424	-0.0360	0.0193	-0.0012	0.0004	-0.4429	0.2047
431	-0.0471	0.0127	-0.0017	0.0004	-0.0866	0.0336
438	-0.1811	0.1063	-0.0078	0.0029	-0.0856	0.0488
445	-0.0694	0.0089	-0.0055	0.0015	-0.3729	0.1843
452	-0.0739	0.0005	-0.0052	0.0013	-0.2742	0.0902
459	-0.0122	0.0021	-0.0004	0.0001	-0.2259	0.1215
466	-0.1004	0.0208	-0.0022	0.0009	-0.0254	0.0056
473	-0.1304	0.0356	-0.0055	0.0020	-0.0513	0.0078
480	-0.6016	0.2100	-0.0137	0.0030	-0.0812	0.0278
487	-0.8060	0.1893	-0.0147	0.0015	-0.2305	0.1025
494	-0.2246	0.0883	-0.0053	0.0017	-0.4912	0.2009
501	-0.8439	0.3625	-0.0131	0.0036	-0.2693	0.1036
508	-1.4932	0.9932	-0.0207	0.0087	-0.8853	0.3448
515	0.0356	0.0276	0.0002	0.0000	-3.4148	1.5017
522	-0.3909	0.2698	-0.0036	0.0018	-0.0062	0.0023
529	-0.5721	0.4597	-0.0045	0.0017	-0.4562	0.2678
536	-0.2376	0.1922	-0.0021	0.0007	-0.5165	0.3215
543	-0.2266	0.1493	-0.0022	0.0006	-0.2296	0.1127
557	0.0085	0.0041	-0.0008	0.0000	-0.1982	0.0911

	Sr	kg/ha				
day	T30	err	C60	err	T60	err
1	-0.0486	0.0162	-0.0155	0.0043	-0.0214	0.0089
4	-0.0069	0.0027	-0.0029	0.0000	-0.0047	0.0008
10	-0.0224	0.0101	-0.0067	0.0016	-0.0117	0.0022

16	-0.0470	0.0152	-0.0110	0.0024	-0.0188	0.0041
23	-0.0116	0.0023	-0.0046	0.0009	-0.0083	0.0018
30	-0.0436	0.0160	-0.0104	0.0013	-0.0208	0.0051
37	-0.0590	0.0181	-0.0115	0.0008	-0.0301	0.0064
44	-0.0581	0.0267	-0.0166	0.0024	-0.0448	0.0111
52	-0.0072	0.0028	-0.0230	0.0085	-0.0197	0.0091
59	-0.0117	0.0082	-0.0066	0.0022	-0.0177	0.0033
66	-0.0117	0.0082	-0.0117	0.0028	-0.0289	0.0050
73	-0.0053	0.0033	-0.0054	0.0016	-0.0143	0.0024
80	-0.0101	0.0075	-0.0140	0.0077	-0.0351	0.0154
87	-0.0007	0.0002	-0.0040	0.0019	-0.0087	0.0021
94	-0.0006	0.0002	-0.0013	0.0006	-0.0030	0.0008
100	-0.0009	0.0002	-0.0013	0.0005	-0.0030	0.0008
107	0.0000	0.0000	-0.0007	0.0003	-0.0017	0.0005
115	-0.0076	0.0018	-0.0067	0.0021	-0.0147	0.0045
121	-0.0051	0.0015	-0.0042	0.0015	-0.0089	0.0030
128	-0.0446	0.0073	-0.0204	0.0059	-0.0494	0.0166
136	-0.0021	0.0002	-0.0021	0.0006	-0.0048	0.0013
142	-0.0156	0.0039	-0.0058	0.0019	-0.0121	0.0034
149	-0.0048	0.0007	-0.0040	0.0014	-0.0059	0.0017
156	-0.0040	0.0003	-0.0024	0.0006	-0.0048	0.0012
163	-0.0078	0.0002	-0.0050	0.0015	-0.0090	0.0023
172	-0.0028	0.0005	-0.0018	0.0006	-0.0040	0.0008
320	0.0008	0.0000	0.0000	0.0000	0.0000	0.0000
326	-0.0001	0.0001	-0.0192	0.0067	-0.0240	0.0142
333	-0.0229	0.0083	-1.1032	0.6045	-0.0136	0.0063
341	-0.0100	0.0041	-0.4793	0.2384	-0.0234	0.0103
348	-0.0208	0.0067	-0.9919	0.2703	-0.0085	0.0032
356	-0.0135	0.0034	-0.3733	0.0923	-0.0188	0.0059
361	-0.0209	0.0098	-0.8171	0.2085	-0.0222	0.0107
369	-0.0480	0.0207	-0.8096	0.2345	-0.0237	0.0134
375	-0.0415	0.0170	-0.9890	0.4163	-0.0212	0.0130
382	-0.0402	0.0206	-0.9556	0.3960	-0.0184	0.0111
389	-0.0299	0.0127	-0.8585	0.3112	-0.0529	0.0310
395	-0.0432	0.0143	-2.2581	0.9371	-0.0328	0.0177
403	-0.0128	0.0028	-1.3882	0.5040	-0.0664	0.0274
410	-0.0136	0.0043	-2.9798	1.0382	-0.0293	0.0105
416	-0.0018	0.0009	-1.1310	0.3045	-0.0403	0.0133
424	-0.0025	0.0013	-1.3865	0.3704	-0.0093	0.0030
431	-0.0005	0.0003	-0.2670	0.0620	-0.0053	0.0018
438	-0.0005	0.0002	-0.1686	0.0370	-0.0217	0.0075
445	-0.0036	0.0025	-0.7915	0.0690	-0.0235	0.0090
452	-0.0033	0.0016	-0.4271	0.1338	-0.0276	0.0124
459	-0.0039	0.0017	-0.4007	0.1159	-0.0020	0.0006
466	-0.0003	0.0001	-0.0485	0.0036	-0.0022	0.0008
473	-0.0006	0.0002	-0.0627	0.0063	-0.0031	0.0011
480	-0.0010	0.0003	-0.0699	0.0075	-0.0032	0.0010

487	-0.0026	0.0002	-0.1000	0.0183	-0.0070	0.0030
494	-0.0068	0.0006	-0.1883	0.0271	-0.0026	0.0008
501	-0.0032	0.0004	-0.0914	0.0322	-0.0044	0.0013
508	-0.0118	0.0024	-0.1900	0.0439	-0.0616	0.0333
515	-0.0471	0.0192	-1.3839	0.5369	-0.0023	0.0009
522	-0.0008	0.0003	-0.0549	0.0231	-0.0015	0.0007
529	-0.0017	0.0017	-0.0443	0.0044	-0.0097	0.0030
536	-0.0120	0.0057	-0.3640	0.0363	-0.0052	0.0015
543	-0.0056	0.0018	-0.1294	0.0150	-0.0052	0.0011
557	-0.0049	0.0022	-0.1640	0.0353	-0.0004	0.0001

	Sr	kg/ha				
day	C120	err	T120	err	C200	err
1	-0.0090	0.0029	-0.0093	0.0041	-0.0021	0.0005
4	-0.0023	0.0002	-0.0030	0.0010	-0.0014	0.0009
10	-0.0034	0.0003	-0.0043	0.0026	-0.0009	0.0002
16	-0.0061	0.0017	-0.0056	0.0026	-0.0014	0.0003
23	-0.0049	0.0011	-0.0041	0.0021	-0.0019	0.0002
30	-0.0064	0.0020	-0.0063	0.0026	-0.0018	0.0000
37	-0.0074	0.0018	-0.0076	0.0035	-0.0028	0.0013
44	-0.0101	0.0029	-0.0092	0.0046	-0.0015	0.0004
52	-0.0087	0.0019	-0.0059	0.0018	-0.0021	0.0003
59	-0.0033	0.0006	-0.0048	0.0011	-0.0043	0.0029
66	-0.0043	0.0005	-0.0043	0.0021	-0.0010	0.0003
73	-0.0033	0.0003	-0.0031	0.0014	-0.0014	0.0002
80	-0.0052	0.0004	-0.0067	0.0039	-0.0014	0.0004
87	-0.0050	0.0011	-0.0044	0.0019	-0.0019	0.0004
94	-0.0016	0.0005	-0.0012	0.0005	-0.0008	0.0001
100	-0.0011	0.0004	-0.0008	0.0004	-0.0006	0.0001
107	-0.0011	0.0004	-0.0007	0.0004	-0.0001	0.0001
115	-0.0032	0.0006	-0.0023	0.0014	-0.0002	0.0001
121	-0.0024	0.0002	-0.0015	0.0007	-0.0005	0.0002
128	-0.0114	0.0024	-0.0186	0.0028	-0.0019	0.0007
136	-0.0035	0.0005	-0.0027	0.0013	-0.0005	0.0001
142	-0.0032	0.0006	-0.0024	0.0008	-0.0003	0.0001
149	-0.0075	0.0010	-0.0040	0.0017	-0.0011	0.0003
156	-0.0024	0.0008	-0.0026	0.0008	-0.0006	0.0001
163	-0.0042	0.0005	-0.0025	0.0011	-0.0005	0.0001
172	-0.0035	0.0004	-0.0021	0.0008	-0.0004	0.0001
320	-0.0007	0.0001	-0.0004	0.0002	-0.0004	0.0001
326	0.0002	0.0000	0.0001	0.0000	-0.0002	0.0001
333	0.0003	0.0000	-0.0013	0.0002	-0.0001	0.0001
341	-0.6410	0.1651	-0.0032	0.0002	-0.0008	0.0003
348	-0.7478	0.2167	-0.0108	0.0053	-0.0169	0.0054
356	-1.2928	0.2786	-0.0047	0.0021	-0.1539	0.0466
361	-0.5915	0.0537	-0.0141	0.0105	-0.0640	0.0205
369	-0.8674	0.1384	-0.0084	0.0033	-0.0749	0.0249

375	-0.7182	0.2997	-0.0059	0.0026	-0.3360	0.1098
382	-0.7717	0.0482	-0.0061	0.0025	-0.0811	0.0128
389	-0.8237	0.0466	-0.0045	0.0016	-0.0908	0.0324
395	-0.6395	0.0695	-0.0102	0.0031	-0.0667	0.0198
403	-1.5759	0.0936	-0.0064	0.0023	-0.1671	0.0653
410	-0.9296	0.0540	-0.0119	0.0044	-0.0738	0.0246
416	-2.0241	0.2034	-0.0066	0.0022	-0.1687	0.0679
424	-0.8304	0.0391	-0.0054	0.0019	-0.0989	0.0356
431	-0.8918	0.0217	-0.0038	0.0012	-0.0741	0.0232
438	-0.4147	0.0073	-0.0012	0.0003	-0.1148	0.0119
445	-0.1349	0.0082	-0.0017	0.0006	-0.0393	0.0171
452	-0.4667	0.0604	-0.0070	0.0023	-0.0289	0.0044
459	-0.8386	0.1103	-0.0105	0.0042	-0.1390	0.0598
466	-1.3011	0.0971	-0.0029	0.0010	-0.1477	0.0349
473	-0.1842	0.0701	-0.0016	0.0005	-0.2037	0.1191
480	-0.1470	0.0080	-0.0015	0.0005	-0.0487	0.0075
487	-0.1859	0.0215	-0.0013	0.0004	-0.0372	0.0068
494	-0.1786	0.0117	-0.0020	0.0007	-0.0213	0.0055
501	-0.3036	0.0195	-0.0023	0.0006	-0.0207	0.0061
508	-0.2475	0.0208	-0.0017	0.0009	-0.0286	0.0079
515	-0.2464	0.0150	-0.0225	0.0059	-0.0287	0.0060
522	-2.7543	0.1620	-0.0036	0.0008	-0.2360	0.0771
529	-0.2584	0.0228	-0.0006	0.0002	-0.0706	0.0287
536	-0.0199	0.0022	-0.0028	0.0006	-0.0309	0.0155
543	-0.4368	0.0398	-0.0053	0.0015	-0.0152	0.0057
557	-0.5131	0.0218	-0.0040	0.0011	-0.0495	0.0179

	Sr	kg/ha
day	T200	err
1	-0.0030	0.0012
4	-0.0020	0.0005
10	-0.0017	0.0005
16	-0.0022	0.0006
23	-0.0030	0.0008
30	-0.0024	0.0006
37	-0.0031	0.0007
44	-0.0028	0.0004
52	-0.0046	0.0017
59	-0.0017	0.0002
66	-0.0011	0.0003
73	-0.0016	0.0003
80	-0.0012	0.0005
87	-0.0021	0.0005
94	-0.0008	0.0002
100	-0.0005	0.0001
107	-0.0002	0.0001
115	-0.0003	0.0001

121	-0.0005	0.0002
128	-0.0034	0.0015
136	-0.0040	0.0032
142	-0.0003	0.0001
149	-0.0011	0.0004
156	-0.0006	0.0002
163	-0.0006	0.0001
172	-0.0008	0.0003
320	-0.0004	0.0001
326	-0.0002	0.0001
333	-0.0001	0.0000
341	0.0000	0.0000
348	0.0000	0.0000
356	-0.0017	0.0009
361	-0.0011	0.0005
369	-0.0126	0.0117
375	-0.0017	0.0007
382	-0.0012	0.0005
389	-0.0012	0.0005
395	-0.0012	0.0005
403	-0.0017	0.0007
410	-0.0014	0.0007
416	-0.0023	0.0011
424	-0.0017	0.0008
431	-0.0008	0.0004
438	-0.0014	0.0005
445	-0.0005	0.0002
452	-0.0004	0.0001
459	-0.0010	0.0004
466	-0.0021	0.0008
473	-0.0014	0.0006
480	-0.0008	0.0002
487	-0.0005	0.0001
494	-0.0004	0.0001
501	-0.0004	0.0002
508	-0.0004	0.0001
515	-0.0008	0.0004
522	-0.0033	0.0013
529	-0.0009	0.0004
536	-0.0004	0.0002
543	-0.0003	0.0001
557	-0.0008	0.0003

Table C6. Soil density data

	rep	trt	depth	subs	ring+lid (g)	dry soil+ring+lid (g)	dry soil (g)	density (g/cm ³)
EXPT. 1	1	T	0-5	A	75.2	190.5	115.3	1.17
	1	T	0-5	B	73.0	190.7	117.7	1.20
	1	T	15	A	72.0	186.3	114.3	1.16
	1	T	15	B	74.9	179.3	104.4	1.06
	1	T	30	A	76.1	213.5	137.4	1.40
	1	T	30	B	72.6	213.7	141.1	1.44
	1	C	0-5	A	74.4	193.4	119.0	1.21
	1	C	0-5	B	72.2	191.4	119.2	1.21
	1	C	15	A	71.9	185.8	113.9	1.16
	1	C	15	B	75.2	204.0	128.8	1.31
	1	C	30	A	72.7	216.1	143.4	1.46
	1	C	30	B	78.1	219.7	141.6	1.44
	2	T	0-5	A	71.6	184.3	112.7	1.15
	2	T	0-5	B	79.1	212.8	133.7	1.36
	2	T	15	A	72.8	187.8	115.0	1.17
	2	T	15	B	74.3	191.3	117.0	1.19
	2	T	30	A	72.3	204.1	131.8	1.34
	2	T	30	B	78.8	209.1	130.3	1.33
	2	C	0-5	A	72.3	192.4	120.1	1.22
	2	C	0-5	B	77.7	198.3	120.6	1.23
	2	C	15	A	75.1	191.5	116.4	1.19
	2	C	15	B	73.5	191.9	118.4	1.21
	2	C	30	A	76.0	202.7	126.7	1.29
	2	C	30	B	72.5	211.9	139.4	1.42
	3	T	0-5	A	71.4	186.4	115.0	1.17
	3	T	0-5	B	80.4	203.2	122.8	1.25
	3	T	15	A	104.2	209.0	104.8	1.07
	3	T	15	B	88.9	189.6	100.7	1.03
	3	T	30	A	74.9	182.2	107.3	1.09
	3	T	30	B	71.8	203.2	131.4	1.34
	3	C	0-5	A	94.3	210.5	116.2	1.18
	3	C	0-5	B	75.3	206.1	130.8	1.33
	3	C	15	A	98.1	216.9	118.8	1.21
	3	C	15	B	72.6	191.4	118.8	1.21
	3	C	30	A	76.6	217.9	141.3	1.44
	3	C	30	B	82.0	194.5	112.5	1.15
	1		60	1	76.2	203.7	127.5	1.30
	1		60	2	74.1	216.2	142.1	1.45
	1		60	3	74.7	193.1	118.4	1.21
	1		60	4	77.0	200.0	123.0	1.25
	1		120	1	73.9	192.7	118.8	1.21

	1	120	2	79.5	208.1	128.6	1.31
	2	120	3	73.5	200.8	127.3	1.30
	2	120	4	73.9	195.1	121.2	1.23
	2	200	1	74.9	189.3	114.4	1.17
	2	200	2	75.9	192.2	116.3	1.18
	2	200	3	78.0	217.4	139.4	1.42
	2	200	4	73.6	212.5	138.9	1.41

Table C7. Data for Fig. 4.1.

depth	g/cm ³		err T	err C
	T	C		
2.5	1.2175537	1.2323232	0.0199631	0.0133338
15	1.1139971	1.2139886	0.0389606	0.0117776
30	1.3229777	1.3664375	0.0588151	0.0462113
60	1.3012478	0.0522675	0.0522675	
120	1.262796	0.0240553	0.0240553	
200	1.2961548	0.070101	0.070101	

Table C8. Infiltration data

Disk infiltrometer, first date, 16 May 06

1-T btw rows 1 and 2

	Time (s)	sqrt (t)	Volume (mL)	infiltr (cm)
suction	0	0.00	77	0
2 cm	10	3.16	72	0.322581
	20	4.47	71.5	0.354839
moisture	30	5.48	71	0.387097
%	40	6.32	70	0.451613
30.5	60	7.75	69	0.516129
	80	8.94	68	0.580645
	100	10.00	67	0.645161
	120	10.95	66	0.709677
	140	11.83	65.5	0.741935
	160	12.65	65	0.774194
	180	13.42	64	0.83871
	200	14.14	63	0.903226
	220	14.83	63	0.903226
	240	15.49	62	0.967742
	260	16.12	61	1.032258
	280	16.73	60	1.096774

1-C btw rows 1 and 2

	Time (s)	sqrt (t)	Volume (mL)	infiltr (cm)
suction	0	0.00	77	0
2 cm	10	3.16	68	0.580645
	20	4.47	63.5	0.870968
	40	6.32	60	1.096774
moisture	60	7.75	56.5	1.322581
28.5	80	8.94	54	1.483871
	100	10.00	51	1.677419
	120	10.95	48	1.870968
	140	11.83	45	2.064516
	160	12.65	43	2.193548
	180	13.42	41	2.322581
	200	14.14	38	2.516129
	220	14.83	36	2.645161
	240	15.49	33.5	2.806452
	260	16.12	31	2.967742

2-T btw rows 1 and 2

	Time (s)	sqrt (t)	Volume (mL)	infiltr (cm)
suction	0	0.00	80.5	0
2 cm	10	3.16	76	0.290323
	20	4.47	73	0.483871
	40	6.32	70	0.677419
moisture	60	7.75	68	0.806452
27.4	80	8.94	66	0.935484
21.8	100	10.00	64	1.064516
26.7	120	10.95	62.5	1.16129
	140	11.83	61	1.258065
25.3	160	12.65	59.5	1.354839
	180	13.42	58	1.451613
	200	14.14	56.5	1.548387
	220	14.83	55	1.645161
	240	15.49	54	1.709677
	260	16.12	52.5	1.806452

2-C btw rows 1 and 2

	Time (s)	sqrt (t)	Volume (mL)	infiltr (cm)
suction	0	0.00	82	0
2 cm	10	3.16	77	0.322581
	20	4.47	74.5	0.483871
	40	6.32	71	0.709677
moisture	60	7.75	67.5	0.935484
24.5	80	8.94	65	1.096774
27.8	100	10.00	61.5	1.322581
24.6	120	10.95	59	1.483871
	140	11.83	56	1.677419
25.6	160	12.65	54	1.806452
	180	13.42	51.5	1.967742
	200	14.14	49	2.129032
	220	14.83	46.5	2.290323
	240	15.49	44	2.451613
	260	16.12	42	2.580645

3-T btw rows 1 and 2

	Time (s)	sqrt (t)	Volume (mL)	infiltr (cm)
suction	0	0.00	88	0
2 cm	10	3.16	80	0.516129
	20	4.47	77	0.709677
	40	6.32	71	1.096774
moisture	60	7.75	67	1.354839

28.3	80	8.94	63	1.612903
25	100	10.00	59	1.870968
24.6	120	10.95	56	2.064516
	140	11.83	53	2.258065
26.0	160	12.65	50	2.451613
	180	13.42	47	2.645161
	200	14.14	44	2.83871
	220	14.83	41	3.032258
	240	15.49	38	3.225806
	260	16.12	35	3.419355

btw rows 5 and 6

Time (s)	sqrt (t)	3-C	infiltr (cm)
0	0.00	81.0	0
10	3.16	76.0	0.322581
20	4.47	74.0	0.451613
40	6.32	71.0	0.645161
60	7.75	68.0	0.83871
80	8.94	65.5	1
100	10.00	63.0	1.16129
120	10.95	60.5	1.322581
140	11.83	58.0	1.483871
160	12.65	56.0	1.612903
180	13.42	54.5	1.709677
200	14.14	52.5	1.83871
220	14.83	50.0	2
240	15.49	48.5	2.096774
260	16.12	47.0	2.193548
280	16.73		

btw rows 5 and 6

Time (s)	sqrt (t)	1-T	infiltr (cm)
0	0.00	91.0	0
10	3.16	86.5	0.290323
20	4.47	85.0	0.387097
40	6.32	82.5	0.548387
60	7.75	80.0	0.709677
80	8.94	78.5	0.806452
100	10.00	77.0	0.903226
120	10.95	75.0	1.032258
140	11.83	74.0	1.096774
160	12.65	72.5	1.193548

180	13.42	71.0	1.290323
200	14.14	70.0	1.354839
220	14.83	69.0	1.419355
240	15.49	67.5	1.516129
260	16.12	66.0	1.612903
280	16.73		

btw rows 5 and 6

	Time (s)	sqrt (t)	1-C	infiltr (cm)
25.4	0	0.00	89.0	0
30.2	10	3.16	85.0	0.258065
26.4	20	4.47	83.5	0.354839
	40	6.32	81.0	0.516129
27.33333	60	7.75	79.0	0.645161
	80	8.94	77.5	0.741935
	100	10.00	75.5	0.870968
	120	10.95	74.0	0.967742
	140	11.83	72.5	1.064516
	160	12.65	71.5	1.129032
	180	13.42	70.0	1.225806
	200	14.14	69.0	1.290323
	220	14.83	67.5	1.387097
	240	15.49	66.0	1.483871
	260	16.12	65.0	1.548387
	280	16.73	64.0	1.612903

btw rows 5 and 6

	Time (s)	sqrt (t)	2-T	infiltr (cm)
26.9	0	0.00	89.0	0
37.3	10	3.16	83.0	0.387097
29.7	20	4.47	80.5	0.548387
30.9	40	6.32	76.0	0.83871
26.9	60	7.75	72.5	1.064516
37.3	80	8.94	69.0	1.290323
29.7	100	10.00	66.0	1.483871
30.9	120	10.95	63.0	1.677419
31.2	140	11.83	60.5	1.83871
	160	12.65	57.5	2.032258
	180	13.42	55.0	2.193548
	200	14.14	52.5	2.354839
	220	14.83	50.0	2.516129
	240	15.49	48.0	2.645161
	260	16.12	45.5	2.806452
	280	16.73	43.5	2.935484

btw rows 5 and 6

Time (s)	sqrt (t)	2-C	infiltr (cm)
	0	88.5	0
30.4	10	81.5	0.451613
24.5	20	80.0	0.548387
28.2	40	77.0	0.741935
	60	75.0	0.870968
27.7	80	73.0	1
	100	71.0	1.129032
	120	69.0	1.258065
	140	67.5	1.354839
	160	66.0	1.451613
	180	64.0	1.580645
	200	62.5	1.677419
	220	61.0	1.774194
	240	59.5	1.870968
	260	58.0	1.967742
	280	56.5	2.064516

btw rows 5 and 6

Time (s)	sqrt (t)	3-T	infiltr (cm)
	0	89.0	0
29.4	10	87.0	0.129032
32.0	20	86.5	0.16129
24.0	40	85.0	0.258065
28.1	60	84.5	0.290323
28.4	80	83.5	0.354839
	100	83.0	0.387097
	120	82.0	0.451613
	140	81.5	0.483871
	160	81.0	0.516129
	180	80.5	0.548387
	200	80.0	0.580645
	220	79.5	0.612903
	240	79.0	0.645161
	260	78.5	0.677419
	280	78.0	0.709677

btw rows 5 and 6

Time (s)	sqrt (t)	3-C	infiltr (cm)
	0	88.5	0
25.5	10	83.0	0.354839
22.5	20	80.5	0.516129
24.9	40	77.0	0.741935

24.3	60	7.75	73.5	0.967742
	80	8.94	70.5	1.16129
	100	10.00	68.0	1.322581
	120	10.95	65.5	1.483871
	140	11.83	63.5	1.612903
	160	12.65	61.0	1.774194
	180	13.42	59.0	1.903226
	200	14.14	56.0	2.096774
	220	14.83	54.5	2.193548
	240	15.49	52.5	2.322581
	260	16.12	50.0	2.483871
	280	16.73	48.0	2.612903

btw rows 5 and 6 take 2

	Time (s)	sqrt (t)	1-T	
				infiltr (cm)
	0	0.00	90.0	0
	10	3.16	87.5	0.16129
31.5	20	4.47	87.0	0.193548
29.4	40	6.32	86.0	0.258065
30.7	60	7.75	85.0	0.322581
	80	8.94	84.0	0.387097
30.5	100	10.00	83.5	0.419355
	120	10.95	83.0	0.451613
	140	11.83	82.5	0.483871
	160	12.65	82.0	0.516129
	180	13.42	81.0	0.580645
	200	14.14	80.5	0.612903
	220	14.83	80.0	0.645161
	240	15.49	79.5	0.677419
	260	16.12	79.0	0.709677
	280	16.73	78.5	0.741935

btw rows 5 and 6 take 2

	Time (s)	sqrt (t)	1-C	
				infiltr (cm)
	0	0.00	88.5	0
29.30	10	3.16	83.0	0.354839
28.20	20	4.47	80.0	0.548387
26.80	40	6.32	77.0	0.741935
	60	7.75	74.5	0.903226
28.1	80	8.94	72.5	1.032258
	100	10.00	70.5	1.16129
	120	10.95	69.0	1.258065
	140	11.83	67.0	1.387097
	160	12.65	60.5	
	180	13.42	63.5	1.612903

200	14.14	62.0	1.709677
220	14.83	60.0	1.83871
240	15.49	59.0	1.903226
260	16.12	58.0	1.967742
280	16.73	56.5	2.064516

btw rows 5 and 6 take 2

	Time (s)	sqrt (t)	2-T	infiltr (cm)
	0	0.00	89.0	0
32.0	10	3.16	86.0	0.193548
29.3	20	4.47	85.0	0.258065
26.3	40	6.32	84.0	0.322581
	60	7.75	83.0	0.387097
29.2	80	8.94	82.0	0.451613
	100	10.00	81.5	0.483871
	120	10.95	80.5	0.548387
	140	11.83	80.0	0.580645
	160	12.65	79.5	0.612903
	180	13.42	79.0	0.645161
	200	14.14	78.5	0.677419
	220	14.83	78.0	0.709677
	240	15.49	77.5	0.741935
	260	16.12	77.0	0.774194
	280	16.73	76.0	0.83871

btw rows 5 and 6 take 2

	Time (s)	sqrt (t)	2-C	infiltr (cm)
	0	0.00	88.0	0
27.2	10	3.16	84.0	0.258065
30.6	20	4.47	83.0	0.322581
25.4	40	6.32	81.5	0.419355
	60	7.75	80.0	0.516129
27.7	80	8.94	78.5	0.612903
	100	10.00	77.5	0.677419
	120	10.95	76.5	0.741935
	140	11.83	75.5	0.806452
	160	12.65	74.5	0.870968
	180	13.42	73.5	0.935484
	200	14.14	72.5	1
	220	14.83	71.5	1.064516
	240	15.49	70.5	1.129032
	260	16.12	69.5	1.193548
	280	16.73	68.5	1.258065

btw rows 5 and 6 take 2

	Time (s)	sqrt (t)	3-T	infiltr (cm)
	0	0.00	88.0	0
30.2	10	3.16	82.0	0.387097
27.2	20	4.47	80.5	0.483871
24.7	40	6.32	78.5	0.612903
	60	7.75	77.0	0.709677
27.4	80	8.94	75.0	0.83871
	100	10.00	73.5	0.935484
	120	10.95	72.0	1.032258
	140	11.83	71.0	1.096774
	160	12.65	70.0	1.16129
	180	13.42	69.0	1.225806
	200	14.14	67.5	1.322581
	220	14.83	66.5	1.387097
	240	15.49	65.5	1.451613
	260	16.12	64.5	1.516129
	280	16.73	63.5	1.580645

btw rows 5 and 6 take 2

	Time (s)	sqrt (t)	3-C	infiltr (cm)
	0	0.00	88.0	0
	10	3.16	82.5	0.354839
24.7	20	4.47	80.0	0.516129
27.8	40	6.32		
22.4	60	7.75	73.0	0.967742
	80	8.94	71.0	1.096774
25.0	100	10.00	68.0	1.290323
	120	10.95	66.0	1.419355
	140	11.83	64.0	1.548387
	160	12.65	63.0	1.612903
	180	13.42	60.0	1.806452
	200	14.14	58.0	1.935484
	220	14.83	56.0	2.064516
	240	15.49	54.0	2.193548
	260	16.12	52.0	2.322581
	280	16.73	50.5	2.419355

btw rows 2 and 3

	Time (s)	sqrt (t)	1-T	infiltr (cm)
	0	0.00	85.0	0
	10	3.16	81.0	0.258065
31.5	20	4.47	79.5	0.354839
31.2	40	6.32	77.5	0.483871

26.7	60	7.75	76.0	0.580645
	80	8.94	74.5	0.677419
29.8	100	10.00	73.0	0.774194
	120	10.95	72.0	0.83871
	140	11.83	71.0	0.903226
	160	12.65	69.5	1
	180	13.42	68.0	1.096774
	200	14.14	67.0	1.16129
	220	14.83	66.0	1.225806
	240	15.49	64.5	1.322581
	260	16.12	63.5	1.387097
	280	16.73	62.5	1.451613

btw rows 2 and 3

	Time (s)	sqrt (t)	1-C	infiltr (cm)
	0	0.00	88.5	0
28.40	10	3.16	86.0	0.16129
27.30	20	4.47	85.0	0.225806
29.80	40	6.32	84.0	0.290323
	60	7.75	83.0	0.354839
28.5	80	8.94	82.0	0.419355
	100	10.00	81.0	0.483871
	120	10.95	80.0	0.548387
	140	11.83	79.5	0.580645
	160	12.65	79.0	0.612903
	180	13.42	78.0	0.677419
	200	14.14	77.5	0.709677
	220	14.83	77.0	0.741935
	240	15.49	76.0	0.806452
	260	16.12	75.5	0.83871
	280	16.73	75.0	0.870968

btw rows 2 and 3

	Time (s)	sqrt (t)	2-T	infiltr (cm)
	0	0.00	87.0	0
31.7	10	3.16	82.0	0.322581
28.6	20	4.47	80.0	0.451613
28.6	40	6.32	75.5	0.741935
	60	7.75	72.0	0.967742
29.6	80	8.94	69.5	1.129032
	100	10.00	66.0	1.354839
	120	10.95	63.5	1.516129
	140	11.83	61.0	1.677419
	160	12.65	58.0	1.870968

180	13.42	56.0	2
200	14.14	54.0	2.129032
220	14.83	51.5	2.290323
240	15.49	49.5	2.419355
260	16.12	47.0	2.580645
280	16.73	45.0	2.709677

btw rows 2 and 3

	Time (s)	sqrt (t)	2-C	infiltr (cm)
	0	0.00	86.5	0
27.3	10	3.16	80.0	0.419355
27.8	20	4.47	77.5	0.580645
30.7	40	6.32	74.0	0.806452
	60	7.75	71.0	1
28.6	80	8.94	68.0	1.193548
	100	10.00	66.0	1.322581
	120	10.95	63.5	1.483871
	140	11.83	60.5	1.677419
	160	12.65	58.0	1.83871
	180	13.42	56.0	1.967742
	200	14.14	54.0	2.096774
	220	14.83	52.0	2.225806
	240	15.49	50.0	2.354839
	260	16.12	48.0	2.483871
	280	16.73	46.0	2.612903

btw rows 2 and 3

	Time (s)	sqrt (t)	3-T	infiltr (cm)
	0	0.00	81.0	0
29.7	10	3.16	74.5	0.419355
26.9	20	4.47	72.0	0.580645
29.6	40	6.32	68.0	0.83871
	60	7.75	65.0	1.032258
28.7	80	8.94	62.0	1.225806
	100	10.00	59.0	1.419355
	120	10.95	56.5	1.580645
	140	11.83	54.5	1.709677
	160	12.65	52.0	1.870968
	180	13.42	49.5	2.032258
	200	14.14	47.5	2.16129
	220	14.83	45.5	2.290323
	240	15.49	43.5	2.419355
	260	16.12	41.5	2.548387
	280	16.73	40.0	2.645161

btw rows 2 and 3

	Time (s)	sqrt (t)	3-C	infiltr (cm)
	0	0.00	88.0	0
30.5	10	3.16		
29.6	20	4.47	81.0	0.451613
29.5	40	6.32	79.0	0.580645
	60	7.75	77.0	0.709677
29.9	80	8.94	75.0	0.83871
	100	10.00	74.0	0.903226
	120	10.95	72.0	1.032258
	140	11.83	71.0	1.096774
	160	12.65	70.0	1.16129
	180	13.42	69.0	1.225806
	200	14.14	68.0	1.290323
	220	14.83	67.0	1.354839
	240	15.49	66.0	1.419355
	260	16.12	65.0	1.483871
	280	16.73	64.0	1.548387

Disk infiltrometer, second date, 21 Sep. 2006. Data shown is volume remaining in ml.

sec	1-T				1-C			
	entre surco 1 y 2		entre 2 ultimos surcos		entre surco 1 y 2		entre 2 ultimos surcos	
	1	2	1	2	1	2	1	2
0	87	85	88	91	81	87.5	86	89.5
10	83.5	82	82.5	89	77.5	85	84.5	87
20	81.5	81.7	80.5	88	76	84	82	85.5
40	80	81	76.5	87	73.5	83	81	84
60	78.5	80.7	74	86	71.5	82	80	82
80	77.5	80	71.5	85.5	69.5	81	79	80.7
100	77	79.8	69	85	68	80.5	78.3	79
120	76	79	67	84	66.5	80	77.5	78
140	75	78.8	65.5	82.7	65	79.5	76.5	77
160	74	78.3	63.5	82	63.5	79	75.7	76
180	73	78	62		62.5	78	75	75
200	72.3	77.5	60.5		61	77.7	74.5	74
220	72	77	59		60	77	74	72.5
240	71	76.9	57.5		58	76.5	73	71.6
water content	28.1		23.6		24.5		21.8	
	25.9		22.9		22.6		25.1	
	25		25.5		26		23.8	

2-T		2-C	
entre surco 1 y 2	entre 2 ultimos surcos	entre surco 1 y 2	entre 2 ultimos surcos

sec	1		2		1		2		1		2	
0	83.5	88	87	88	90	86	86	87	86	87		
10	81	83.5	82	84.5	85.3	82	81.5	80.5	81.5	80.5		
20	80	83	81	83.5	82.3	80.5	80	78	80	78		
40	78.5	81	79	82	79.5	78.5	77.3	75.3	77.3	75.3		
60	77.5	80	77	80.7	76.5	77	75.3	73	75.3	73		
80	76.5	78.5	76	79.7	74.5	75.5	73	71	73	71		
100	75	77	75	78.7	72.5	74.3	71.7	69	71.7	69		
120	74	76	74	78	71	73	70	67	70	67		
140	73.5	75	72.7	77	69	72	68.7	65.5	68.7	65.5		
160	73	74	71.7	76	67.5	71	67	64.5	67	64.5		
180	72	73	71	75.5	66	70	65.7	63	65.7	63		
200	71.5	72	69.5	75	64.5	69	64.7	61.5	64.7	61.5		
220	71	71	68.7	74	63	67.5	63	60	63	60		
240	70	70	68	73.3	61.5	66.5	62	59	62	59		
water	26.2		24.4		25.2		27.3		27.3			
content	23.5		25.7		23.6		21.2		21.2			
	24.1		22.2		25.4		23.2		23.2			

sec	3-T				3-C			
	entre surco 1 y		entre 2 ultimos		entre surco 1 y		entre 2 ultimos	
	2		surcos		2		surcos	
	1	2	1	2	1	2	1	2
0	88.5	88	90	89	82	86.5	83	85
10	84.5	84	83	85	78.5	83	79	81
20	83	81.5	81	83.5	76.5	82	76.5	80
40	81	79	75.5	82.5	74	80	73.5	78
60	79.3	77	74	81	72	79	71.5	76.7
80	78	75	72	80	70	77.3	70	75.3
100	76.7	73	70	78.7	68.5	76	68	74.3
120	75.3	71.3	68	77.7	67	75	66.5	73
140	74	69.7	66	77	65.3	74	65	72
160	73	68.5	64	76	64	73	64	71
180	72	67	63	75	62.3	72	63	70
200	71	66	61.5	74	61	71.3	61.5	69.3
220	70	65	60	73	60	70	60.3	68
240	69	63.5	58.5	72.5	59	69.3	59	67.3
water	21.8		20.6		26.3		21.4	
content	20.1		22.1		24.9		24.6	
	22		22.4		19.1		26.2	

Disk infiltrometer, third date, 20 Dec. 2006.

		1-T	
		fila aparatos	
time	sqrt time	1	infiltr (cm)
0	0	90	0.000

10	3.162278	85.5	0.290
20	4.472136	83	0.452
40	6.324555	80	0.645
60	7.745967	78	0.774
80	8.944272	75.5	0.935
100	10	74	1.032
120	10.95445	72	1.161
140	11.83216	70.5	1.258
160	12.64911	69	1.355
180	13.41641	67.5	1.452
200	14.14214	66	1.548
220	14.8324	65	1.613
240	15.49193	64	1.677
260	16.12452	62.5	1.774
280	16.7332	61.5	1.839
300	17.32051	60	1.935
		1-T	
		fila aparatos	
time		2	infiltr (cm)
0	0	88	0.000
10	3.162278	83.5	0.290
20	4.472136	82	0.387
40	6.324555	80	0.516
60	7.745967	78	0.645
80	8.944272	77	0.710
100	10	75	0.839
120	10.95445	74	0.903
140	11.83216	73	0.968
160	12.64911	72	1.032
180	13.41641	71	1.097
200	14.14214	70	1.161
220	14.8324	68.5	1.258
240	15.49193	67.5	1.323
260	16.12452	66.5	1.387
280	16.7332	66	1.419
300	17.32051	65	1.484
		1-T	
		penultima fila	
time		3	infiltr (cm)
0	0	88	0.000
10	3.162278	81.5	0.419
20	4.472136	78.5	0.613
40	6.324555	74.5	0.871
60	7.745967	71.5	1.065
80	8.944272	68.5	1.258

100	10	66	1.419
120	10.95445	64	1.548
140	11.83216	61.5	1.710
160	12.64911	60	1.806
180	13.41641	58	1.935
200	14.14214	56	2.065
220	14.8324	54	2.194
240	15.49193	52	2.323
260	16.12452	50.5	2.419
280	16.7332	49	2.516
300	17.32051	47	2.645
		1-T	
		penultima fila	
time		4	infiltr (cm)
0	0	86	0.000
10	3.162278	78	0.516
20	4.472136	75	0.710
40	6.324555	71	0.968
60	7.745967	68	1.161
80	8.944272	66	1.290
100	10	64	1.419
120	10.95445	62.5	1.516
140	11.83216	61	1.613
160	12.64911	59.5	1.710
180	13.41641	58	1.806
200	14.14214	57	1.871
220	14.8324	55.5	1.968
240	15.49193	54	2.065
260	16.12452	53	2.129
280	16.7332	52	2.194
300	17.32051	50.5	2.290
		1-C	
		fila aparatos	
time		1	infiltr (cm)
0	0	87	0.000
10	3.162278	76	0.710
20	4.472136	70	1.097
40	6.324555	62	1.613
60	7.745967	55	2.065
80	8.944272	49	2.452
100	10	44	2.774
120	10.95445	39	3.097
140	11.83216	34	3.419
160	12.64911	29.5	3.710
180	13.41641	25.5	3.968

200	14.14214	21	4.258
220	14.8324	17	4.516
240	15.49193	13	4.774
260	16.12452	9	5.032
280	16.7332	5	5.290
300	17.32051	2	5.484
		1-C	
		fila aparatos	
time		2	infiltr (cm)
0	0	88.5	0.000
10	3.162278	81	0.484
20	4.472136	77.5	0.710
40	6.324555	72.5	1.032
60	7.745967	68	1.323
80	8.944272	65	1.516
100	10	62	1.710
120	10.95445	59	1.903
140	11.83216	56	2.097
160	12.64911	53.5	2.258
180	13.41641	51	2.419
200	14.14214	49	2.548
220	14.8324	47	2.677
240	15.49193	44	2.871
260	16.12452	42	3.000
280	16.7332	40	3.129
300	17.32051	38	3.258
		1-C	
		penultima fila	
time		3	infiltr (cm)
0	0	87	0.000
10	3.162278	79	0.516
20	4.472136	75	0.774
40	6.324555	69	1.161
60	7.745967	63.5	1.516
80	8.944272	59.5	1.774
100	10	55	2.065
120	10.95445	52	2.258
140	11.83216	49	2.452
160	12.64911	46	2.645
180	13.41641	43	2.839
200	14.14214	40	3.032
220	14.8324	37	3.226
240	15.49193	34	3.419
260	16.12452	31.5	3.581
280	16.7332	29	3.742

300	17.32051	26.5	3.903
		1-C	
		penultima fila	
time		4	infiltr (cm)
0	0	88.5	0.000
10	3.162278	82	0.419
20	4.472136	79.5	0.581
40	6.324555	75	0.871
60	7.745967	71.5	1.097
80	8.944272	68.5	1.290
100	10	65.5	1.484
120	10.95445	63	1.645
140	11.83216	61	1.774
160	12.64911	58.5	1.935
180	13.41641	56	2.097
200	14.14214	54	2.226
220	14.8324	52	2.355
240	15.49193	50	2.484
260	16.12452	48	2.613
280	16.7332	46	2.742
300	17.32051	44	2.871
		2-T	
		fila aparatos	
time		1	infiltr (cm)
0	0	85.5	0.000
10	3.162278	80	0.355
20	4.472136	77	0.548
40	6.324555	72.5	0.839
60	7.745967	69	1.065
80	8.944272	66	1.258
100	10	63	1.452
120	10.95445	61	1.581
140	11.83216	59	1.710
160	12.64911	57	1.839
180	13.41641	55	1.968
200	14.14214	53	2.097
220	14.8324	51	2.226
240	15.49193	49.5	2.323
260	16.12452	48	2.419
280	16.7332	46.5	2.516
300	17.32051	45.5	2.581
		2-T	
		fila aparatos	
time		2	infiltr (cm)
0	0	84	0.000

10	3.162278	78	0.387
20	4.472136	75	0.581
40	6.324555	70.5	0.871
60	7.745967	67	1.097
80	8.944272	64.5	1.258
100	10	62	1.419
120	10.95445	60	1.548
140	11.83216	57.5	1.710
160	12.64911	55	1.871
180	13.41641	54	1.935
200	14.14214	52	2.065
220	14.8324	50	2.194
240	15.49193	48.5	2.290
260	16.12452	47	2.387
280	16.7332	45	2.516
300	17.32051	43.5	2.613
		2-T	
		penultima fila	
time		3	infiltr (cm)
0	0	86	0.000
10	3.162278	79	0.452
20	4.472136	74.5	0.742
40	6.324555	69	1.097
60	7.745967	65	1.355
80	8.944272	61	1.613
100	10	57.5	1.839
120	10.95445	54	2.065
140	11.83216	50	2.323
160	12.64911	48	2.452
180	13.41641	45	2.645
200	14.14214	42	2.839
220	14.8324	39.5	3.000
240	15.49193	37	3.161
260	16.12452	34	3.355
280	16.7332	31.5	3.516
300	17.32051	29	3.677
		2-T	
		penultima fila	
time		4	infiltr (cm)
0	0	87.5	0.000
10	3.162278	81	0.419
20	4.472136	78	0.613
40	6.324555	75	0.806
60	7.745967	72	1.000
80	8.944272	70	1.129

100	10	68	1.258
120	10.95445	66	1.387
140	11.83216	64	1.516
160	12.64911	62.5	1.613
180	13.41641	61	1.710
200	14.14214	59.5	1.806
220	14.8324	58	1.903
240	15.49193	57	1.968
260	16.12452	55.5	2.065
280	16.7332	54	2.161
300	17.32051	52.5	2.258
		2-C	
		fila aparatos	
time		1	infiltr (cm)
0	0	85	0.000
10	3.162278	78	0.452
20	4.472136	75	0.645
40	6.324555	71.5	0.871
60	7.745967	69.5	1.000
80	8.944272	66	1.226
100	10	64	1.355
120	10.95445	62	1.484
140	11.83216	60	1.613
160	12.64911	58.5	1.710
180	13.41641	56.5	1.839
200	14.14214	55	1.935
220	14.8324	53	2.065
240	15.49193	52	2.129
260	16.12452	50	2.258
280	16.7332	48.5	2.355
300	17.32051	47	2.452
		2-C	
		fila aparatos	
time		2	infiltr (cm)
0	0	87	0.000
10	3.162278	79	0.516
20	4.472136	74.5	0.806
40	6.324555	67.5	1.258
60	7.745967	62	1.613
80	8.944272	57	1.935
100	10	53	2.194
120	10.95445	49	2.452
140	11.83216	45	2.710
160	12.64911	41.5	2.935
180	13.41641	38	3.161

200	14.14214	35	3.355
220	14.8324	31.5	3.581
240	15.49193	28	3.806
260	16.12452	25	4.000
280	16.7332	22	4.194
300	17.32051	19.5	4.355
		2-C	
		penultima fila	
time		3	infiltr (cm)
0	0	86	0.000
10	3.162278	80	0.387
20	4.472136	78	0.516
40	6.324555	74	0.774
60	7.745967	71	0.968
80	8.944272	69	1.097
100	10	66.5	1.258
120	10.95445	64.5	1.387
140	11.83216	62	1.548
160	12.64911	60	1.677
180	13.41641	58	1.806
200	14.14214	56.5	1.903
220	14.8324	54.5	2.032
240	15.49193	53	2.129
260	16.12452	51.5	2.226
280	16.7332	50	2.323
300	17.32051	48	2.452
		2-C	
		penultima fila	
time		4	infiltr (cm)
0	0	85.5	0.000
10	3.162278	80	0.355
20	4.472136	78	0.484
40	6.324555	74.5	0.710
60	7.745967	72	0.871
80	8.944272	70	1.000
100	10	68	1.129
120	10.95445	66	1.258
140	11.83216	64	1.387
160	12.64911	63	1.452
180	13.41641	61	1.581
200	14.14214	59.5	1.677
220	14.8324	58	1.774
240	15.49193	56.5	1.871
260	16.12452	55	1.968
280	16.7332	54	2.032

300	17.32051	52	2.161
		3-T	
		fila aparatos	
time		1	infiltr (cm)
0	0	86.5	0.000
10	3.162278	74	0.806
20	4.472136	67	1.258
40	6.324555	58	1.839
60	7.745967	50	2.355
80	8.944272	43	2.806
100	10	37	3.194
120	10.95445	31	3.581
140	11.83216	25.5	3.935
160	12.64911	20	4.290
180	13.41641	15	4.613
200	14.14214	10	4.935
220	14.8324	5	5.258
240	15.49193	0	5.581
260	16.12452		5.581
280	16.7332		5.581
300	17.32051		5.581
		3-T	
		fila aparatos	
time		2	infiltr (cm)
0	0	87.5	0.000
10	3.162278	77	0.677
20	4.472136	72	1.000
40	6.324555	65.5	1.419
60	7.745967	59.5	1.806
80	8.944272	55	2.097
100	10	50	2.419
120	10.95445	46.5	2.645
140	11.83216	43	2.871
160	12.64911	39.5	3.097
180	13.41641	36.5	3.290
200	14.14214	33	3.516
220	14.8324	30	3.710
240	15.49193	27	3.903
260	16.12452	24	4.097
280	16.7332	21	4.290
300	17.32051	18.5	4.452
		3-T	
		penultima fila	

time		3	infiltr (cm)
0	0	77	0.000
10	3.162278	70	0.452
20	4.472136	67	0.645
40	6.324555	62	0.968
60	7.745967	58	1.226
80	8.944272	54.5	1.452
100	10	51	1.677
120	10.95445	48	1.871
140	11.83216	45	2.065
160	12.64911	43	2.194
180	13.41641	40	2.387
200	14.14214	38	2.516
220	14.8324	35	2.710
240	15.49193	33	2.839
260	16.12452	30.5	3.000
280	16.7332	28	3.161
300	17.32051	26	3.290
		3-T	
		penultima fila	
time		4	infiltr (cm)
0	0	88.5	0.000
10	3.162278	80	0.548
20	4.472136	76	0.806
40	6.324555	71	1.129
60	7.745967	67	1.387
80	8.944272	63	1.645
100	10	60	1.839
120	10.95445	57	2.032
140	11.83216	54	2.226
160	12.64911	51	2.419
180	13.41641	48	2.613
200	14.14214	46	2.742
220	14.8324	43.5	2.903
240	15.49193	41	3.065
260	16.12452	38.5	3.226
280	16.7332	36	3.387
300	17.32051	34	3.516
		3-C	
		fila aparatos	
time		1	infiltr (cm)
0	0	88	0.000
10	3.162278	77.5	0.677
20	4.472136	72.5	1.000
40	6.324555	65	1.484

60	7.745967	59	1.871
80	8.944272	54	2.194
100	10	48	2.581
120	10.95445	44	2.839
140	11.83216	39	3.161
160	12.64911	34.5	3.452
180	13.41641	30	3.742
200	14.14214	26	4.000
220	14.8324	21.5	4.290
240	15.49193	27	3.935
260	16.12452	13	4.839
280	16.7332	9.5	5.065
300	17.32051	6	5.290
		3-C	
		fila aparatos	
time		2	infiltr (cm)
0	0	90	0.000
10	3.162278	80.5	0.613
20	4.472136	78	0.774
40	6.324555	73.5	1.065
60	7.745967	70	1.290
80	8.944272	66.5	1.516
100	10	63.5	1.710
120	10.95445	61	1.871
140	11.83216	58.5	2.032
160	12.64911	56	2.194
180	13.41641	54	2.323
200	14.14214	52	2.452
220	14.8324	50	2.581
240	15.49193	48	2.710
260	16.12452	46	2.839
280	16.7332	44	2.968
300	17.32051	42	3.097
		3-C	
		penultima fila	
time		3	infiltr (cm)
0	0	90.5	0.000
10	3.162278	86	0.290
20	4.472136	83.5	0.452
40	6.324555	80	0.677
60	7.745967	77	0.871
80	8.944272	74	1.065
100	10	71.5	1.226
120	10.95445	69.5	1.355
140	11.83216	67	1.516

160	12.64911	65.5	1.613
180	13.41641	63.5	1.742
200	14.14214	62	1.839
220	14.8324	60	1.968
240	15.49193	58	2.097
260	16.12452	57	2.161
280	16.7332	55	2.290
300	17.32051	49	2.677
		3-C	
		penultima fila	
time		4	infiltr (cm)
0	0	88	0.000
10	3.162278	81.5	0.419
20	4.472136	77.5	0.677
40	6.324555	73	0.968
60	7.745967	69.5	1.194
80	8.944272	66	1.419
100	10	63.5	1.581
120	10.95445	61	1.742
140	11.83216	58	1.935
160	12.64911	56	2.065
180	13.41641	54	2.194
200	14.14214	52	2.323
220	14.8324	50	2.452
240	15.49193	47.5	2.613
260	16.12452	46	2.710
280	16.7332	44	2.839
300	17.32051	42	2.968

soil moisture:				
		WET	DRY	% moisture
1	C	74.1	65.3	11.88
2	C	69.7	60.9	12.63
3	C	79.7	70.3	11.79
1	T	71.4	61.9	13.31
2	T	71.6	63.6	11.17
3	T	82.2	71.7	12.77

Disk infiltrometer, shown is cumulative infiltration in cm.

		0 t/ha		
time	1	2	3	
s	cumul	cumul	cumul	

0	0.0	0.0	0.0
15	0.5	0.1	0.2
30	1.0	0.1	0.4
45	1.1	0.2	0.5
60	1.4	0.4	0.6
120	2.2	0.7	1.0
180	2.5	1.2	1.1
240	3.0	1.5	1.3
300	3.3	1.8	1.7
600	4.3	2.4	2.4
900	5.3	3.3	3.0
1200	6.3	4.0	3.5
1800	7.8	5.1	4.2
2700	9.9	6.5	5.2
3600	11.8	7.6	6.2
5400	15.8	9.8	6.9
7200	20.8	12.8	8.2

8 t/ha			
	1	2	3
	cumul	cumul	cumul
0	0.0	0.0	0.0
15	0.2	0.1	0.2
30	0.3	0.3	0.4
45	0.5	0.5	0.5
60	0.8	0.6	0.6
120	1.5	1.3	0.8
180	1.8	2.0	1.0
240	2.3	2.5	1.2
300	2.5	3.0	1.4
600	3.2	4.5	2.2
900	4.3	6.0	2.6
1200	4.5	6.9	3.0
1800	5.5	9.5	3.9
2700	7.3	12.9	4.6
3600	8.9	15.9	5.6
5400	11.8	20.7	7.6
7200	14.9	25.7	9.1

20 t/ha			
	1	2	3
	cumul	cumul	cumul
0	0.0	0.0	0.0
15	0.1	0.1	0.6

30	0.4	0.3	1.1
45	0.5	0.7	1.3
60	0.7	0.9	1.4
120	1.7	2.7	1.6
180	2.0	3.2	1.8
240	2.3	3.7	2.0
300	2.8	4.7	2.1
600	3.8	8.0	2.5
900	4.4	10.3	3.0
1200	5.0	12.3	3.5
1800	6.1	18.0	4.2
2700	8.2	22.9	5.0
3600	10.1	30.2	5.6
5400	13.1	37.0	6.7
7200	17.1	43.5	8.0

Table C9. Data for figure 4.4.

	Crop uptake	Loss by saturated leaching	Loss by unsaturated leaching
Ca			
0 t biochar ha ⁻¹	17.802	9.4	54.6
20 t biochar ha ⁻¹	23.692	2.2	47.2
Mg			
0 t biochar ha ⁻¹	30.317	3.5	33.5
20 t biochar ha ⁻¹	41.918	0.7	26.1
K			
0 t biochar ha ⁻¹	133.691	5.1	36.0
20 t biochar ha ⁻¹	258.093	1.5	24.7
N			
0 t biochar ha ⁻¹	254.915	9.2	111.24
20 t biochar ha ⁻¹	334.964	2.0	109.65

Table C10. Root biomass data (Grams dry matter in core of constant volume).

rep	trt	depth (cm)				
		0 - 20	20 - 40	40 - 60	60 - 80	80 - 100
3	0	3.081	2.578	2.616	2.585	2.56
3	8	3.067	2.725	2.545	2.607	2.522

3	20	2.926	2.525	2.551	2.543	2.507
2	0	2.992	2.776	2.551	2.574	2.569
2	8	3.134	2.643	2.551		
2	20	3.869	2.884	2.622		
1	0	3.277	2.598	2.609		
1	20	3.162	2.595	2.557		
1	8	3.165	2.637	2.558		

Table C11. Data for Figure 4.3. All data in hPa

Logged tensiometer data, year 1, unamended control

day	C15	C30	C60	C120	C200
14.42	-135.5	-104.74	-87.84	-65.72	-68
14.92	-146.38	-110.5	-91.68	-67.64	-71.2
15.37	-156.62	-120.74	-96.16	-70.84	-75.04
15.87	-27.39	-10.71	-24.53	-36.92	-66.08
16.33	-57.42	-45.22	-41.76	-33.08	-34.72
16.83	-67.02	-45.22	-50.08	-41.4	-36.64
17.29	-76.62	-61.22	-56.48	-45.24	-40.48
17.79	-93.26	-72.74	-63.52	-49.72	-44.96
18.25	-102.86	-82.34	-69.28	-52.28	-49.44
18.75	-115.02	-90.02	-75.68	-56.12	-54.56
19.21	-127.82	-100.9	-80.16	-59.32	-59.04
19.71	-138.06	-107.3	-85.92	-63.16	-64.8
20.17	-44.62	-8.79	-57.12		-68.64
20.67	-73.42	-52.9	-50.08		-69.28
21.12	-87.5	-66.98	-58.4		-55.84
21.62	-102.22	-79.14	-69.28		-55.2
22.08	-116.3	-88.74	-72.48		-57.76
22.58	-131.66	-101.54	-83.36		-63.52
23.04	-114.38	-2.4	-84.64		-67.36
23.54	-68.94	-49.7	-50.08		-65.44
24.00	-76.62	-59.94	-55.2		-52
24.50	-84.94	-74.66	-66.72		-53.28
24.96	-90.7	-70.82	-68		-55.2
25.46	-101.58	-77.86	-73.76		-60.32
25.92	-115.02	-84.26	-75.04		-62.88
26.42	-127.82	-97.7	-82.08		-67.36
26.87	-114.38	-73.38	-84		-70.56
27.37	-116.3	-72.1	-84		-74.4
27.83	-48.46	-27.94	-41.76		-74.4
28.33	-60.62	-48.42	-48.16		-59.68
28.79	-67.66	-47.78	-53.92		-49.44

29.29	-66.38	-54.82	-52		-48.8
29.75	-84.94	-66.34	-57.76		-48.8
30.25	-79.82	-53.54	-64.16		-49.44
30.71	-35.02	-19.69	-60.96		-51.36
31.21	-43.34	-29.86	-33.44		-52.64
31.67	-49.1	-37.54	-41.12		-37.92
32.17	-67.74	-56.18	-48.88		-35.44
32.62	-50.38	-17.77	-37.92		-38.56
33.12	-61.98	-50.42	-47.6		-38.64
33.58	-36.38	-51.06	-54.64		-41.2
34.08	-50.46	-43.38	-43.76		-43.76
34.54	-67.66	-54.82	-49.44		-42.4
35.04	-77.34	-67.06	-57.84		-42.48
35.50	-68.3	-61.86	-61.6		-45.6
36.00	-90.78	-73.46	-63.6		-48.24
36.46	-100.3	-86.82	-73.12		-52
36.96	-89.42	-68.26	-72.48		-54.56
37.42	-96.46	-77.22	-71.84		-57.76
37.92	-58.14	-40.18	-51.44		-61.04
38.37	-72.86	-57.46	-55.28		-62.96
38.87	-89.5	-68.98	-60.4		-61.04
39.33	-97.82	-79.22	-68.08		-61.04
39.83	-113.82	-87.54	-73.84	-56.2	-62.96
40.29	-45.98	-21.62	-71.92	-58.76	-64.88
40.79	-57.5	-42.1	-39.28	-38.92	-66.8
41.25	-72.22	-58.1	-50.8	-38.28	-54.64
41.75	-63.9	-55.54	-58.48	-44.04	-48.24
42.21	-77.34	-64.5	-59.76	-42.76	-49.52
42.71	-87.58	-68.98	-64.24	-50.44	-52.72
43.17	-98.46	-78.58	-67.44	-51.72	-54.64
43.67	-111.9	-90.1	-76.4	-55.56	-58.48
44.12	-124.7	-97.78	-78.32	-57.48	-61.04
44.62	-134.86	-108.58	-86.56	-61.88	-66.08
45.08	-149.66	-115.7	-87.92	-63.88	-68.72
45.58	-160.46	-129.7	-97.44	-68.28	-72.48
46.04	-176.54	-133.62	-96.88	-69	-75.12
46.54	-53.02	-41.46		-29.32	-40.56
47.00	-73.5	-59.38		-39.56	-32.88
47.50	-87.58	-72.18	-62.32	-46.6	-39.28
47.96	-74.14	-60.66	-62.96	-49.16	-44.4
48.46	-40.22	-50.42	-64.88	-51.08	-49.52
48.92	-56.22	-43.38	-43.12	-44.68	-54
49.42	-72.22	-59.38	-52.72	-42.76	-53.36
49.87	-56.86	-41.46	-43.12	-40.2	-50.8
50.37	-73.5	-60.02	-52.72	-40.84	-46.96
50.83	-88.22	-70.26	-59.12	-45.32	-46.32
51.33	-95.9	-79.86	-67.44	-50.44	-49.52
51.79	-91.42	-84.34	-71.92	-37.64	-52.72

52.29	-74.14	-57.46	-66.16	-34.44	-48.24
52.75	-66.46	-56.82	-64.88	-40.84	-48.88
53.25	-77.98	-65.78	-64.88	-43.4	-52.72
53.71	-95.9	-76.66	-70	-50.44	-55.92
54.21	-106.14	-86.9	-74.48	-53.64	-58.48
54.67	-97.18	-85.62	-78.96	-56.2	-61.04
55.17	-97.18	-82.42	-79.6	-59.4	-64.24
55.62	-108.7	-90.74	-83.44	-62.6	-67.44
56.12	-113.82	-93.3	-84.72	-63.88	-70.64
56.58	-125.34	-103.54	-91.12	-66.44	-74.48
57.08	-140.06	-111.22	-90.48	-67.08	-76.4
57.54	5.85	4.61			-79.6
58.04	-53.02	-43.38	-41.84		-26.48
58.50	-46.62	-33.14	-33.52	-21.65	-32.24
59.00	-61.98	-50.42	-47.6	-36.36	-31.6
59.46	-77.98	-64.5	-57.84	-43.4	-38
59.96	-93.34	-75.38	-62.96	-46.6	-43.12
60.42	-105.5	-85.62	-70.64	-51.08	-48.24
60.92	-122.14	-96.5	-75.12	-54.28	-52.72
61.37	-132.38	-106.74	-81.52	-58.12	-57.2
61.87	-156.7	-119.54	-86	-60.68	-61.04
62.33	-168.22	-130.42	-91.76	-64.52	-64.88
62.83	-193.18	-141.94	-97.52	-67.08	-68.08
63.29	-206.62	-152.18	-102.64	-70.28	-71.92
63.79	-226.46	-161.78	-107.76	-73.48	-75.76
64.25	-221.98	-163.06	-111.6	-75.4	-79.6
64.75	2.01	2.05	0.39	-14.61	-82.8
65.21	-47.26	-37.62	-38	-29.96	-25.21
65.71	-62.62	-48.5	-51.44	-39.56	-36.08
66.17	-74.14	-60.02	-55.92	-44.04	-41.84
66.67	-90.14	-73.46	-62.96	-47.88	-46.96
67.12	-100.38	-82.42	-68.72	-51.08	-50.8
67.62	-116.38	-94.58	-75.76	-55.56	-55.28
68.08	-125.34	-102.26	-79.6	-57.48	-58.48
68.58	-144.54	-115.7	-87.92	-62.6	-63.6
69.04	-155.42	-124.02	-89.84	-63.88	-66.8
69.54	-177.18	-137.46	-97.52	-68.36	-71.28
70.00	-192.54	-147.7	-99.44	-69.64	-73.84
70.50	-210.46	-159.22	-106.48	-73.48	-78.32
70.96	-209.82	-165.62	-109.04	-74.76	-80.88
71.46	-213.66	-171.38	-116.08		-85.36
71.92	-237.34	-179.06	-117.36		-87.92
72.42	-252.06	-189.3	-123.12		-91.76
72.87	-290.46	-200.82	-126.32		-94.32
73.37	-305.18	-210.42	-130.8		-97.52
73.83	-295.58	-124.66	-133.36		-100.08
74.33	9.04	11.64	17.66		3.58
74.79	-42.78	-35.7	-37.36		-27.76

75.29	-62.62	-52.34	-49.52		-36.72
75.75	-85.02	-70.9	-58.48		-42.48
76.25	-37.02	-7.56	-45.04		-46.96
76.71	-58.78	-46.58	-42.48		-44.4
77.21	-73.5	-60.66	-53.36		-39.92
77.67	-54.3	-46.58	-54.64		-45.04
78.17	-71.58	-61.3	-57.84		-49.52
78.62	-44.7	-28.66	-30.32		-52.72
79.12	-65.82	-52.34	-47.6		-45.04
79.58	-79.26	-65.14	-56.56		-43.12
80.08	-82.46	-70.9	-62.96		-46.96
80.54	-88.86	-78.58	-68.08		-52.08
81.04	-91.42	-81.14	-71.28		-55.92
81.50	-103.58	-90.74	-77.04		-59.76
82.00	-41.5	-29.94	-32.24		-62.96
82.46	-65.82	-54.26	-48.88		-49.52
82.96	-78.62	-65.78	-57.2		-42.48
83.42	-84.38	-74.1	-64.88		-46.32
83.92	-103.58	-86.9	-70	-51.72	-50.8
84.37	-111.9	-94.58	-75.76	-55.56	-55.92
84.87	-127.26	-106.1	-80.88	-58.76	-61.04
85.33	-85.66	-45.94	-84.08	-61.96	-65.52
85.83	-69.66	-39.54	-72.56	-63.88	-68.72
86.29	-70.94	-53.62	-61.68	-61.32	-72.56
86.79	-60.7	-38.26	-49.52	-54.92	-74.48
87.25	-71.58	-54.9	-52.72	-45.96	-73.84
87.75	-86.3	-68.98	-59.76	-45.96	-66.8
88.21	-92.06	-75.38	-65.52	-48.52	-62.32
88.71	-108.06	-86.9	-72.56	-53.64	-62.32
89.17	-113.82	-93.3	-76.4	-56.2	-63.6
89.67	-122.14	-29.94	-81.52	-60.04	-67.44
90.12	-92.7	-49.78	-68.08	-56.84	-70.64
90.62	-89.5	-54.9	-65.52		-73.2
91.08	-97.18	-65.14	-66.8		-71.28
91.58	-112.54	-79.86	-74.48		-68.72
92.04	-121.5	-87.54	-77.68		-68.08
92.54	-132.38	-88.18	-84.08		-71.28
93.00	-49.82	-32.5	-36.72		-69.36
93.50	-72.86	-57.46	-53.36		-35.44
93.96	-63.9	-33.14	-40.56		-36.72
94.46	-79.9	-58.1	-54		-35.44
94.92	-94.62	-70.9	-60.4		-38.64
95.42	-104.86	-81.14	-68.72		-43.12
95.87	-65.18	-38.9	-43.12		-46.96
96.37	-70.94	-56.82	-53.36		-42.48
96.83	-55.58	-40.18	-39.28		-34.16
97.33	-67.1	-55.54	-51.44		-33.52
97.79	-70.3	-52.34	-53.36		-38

98.29	-62.62	-49.14	-52.08		-41.84
98.75	-51.74	-28.02	-33.52		-43.12
99.25	-67.74	-51.7	-48.24		-35.44
99.71	-84.38	-65.78	-57.84	-41.48	-38
100.21	-92.06	-74.1	-64.24	-46.6	-42.48
100.67	-104.86	-84.34	-70.64	-51.08	-46.96
101.17	-111.9	-91.38	-75.12	-54.92	-51.44
101.62	-125.98	-100.98	-81.52	-58.12	-56.56
102.12	-131.74	-106.74	-84.72	-60.68	-61.04
102.58	-143.26	-115.7	-89.2	-64.52	-65.52
103.08	-152.86	-121.46	-93.04	-66.44	-68.72
103.54	-168.22	-133.62	-100.72	-70.28	-73.2
104.04	-177.82	-137.46	-100.72	-71.56	-76.4
104.50	-40.22	-8.84	-102.64		-80.24
105.00	-51.1	-36.98	-38.64		-25.22
105.46	-69.02	-53.62	-50.8		-34.16
105.96	-79.26	-63.86	-57.84		-40.56
106.42	-92.06	-74.74	-64.88		-46.32
106.92	-106.78	-83.06	-69.36		-50.16
107.37	-116.38	-92.66	-75.76		-55.28
107.87	-44.06	-29.3	-32.24		-58.48
108.33	-58.78	-47.86	-45.04		-39.28
108.83	-31.26	-17.8	-21.38		-39.28
109.29	-59.42	-46.58	-43.12		-29.68
109.79	-82.46	-63.22	-54.64		-34.8
110.25	-92.06	-72.82	-61.68		-40.56
110.75	-113.18	-84.34	-69.36		-46.96
111.21	-28.08	-18.44	-23.94		-14.34
111.71	-69.02	-51.06	-47.6		-32.24
112.17	-81.18	-63.86	-55.92		-39.28
112.67	-101.02	-77.94	-66.16		-45.68
113.12	-111.26	-84.98	-70		-49.52
113.62	-47.26	-35.06	-36.72		-21.37
114.08	-67.1	-52.34	-48.88		-32.88
114.58	-84.38	-67.7	-61.04		-41.2
115.04	-95.26	-73.46	-62.96	-48.52	-45.68
115.54	-113.18	-89.46	-74.48	-54.28	-52.08
116.00	-124.7	-92.02	-75.12	-55.56	-55.28
116.50	-125.34	-98.42	-82.8	-60.04	-59.76
116.96	-116.38	-86.9	-83.44	-61.96	-62.96
117.46	-124.06	-97.78	-87.92	-65.8	-67.44
117.92	-134.94	-101.62	-88.56	-67.08	-70.64
118.42	-143.26	-111.86	-93.04	-69.64	-74.48
118.87	-159.9	-115.7	-95.6	-71.56	-77.68
119.37	-169.5	-125.3	-99.44	-73.48	-80.88
119.83	-152.22	-90.74	-101.36	-74.76	-83.44
120.33	-138.14	-100.34	-102	-77.32	-86.64
120.79	-131.74	-85.62	-102.64	-79.24	-89.2

121.29	-118.3	-88.82	-99.44	-81.16	-92.4
121.75	-133.02	-95.86	-98.8	-82.44	-94.96
122.25	-148.38	-107.38	-100.08	-82.44	-97.52
122.71	-76.06	-18.42	-84.08	-82.44	-100.08
123.21	-52.38	-40.18	-43.76	-61.32	-102
123.67	-75.42	-56.82	-52.08	-49.8	-101.36
124.17	-90.14	-67.06	-57.84	-47.88	-91.76
124.62	-103.58	-75.38	-64.88	-50.44	-82.8
125.12	-106.78	-81.78	-70	-53	-75.12
125.58	-113.74	-90.02	-76.96	-57.4	-73.76
126.08	-116.38	-90.1	-78.32	-58.76	-73.84
126.54	-117.58	-99.62	-85.92	-63.16	-76.32
127.04	-127.9	-99.06	-85.36	-64.52	-78.96
127.50	-121.42	-90.02	-89.12	-67	-82.72
128.00	-111.9	-85.62	-88.56	-69.64	-86
128.46	-116.94	-96.42	-92.32	-72.12	-90.4
128.96	-131.02	-99.62	-91.68	-72.76	-93.6
129.42	-138.7	-107.3	-94.24	-74.04	-96.8
129.92	-142.54	-111.78	-96.8	-75.32	-98.72
130.37	-141.9	-117.54	-100.64	-77.24	-101.92
130.87	-157.26	-119.46	-103.2	-79.16	-103.2
131.33	-150.22	-15.21	-104.48	-81.08	-105.12
131.83	-47.18	-33.06	-34.08	-56.12	-107.04
132.29	-64.46	-50.98	-47.52	-38.84	-101.92
132.79	-79.82	-61.22	-55.2	-42.68	-75.68
133.25	-90.06	-70.82	-61.6	-46.52	-61.6
133.75	-99.66	-77.22	-67.36	-50.36	-57.76
134.21	-104.78	-83.62	-71.2	-53.56	-57.76
134.71	-75.98	-65.06	-75.68	-57.4	-60.32
135.17	-65.1	-58.66	-72.48	-59.96	-62.88
135.67	-82.38	-67.62	-69.92	-60.6	-67.36
136.12	-91.98	-75.94	-72.48	-60.6	-69.92
136.62	-101.58	-86.18	-79.52	-62.52	-73.12
137.08	-113.74	-88.74	-78.88	-62.52	-73.76
137.58	-123.34	-99.62	-86.56	-65.08	-76.96
138.04	-134.22	-101.54	-85.92	-65.72	-78.24
138.54	-143.82	-109.86	-91.04	-68.28	-81.44
139.00	-150.86	-113.06	-93.6	-70.2	-83.36
139.50	-154.7	-120.74	-99.36	-72.76	-86.56
139.96	-164.94	-122.02	-100.64	-74.68	-89.12
140.46	-138.06	-113.06	-107.04	-77.24	-92.96
140.92	-143.18	-108.58	-105.76	-79.16	-95.52
141.42	-147.66	-112.87722	-108.96	-81.72	-99.36
141.87	-162.38	-120.74	-108.96	-83.64	-101.92
142.37	-17.16	-9.44	7.46	-4.98	
142.83	-56.78	-42.02	-41.12	-33.72	-23.89
143.33	-72.14	-58.66	-53.92	-42.04	-38.56
143.79	-84.3	-65.06	-59.04	-45.88	-43.68

144.29	-87.5	-73.38	-65.44	-50.36	-48.8
144.75	-101.58	-77.86	-69.92	-54.2	-53.28
145.25	-114.38	-86.82	-73.76	-56.76	-57.12
145.71	-125.9	-94.5	-80.16	-59.96	-60.96
146.21	-138.7	-101.54	-82.72	-61.88	-64.16
146.67	-144.46	-109.86	-89.76	-65.08	-68
147.17	-161.74	-114.98	-91.04	-67	-71.2
147.62	-164.94	-116.9	-96.8	-70.2	-75.04
148.12	-67.02	-60.58	-96.16	-71.48	-77.6
148.58	-87.5	-73.38	-92.32	-75.96	-81.44
149.08	-107.34	-81.06	-85.28	-74.04	-84
149.54	-118.22	-93.86	-91.68	-74.68	-87.2
150.04	-135.5	-98.34	-91.68	-73.4	-89.12
150.50	-141.9	-113.7	-101.92	-76.6	-91.68
151.00	-160.46	-113.7	-100	-75.32	-92.96
151.46	-48.46	-38.18	-41.12	-31.16	-23.89
151.96	-72.78	-55.46	-52	-39.48	-35.36
152.42	-83.66	-70.82	-63.52	-46.52	-41.76
152.92	-60.62	-42.02	-52.64	-49.08	-46.24
153.37	-74.06	-59.94	-60.32	-50.36	-50.72
153.87	-93.26	-68.9	-64.16	-51.64	-53.28
154.33	-97.74	-79.78	-70.56	-54.2	-55.84
154.83	-114.38	-84.26	-75.04	-56.76	-59.04
155.29	-124.62	-94.5	-79.52	-59.32	-60.96
155.79	-138.06	-99.62	-84.64		-64.8
156.25	-146.38	-108.58	-88.48	-63.8	-68
156.75	-155.98	-111.78	-92.96	-66.36	-70.56
157.21	-168.14	-121.38	-96.8	-68.92	-74.4
157.71	-172.62	-127.78	-103.2	-72.12	-78.24
158.17	-160.46	-58.02	-104.48		-80.8
158.67	-48.46	-34.34	-37.28		-80.8
159.12	5.22	8.46	8.08		
159.62	-54.3	-38.9	-45.04		
160.08	-72.38	-55.7	-53.52		-22.2
160.58	-87.82	-69.86	-70.24		-29.92
161.04	-98.38	-76.58	-71.2		-44.96
161.54	-124.62	-87.46	-75.68		-50.08
162.00	-124.06	-88.82	-76.4		-55.28
162.50	-103.5	-82.34	-83.36		-59.68
162.96	-75.34	-56.74	-75.68		-63.52
163.46	-90.7	-71.46	-76.32		-68
163.92	-105.5	-77.3	-75.12		-70
164.42	-118.3	-93.94	-84.08		-72.56
164.87	-131.1	-95.22	-84.72		-73.84
165.37	-62.62	-42.74	-65.52		-76.4
165.83	-79.9	-56.82	-59.76		-77.68
166.33	-84.38	-67.06	-64.24		-78.32
166.79	-93.34	-71.54	-67.44		-76.4

167.29	-101.66	-81.14	-72.56		-76.4
167.75	-113.18	-84.98	-77.04		-77.04
168.25	-128.54	-95.86	-82.16		-78.32
168.71	-139.34	-101.54	-87.2		-79.52
169.21	-155.42	-111.86	-90.48		-80.88
169.67	-150.94	-117.62	-96.24		-83.44
170.17	-93.34	-38.26	-98.8		-84.72
170.62	-42.14	-26.74	-30.32		-87.28
171.12	-65.82	-51.06	-45.68		-77.68
171.58	-81.1	-63.78	-57.12		-53.92
172.08	-94.62	-73.46	-61.68		-48.24
172.54	-70.3	-68.98	-68.72		-49.52
173.04	-87.58	-72.82	-68.72		-52.08
173.50	-97.82	-82.42	-75.12		-55.92
174.00	-112.54	-86.26	-75.12		-58.48
174.46	-86.3	-78.58	-79.6		-62.32
174.96	-55.58	-24.19	-78.32		-65.52
175.42	-35.1	-26.74	-27.76		-16.89
175.92	-64.54	-51.7	-46.96		-30.32
176.37	-77.34	-65.78	-57.84		-38.64
176.87	-95.9	-72.18	-62.32		-43.76
177.33	-106.14	-84.98	-70		-48.88
177.83	-122.14	-89.46	-74.48		-52.72
178.29	-135.58	-100.98	-79.6		-56.56
178.79	-120.22	-104.82	-85.36		-61.04
179.25	-52.38	-37.62	-80.24		-64.24
179.75	-78.62	-51.7	-61.68		-63.6
180.21	-92.06	-67.06	-64.88		-57.84
180.71	-106.14	-77.3	-71.92		-59.12
181.17	-118.94	-86.9	-75.76		-62.32
181.67	-133.02	-97.14	-84.08		-66.8
182.12	-142.62	-103.54	-86.64		-68.72
182.62	-51.1	-35.7	-50.16		-73.2
183.08	-57.5	-47.22	-46.32		-69.36
183.58	-77.34	-60.66	-54.64		-59.76
184.04	-86.3	-68.34	-57.84		-53.36
184.54	-101.02	-81.14	-69.36		-55.92
185.00	-113.82	-86.9	-71.92		-57.2
185.50	-62.62	-80.5	-78.32		-61.04
185.96	-91.42	-77.3	-77.04		-64.88
186.46	-106.78	-91.38	-82.8		-70
186.92	-122.78	-93.94	-82.8		-73.2
187.42	-134.3	-105.46	-87.92		-76.4
187.87	-84.38	-80.5	-89.2		-77.68
188.37	-99.74	-76.66	-87.92		-81.52
188.83	-120.22	-81.14	-86.64		-83.44
189.33	-31.9	-18.43	-86.64		-84.08
189.79	-65.82	-45.94	-50.8		-85.36

190.29	-76.06	-60.66	-55.92		-75.12
190.75	-91.42	-68.34	-61.68		-67.44
191.25	-51.74	-48.5	-62.32		-63.6
191.71	-81.82	-57.46	-58.48		-62.96
192.21	-95.26	-72.18	-63.6		-58.48
192.67	-110.62	-81.14	-71.28		-58.48
193.17	-113.18	-87.54	-74.48		-59.76
193.62	-51.1	-30.58	-79.6		-62.96
194.12	-65.82	-50.42	-59.76		-66.16
194.58	-39.58	-31.22	-37.36		-68.72
195.08	-61.98	-49.78	-45.04		-60.4
195.54	-86.3	-65.14	-56.56		-48.24
196.04	-94.62	-72.18	-60.4		-45.04
196.50	-115.74	-85.62	-70.64		-46.96
213.96	-688.7	-366.74	-194.16		-140.4
214.42	-718.78	-359.06	-199.92		-142.96
214.92	-758.46	-400.02	-205.04		-144.88
215.37	-768.7	-384.02	-210.16		-146.8
215.87	-780.22	-432.02	-215.92		-148.72
216.33	-789.18	-416.02	-221.04		-150.64
216.83	-788.54	-459.54	-227.44		-153.2
217.29	-625.34	-449.3	-231.28		-155.12
217.79	-659.9	-485.78	-237.68		-158.32
218.25	-713.02	-483.86	-242.16		-159.6
218.75	-748.86	-508.18	-249.2		-163.44
219.21	-766.78	-515.22	-254.32		-164.08
219.71	-769.98	-530.58	-260.08		-167.28
220.17	-778.3	-541.46	-265.2		-167.28
220.67	10.33	-555.54	-270.96		-171.12
221.12	15.44	-568.34	-278		-171.76
221.62	9.05	-581.14	-283.12		-175.6
222.08	15.44	-589.46	-290.16		-175.6
222.58	10.33	-599.06	-295.92		-178.16
223.04	16.08	-607.38	-303.6		-178.16
223.54	6.49	-616.98	-308.72		-182
224.00	14.8	-620.18	-314		-182
224.50	-199.58				-183.92
224.96	-445.5	-690.58	-325.52		-183.92
225.46	-503.74	-695.06	-332.56		-187.12
225.92	-547.26	-714.9	-337.04		-187.12
226.42	-561.34	-719.38	-346		-189.68
226.87	14.8	-725.78	-350.48		-190.96
227.37	10.33	-731.54	-356.88		-192.88
227.83	-662.46	-732.18	-360.08	-182.28	-194.8
228.33	-728.38	-739.86	-369.04	-186.76	-195.44
228.79	-750.14	-739.22	-370.96	-189.96	-197.36
328.00	-104.78	-44.58	-632.7		
328.43	-154.06	-75.3	-117.92		

328.96	-227.02	-96.42	-122.4		
329.42	-240.46	-111.78	-78.88		
329.92	-289.1	-127.78	-205.6		
330.38	-314.06	-147.62	-84.64		
330.88	-364.9	-164.26	-176.16		
331.34	-388.5	-185.46	-151.92		
331.84	-379.6	-205.94	-242.16	-426.9	-450.3
332.29	-434.6	-222.58	-174.32	-444.2	-463.1
332.79	-437.2	-250.66	-174.24	-426.3	-458.6
333.25	-476.2	-262.9	-172.4	-410.9	-460.6
333.75	-466.6	-292.9	-171.04	-393.6	-459.9
334.21	-503.1	-302.58	-171.76	-382.8	-459.9
334.71	-492.9	-324.5	-171.68	-366.8	-456.1
335.17	-526.8	-338.6	-171.12	-358.4	-455.4
335.67		-361.6	-319.8	-427.6	-458
336.13		-370.6	-262	-457.6	-461.2
336.63	-546	-389.1	-256.24	-455.7	-461.2
337.09	-569.7	-396.2	-56.56	-452.5	-465.7
337.59	-553.7	-401.9	-128.16	-449.3	-463.1
338.04	-572.9	-400	-199.28	-449.3	-465.7
338.54			-312.7		
339.00	-427.6	-375.1	-452.2	-432.7	-465
339.50	-282.14	-288.5	-509.8	-434	-467
339.96	-358.5	-243.06	-532.2	-430.8	-464.4
340.46	-325.8	-234.74	-548.2	-425.6	-468.2
340.92	-378.9	-231.54	-550.2	-424.4	-462.5
341.42	-397.5	-247.54	-558.5	-416	-469.5
341.88	-438.5	-265.46	-554.6	-414.8	-461.2
342.38	-460.9	-280.18	-560.4	-410.9	-468.2
342.84	-474.9	-313	-552.7	-407.1	-461.2
343.34	-506.3	-325.8	-558.5	-405.2	-468.9
343.79	-572.9	-362.3	-358.2		-459.9
344.29	-599.1	-377	-360.1	-394.3	-466.3
344.75	-606.8	-403.9	-359.4	-394.3	-459.9
345.25	-631.7	-413.5	-358.2	-392.4	-468.2
345.71	-618.9	-426.9	-359.4	-392.4	-461.8
346.21	-640.7	-436.5	-310.64	-393	-467.6
346.67	-613.8	-441.6	-299.76	-390.4	-465
347.17	-645.2	-458.3	-296.56	-389.2	-468.2
347.63	-635.6	-463.4	-295.92	-387.2	-464.4
348.13	-658.6	-481.3	-297.2	-387.2	-467.6
348.59		-448.7	-356.9		-467.6
349.09	-674.6	-13.32	-493.2	-387.9	-472.7
349.54	-179.1	-56.82	-165.36	-390.4	-472.1
350.04	-278.94	-74.74	-121.84	-390.4	-467
350.50	-289.82	-93.94	-128.24	-392.4	-469.5
351.00	-342.5	-102.9	-129.52	-391.7	-458.6
351.46	-364.2	-116.34	-137.84	-389.2	-462.5

351.96	-187.42	-40.18	-55.92	-386.6	-460.6
352.42	-150.94	-63.22	-72.56	-385.3	-461.8
352.92	-204.7	-77.3	-80.88		
353.38	-225.18	-90.1	-93.04	-366.1	-458
353.88	-165.02	-68.98	-96.88	-356.5	-450.3
354.34	-5.04	2.68	15.1	-345	-459.3
354.84	-49.82	-36.98	-38	-48.52	-280.56
355.29	-69.66	-53.62	-51.44	-44.68	-190.32
355.79	-95.9	-67.7	-61.04	-44.04	
356.25	-106.14	-77.3	-68.08	-48.52	
356.75	-31.9	-20.36	-23.94	-15.26	-30.32
357.21	-10.81	-2.45	-45.68	-34.44	-25.23
357.71	-24.24	-13.32	-34.8	-17.82	-20.74
358.17	-47.26	-37.62	-36.08	-25.51	-18.19
358.67	-77.34	-56.82	-52.08	-38.92	-30.96

Logged tensiometer data, year 2, unamended control

day cont	C15 cont	C30cont	C60cont	C120cont	C200cont
541.80	-40.28	-35.66	-33.48	-24.74	-23.34
542.30	-42.2	-33.74	-34.12	-26.66	-24.62
542.76	-56.28	-36.94	-35.4	-28.54	-25.25
543.26	-60.76	-43.34	-36.68	-30.46	-25.9
543.72	-77.4	-47.18	-39.88	-32.38	-27.14
544.22	-81.24	-52.94	-41.8	-33.66	-28.42
544.68	-100.44	-56.14	-44.36	-34.94	-29.06
545.18	-104.28	-62.54	-47.56	-36.86	-30.98
545.64	-133.72	-68.3	-52.04	-38.78	-32.9
546.14	-135.64	-70.86	-52.04	-39.42	-32.9
546.60	-168.28	-78.54	-57.8	-41.34	-34.82
547.10	-174.04	-81.1	-58.44	-42.62	-36.1
547.55	-206.04	-88.78	-63.56	-44.54	-38.02
548.05	-224.6	-90.06	-64.2	-45.18	-38.02
548.51	-239.96	-100.3	-68.68	-46.46	-40.58
549.05	-287.32	-99.66	-70.6	-47.1	-40.58
549.50	-310.36	-109.26	-75.72	-49.66	-43.14
550.00	-350.84	-109.26	-77.64	-50.94	-43.14
550.46	-348.28	-118.86	-81.48	-53.5	-45.7
550.96	-373.24	-119.5	-84.68	-54.14	-45.7
551.42	-375.16	-125.9	-85.96	-56.06	-47.62
551.92	-386.68	-130.38	-90.44	-57.34	-48.9
554.76		-152.14		-65.02	-56.58
555.26	-53.72	-0.5	-110.28	-66.94	-58.5
555.72	-42.84	-20.34	-52.68	-68.22	-39.94
556.22	-45.4	-29.26	-39.88	-68.86	-22.71
556.68	-67.16	-35.02	-39.24	-68.22	-21.41

557.18	-66.52	-40.78	-37.96	-63.74	-22.06
557.64	-94.68	-47.18	-42.44	-59.26	-23.33
558.14	-92.12	-51.66	-42.44	-53.5	-23.98
558.60	-53.72	-43.34	-45	-50.94	-25.9
559.10	-31.32	-24.18	-37.96	-48.38	-26.54
559.55	-42.84	-29.26	-34.12	-47.74	-23.98
560.05	-44.76	-33.1	-32.2	-45.82	-21.42
560.51	-56.28	-38.86	-35.4	-45.82	-22.06
561.01	-46.04	-36.94	-34.76	-43.26	-22.06
561.47	-19.2	-12.02	-21.36	-41.98	-22.7
561.97	-28.8	-21.62	-19.44	-40.06	-13.74
562.43	-37.72	-27.98	-23.28	-36.22	-15.02
569.21	-65.24	-45.26	-39.88	-36.22	-26.54
569.67	-93.4	-51.02	-45	-37.5	-29.06
570.17	-91.48	-56.14	-46.28	-38.14	-29.7
570.63	-106.84	-59.98	-48.84	-38.14	-30.34
571.13	-108.12	-64.46	-50.76	-39.42	-31.62
571.59	-124.12	-67.66	-53.32	-40.7	-32.26
572.09	-35.16	-22.26	-41.8	-41.98	-32.9
572.55	-46.04	-29.9	-36.04	-43.26	-28.42
573.05	-51.16	-33.74	-32.84	-43.26	-23.98
573.50	-60.76	-41.42	-37.32	-42.62	-24.61
574.00	-69.08	-44.62	-37.32	-40.7	-23.98
574.46	-78.68	-52.94	-42.44	-39.42	-26.53
574.96	-84.44	-53.58	-43.08	-38.14	-27.14
575.42	-90.84	-61.9	-48.2	-38.78	-29.7
575.92	-106.2	-62.54	-48.84	-38.78	-30.34
576.38	-110.68	-69.58	-52.68	-40.7	-32.26
576.88	-133.72	-71.5	-55.24	-41.34	-33.54
577.34	-137.56	-77.9	-57.16	-43.26	-35.46
577.84	-161.24	-81.74	-60.36	-44.54	-36.74
578.30	-165.08	-87.5	-62.28	-45.82	-38.02
578.80	-187.48	-91.34	-65.48	-47.1	-39.3
579.25	-193.24	-97.1	-66.76	-47.74	-40.58
579.75	-206.68	-102.22	-70.6	-50.94	-41.86
580.21	-219.48	-107.34	-71.88	-51.58	-43.14
580.71	-222.04	-112.46	-75.08	-53.5	-44.42
581.17	-239.96	-116.94	-76.36	-54.78	-45.7
581.67	-233.56	-123.98	-80.84	-56.7	-47.62
582.13	-255.96	-125.9	-80.84	-57.98	-48.26
582.63		-132.94		-59.9	-50.82
583.10	-259.16	-135.5	-85.96	-61.18	-51.46
583.60	-271.32	-141.26	-87.88	-62.46	-52.74
584.05	-128.6	-75.98	-87.88	-63.1	-54.02
584.55	-90.2	-56.78	-80.84	-65.02	-55.94
585.01	-102.36	-58.06	-71.88	-65.66	-54.02
585.51	-101.08	-67.02	-69.32	-67.58	-53.38

585.97	-113.88	-68.94	-65.48	-68.22	-50.82
586.47	-119	-78.54	-66.76	-70.78	-51.46
586.93	-127.96	-80.46	-65.48	-71.42	-50.18
587.43	-133.72	-90.06	-67.4	-72.7	-51.46
587.89	-142.04	-91.98	-68.04	-73.34	-51.46
588.39	-148.44	-98.38	-69.32	-73.98	-53.38
588.85	-148.44	-100.3	-70.6	-73.98	-54.02
589.35	-158.68	-105.42	-73.16	-74.62	-55.3
589.80	-157.4	-107.98	-73.8	-75.26	-55.94
590.30	-171.48	-113.74	-76.36	-76.54	-56.58
590.76	-169.56	-117.58	-78.28	-76.54	-57.86
591.26	-187.48	-122.7	-80.84	-77.82	-58.5
591.72	-179.16	-129.1	-83.4	-79.1	-60.42
592.22	-201.56	-132.94	-84.68	-79.1	-60.42
592.68	-188.76	-139.34	-88.52	-80.38	-62.34
593.18	-215.64	-142.54	-88.52	-81.02	-62.98
593.64	-205.4	-149.58	-92.36	-82.3	-64.9
594.14	-230.36	-152.14	-92.36	-82.3	-64.9

HYDRUS data, unamended control, and rain

model time	C15	C30	C60	C120	C200	rain time	rain
14.72	-11.34	-33.17	-89.73	-70.36	-64.21	23	-2.7346
17.25	-82.62	-64.55	-51.52	-58.62	-66.91	35	-6.661
19.25	-92.01	-88.57	-69.9	-58.06	-63.27	46	-6.661
22.00	-120.37	-94.96	-76.47	-64.88	-60.96	58	-0.7714
24.50	-105.65	-88.86	-81.27	-70.4	-63.63	69	-4.0434
26.75	-32.59	-64.22	-90.9	-74.62	-67.1	81	-0.7714
29.00	-72.58	-57.84	-53.08	-73.23	-70.68	92	-9.2786
30.75	-27.53	-24.87	-22.19	-48.09	-71.88	104	-0.7714
32.75	-18.24	-19.96	-24.45	-31.86	-53.14	115	-7.3154
35.17	-50.98	-46.28	-38.8	-30.68	-29.77	127	0
37.50	-42.42	-34.52	-31.96	-38.28	-34.72	138	-0.4
39.62	-12.37	-27.32	-53.46	-40.71	-37.08	150	-44.6162
42.00	-58.39	-47.8	-37.09	-30.76	-35.25	161	-11.8962
45.00	-156.08	-105.01	-70.73	-46.93	-38.08	173	-12.5506
45.90	-1.42	-1.42	-2.63	-51.97	-41.52	184	-8.6242
47.75	-17.33	-19.11	-22.84	-23.14	-25.37	196	-12.5506
50.00	-58.94	-45.85	-33.85	-24.95	-22.34	207	0
52.50	-56.6	-48.75	-43.76	-38.11	-32.23	219	-12
55.25	-103.6	-85.93	-67.03	-48.59	-40.78	230	-8
56.75	-2.01	-2.3	-31.74	-55.87	-45.67	242	0
58.75	-45.07	-35.36	-25.61	-19.14	-28.23	253	0
61.50	-125.71	-91.53	-64	-41.06	-31.36	265	0
63.17	-32.55	-114.97	-82.13	-52.26	-39.95	332	0
63.50	-0.47	-0.47	-47.8	-54.33	-41.57	344	0
63.71	-0.48	-0.47	-0.48	-55.62	-42.58	355	0

63.90	-0.47	-0.49	-0.46	-10.45	-43.45	367	-17.7858
64.50	-27.95	-22.75	-16.34	-10.31	-9.82	378	0
67.25	-90.67	-72.28	-53.62	-35.58	-27.12	390	-18.4402
69.75	-110.78	-102.29	-78.84	-52.11	-40.18	401	-2.0802
72.25	-164.16	-134.68	-104.51	-67.55	-51.31	413	-10
73.09	-9.1	-114.82	-111.82	-72.29	-54.9	424	-11.2
73.12	-1.75	-105.98	-112.02	-72.43	-55.01	436	-19.0946
73.14	-0.32	-77.37	-112.17	-72.54	-55.1	447	-12.4
73.16	-0.15	-38.16	-112.33	-72.65	-55.19	459	0
73.18	-0.16	-17.72	-112.46	-72.75	-55.27	470	-26.94
73.20	-0.17	-7.06	-112.6	-72.86	-55.35	482	-0.2
73.21	-0.1	-2.51	-112.72	-72.96	-55.43	493	-8.61
73.23	-0.18	-0.56	-112.85	-73.07	-55.51	505	0
73.25	-0.12	-0.17	-112.94	-73.17	-55.59	516	0
73.27	-0.15	-0.13	-112.95	-73.27	-55.67	528	-16.2
73.29	-0.13	-0.14	-112.46	-73.37	-55.75	539	-5.8
73.31	-0.15	-0.13	-108.93	-73.48	-55.83	551	-0.8
73.33	-0.12	-0.14	-94.33	-73.58	-55.91	562	-3.8
73.35	-0.17	-0.13	-58.83	-73.69	-55.99	574	0
73.37	-0.15	-0.12	-29.62	-73.79	-56.07	585	0
73.98	-0.17	-0.13	-0.14	-0.14	-58.38		
74.00	-0.11	-0.14	-0.14	-0.14	-56.99		
75.00	-46.27	-37.31	-26.8	-16.78	-12.21		
77.25	-23.33	-25.77	-26.1	-23.65	-23.65		
79.75	-54.06	-49.79	-41.48	-30.1	-25.55		
82.00	-44.99	-37.04	-27.93	-23.57	-31.53		
84.01	-45.98	-50.33	-50.37	-37.42	-29.94		
86.25	-35.76	-31.86	-31.73	-40.19	-39.28		
88.50	-48.3	-59.04	-55.25	-43.1	-39.67		
91.01	-73.66	-64.78	-58.24	-52.03	-45.25		
93.00	-25.41	-25.04	-26.15	-46.09	-50.05		
95.50	-26.41	-31.03	-40.51	-42.36	-42.94		
98.00	-25.11	-25.26	-26.03	-31.85	-39.98		
100.75	-82.85	-69.95	-55.19	-40.29	-34.67		
103.04	-118.33	-98.13	-76.3	-53.03	-42.47		
105.25	-50.54	-44.25	-38.27	-51.13	-50.88		
107.25	-15.23	-16.25	-24.73	-47.64	-50.62		
109.50	-42.02	-44.42	-38.15	-29.52	-36.8		
111.61	-42.23	-31.2	-21.05	-16.16	-30.04		
113.75	-42.51	-32.71	-22.69	-14.81	-14.96		
115.83	-70.83	-67.88	-52.41	-34.08	-25.86		
118.50	-123.07	-99.97	-72.42	-50.05	-39.66		
121.00	-129.34	-102.63	-85.17	-61.84	-49.66		
123.25	-95.21	-81.68	-80.47	-70.03	-57.49		
125.75	-141.77	-112.85	-90.88	-74.6	-64.63		
128.08	-154.24	-124.73	-102.72	-79.75	-69.67		
130.25	-90.92	-78.29	-84.18	-85.03	-73.95		
132.75	-111.21	-109.27	-92.17	-85.37	-78.61		

135.00	-114.57	-100.99	-94.91	-86.77	-81.43		
137.75	-206.64	-141.76	-106.14	-89.49	-83.95		
140.25	-277.09	-177.82	-122.34	-93.77	-86.19		
141.26	-104.99	-190.54	-128.76	-96.02	-87.24		
141.71	-0.51	-0.57	-124.07	-97.07	-87.73		
141.98	-0.51	-0.52	-0.57	-97.73	-88.04		
143.75	-74.7	-54.31	-38.88	-40.66	-88.18		
146.25	-156.91	-103.83	-68.36	-49.78	-57.6		
149.00	-150.96	-108.63	-81.98	-61.75	-54.08		
150.75	-5.2	-16.26	-90.79	-67.59	-57.81		
153.00	-75.6	-54.83	-40.77	-46.62	-61.9		
155.50	-104.82	-76.95	-58.07	-48.65	-51.38		
157.07	-158.28	-105.37	-72.31	-53.58	-49.99		
157.15	-36.23	-106.84	-73.08	-53.88	-50.03		
157.16	-24.67	-106.96	-73.15	-53.91	-50.03		
157.98	-0.07	-0.07	-0.07	-0.07	-0.07		
157.98	-0.08	-0.07	-0.07	-0.07	-0.07		
157.99	-0.05	-0.07	-0.07	-0.07	-0.07		
158.00	-0.06	-0.07	-0.07	-0.07	-0.07		
158.89	-0.23	-0.23	-0.25	-0.25	-0.25		
158.95	-0.26	-0.27	-0.26	-0.25	-0.25		
159.01	-2.72	-1.34	-0.64	-0.35	-0.26		
161.17	-74.94	-61.24	-43.24	-28.02	-21.21		
163.25	-72.95	-64.47	-51.28	-40.34	-32.89		
165.75	-69	-60.38	-53.71	-47.75	-41.79		
168.04	-142.81	-98.61	-70.33	-53.26	-47.07		
170.00	-6.65	-10.61	-54.36	-60.66	-51.55		
172.25	-59.54	-54.9	-49.82	-50.25	-55.85		
174.30	-2.27	-5.58	-51.19	-52.3	-52.86		
176.00	-58.01	-42.06	-28.11	-17.41	-14.14		
178.25	-43.54	-44.64	-50.04	-37.06	-28.39		
181.00	-110.76	-86.31	-64.19	-47.69	-40.28		
183.00	-60.6	-46.34	-37.76	-49.25	-46.52		
185.50	-75.64	-66.19	-60.19	-49.06	-47		
188.00	-97.75	-81.63	-71.35	-57.56	-50.25		
189.56	-31.56	-28.96	-34.46	-61.59	-53.82		
192.42	-106.45	-81.75	-61.4	-50.93	-54.48		
194.00	-3.26	-3.55	-14.35	-56.77	-52.89		
196.25	-65.6	-63.21	-48.6	-38.45	-46.88		
199.00	-98.01	-77.79	-61.59	-49.26	-43.69		
201.50	-63.98	-67.11	-80.22	-61	-50.03		
204.00	-128.51	-106.88	-90.02	-70.58	-57.98		
207.00	-207.54	-161.63	-124.6	-83.55	-66.93		
209.75	-303.83	-226.16	-165.85	-98.76	-75.57		
212.25	-411.49	-293.55	-207.51	-113.25	-84.02		
214.50	-336.58	-328.64	-242.23	-125.94	-91.88		
216.75	-398.45	-371.59	-280.9	-138.18	-99.76		
219.13	-379.36	-397.81	-328.81	-151.9	-108.01		

221.50	-256.78	-356.21	-380.85	-165.58	-116.13		
223.75	-314.73	-392.63	-422.11	-177.98	-123.79		
226.10	-341.37	-408.54	-478.94	-191.5	-131.66		
228.50	-279.14	-399.78	-547.3	-205.63	-139.66		
329.50	-46.32	-44.72	-166.81	-499.26	-452.24		
332.00	-172.25	-129.36	-150.12	-502.96	-455.98		
334.50	-307.78	-205.31	-186.27	-484.67	-458.69		
337.00	-406.42	-266.01	-219.6	-439.83	-461.06		
339.25	-325.25	-287.95	-245.51	-406.57	-463.08		
341.86	-291.67	-257.92	-262.31	-383.04	-464.76		
344.50	-447.4	-312.09	-271.75	-370.01	-465.09		
346.50	-501.24	-351.17	-284.95	-363.84	-464.13		
349.01	-576.92	-388.6	-303.24	-358.88	-461.36		
351.00	-59.5	-200.18	-317.39	-356.69	-458.27		
353.30	-230.02	-199.25	-270.85	-355.76	-453.58		
354.30	-1.86	-106.19	-260.29	-355.63	-451.29		
354.42	-0.28	-8.34	-259.7	-355.61	-451.01		
354.50	-0.31	-0.87	-259.19	-355.6	-450.81		
354.59	-0.36	-0.35	-243.25	-355.58	-450.59		
354.67	-0.32	-0.33	-84.57	-355.56	-450.4		
354.75	-0.31	-0.31	-17.49	-355.54	-450.2		
354.84	-0.32	-0.36	-2.93	-355.52	-449.99		
354.93	-0.34	-0.34	-0.4	-355.49	-449.78		
355.06	-11.61	-7.12	-4.65	-355.45	-449.46		
357.00	-7.5	-8.57	-18.02	-168.38	-444.55		
358.50	-38.92	-28.39	-18.6	-16.34	-440.58		
361.01	-110.06	-81.5	-57.09	-44.47	-224.27		
363.50	-105.84	-83.21	-66.39	-59.16	-78.86		
364.75	-1.01	-1.01	-1.16	-62.87	-68.85		
366.01	-57.14	-42.66	-28.96	-19.05	-33.57		
368.25	-1.63	-1.61	-1.69	-25.15	-28.15		
369.50	-37.04	-27.37	-18.06	-10.7	-7.46		
372.00	-40.43	-41.38	-40.84	-33.53	-27.05		
374.50	-55.69	-47.47	-38.02	-32.12	-32.87		
376.75	-7.35	-11	-34.25	-42.08	-36.12		
379.25	-73.1	-65.08	-47.83	-33.85	-31.72		
382.25	-124.69	-89.45	-64.85	-48.26	-40.95		
384.25	-211.64	-133.65	-86.71	-58.04	-47.89		
385.50	-0.82	-1.11	-81.33	-64.57	-52.48		
386.09	-9.38	-7.36	-4.9	-13.23	-54.72		
388.50	-44.36	-33.7	-24.65	-18.74	-16.6		
390.00	-2.79	-2.78	-2.79	-3.47	-23.43		
392.75	-57.02	-45.74	-34.24	-23.89	-18.86		
394.88	-26.68	-28.06	-31.76	-34.93	-30.65		
397.75	-94.26	-74.75	-56.99	-41.88	-36.18		
399.50	-3.13	-17.48	-73.6	-51.42	-42.24		
401.50	-36.94	-29.19	-21.48	-16.72	-23.35		
403.75	-78.02	-70.31	-53.36	-35.22	-27.35		

405.50	-22	-19.3	-15.13	-12.3	-33.38		
408.00	-69.21	-53.5	-39.68	-28.64	-23.62		
410.25	-32.01	-27.61	-26.42	-32.87	-33.36		
412.55	-41.68	-55.87	-53.98	-39.04	-33.81		
415.00	-28.99	-30.12	-33.34	-40.57	-40.95		
417.50	-64.01	-57.83	-46.17	-37.11	-37.52		
419.11	-4.78	-57.47	-56.72	-44.96	-38.92		
419.15	-0.23	-16.2	-56.94	-45.18	-39.05		
419.20	-0.22	-0.55	-56.98	-45.38	-39.17		
419.23	-0.17	-0.22	-54.05	-45.56	-39.27		
419.27	-0.2	-0.2	-26.18	-45.73	-39.37		
419.31	-0.21	-0.2	-2.44	-45.9	-39.48		
419.35	-0.26	-0.2	-0.2	-46.09	-39.6		
419.39	-0.2	-0.2	-0.2	-46.27	-39.71		
419.43	-0.17	-0.19	-0.21	-46.4	-39.83		
419.47	-0.18	-0.23	-0.21	-45.01	-39.94		
419.51	-0.24	-0.2	-0.21	-22.95	-40.05		
419.54	-0.22	-0.21	-0.21	-1.08	-40.17		
419.59	-0.24	-0.19	-0.21	-0.21	-40.29		
419.62	-0.2	-0.21	-0.21	-0.21	-40.41		
419.66	-0.18	-0.2	-0.21	-0.21	-40.53		
419.70	-0.19	-0.21	-0.21	-0.21	-40.34		
419.74	-0.19	-0.23	-0.21	-0.21	-26.58		
419.78	-0.2	-0.2	-0.21	-0.21	-0.21		
419.82	-0.24	-0.2	-0.2	-0.21	-0.21		
419.86	-0.2	-0.22	-0.21	-0.21	-0.21		
419.90	-0.2	-0.19	-0.21	-0.21	-0.21		
419.94	-0.21	-0.19	-0.21	-0.21	-0.21		
419.98	-0.19	-0.2	-0.21	-0.21	-0.21		
420.25	-23.86	-17.43	-11.16	-6.35	-4.27		
423.00	-87.59	-71.57	-54.56	-36.31	-27.44		
425.00	-36.4	-47.94	-64.06	-50.86	-39.35		
426.25	-23.19	-17.14	-11.09	-6.43	-32.49		
428.50	-54.69	-48.24	-41.25	-30.84	-23.98		
431.00	-98.43	-86.69	-69.73	-47.85	-37.4		
432.25	-3.49	-3.49	-3.5	-13.09	-43.7		
434.33	-1.37	-1.53	-15.17	-21.14	-15.41		
435.50	-33.34	-25.77	-17.48	-10.54	-7.38		
437.50	-23.83	-21.49	-18.65	-21.56	-23.4		
439.75	-39.73	-34.04	-27	-22.37	-22.64		
442.25	-82.99	-75.53	-63.52	-42.9	-32.59		
444.50	-62.81	-99.32	-90.23	-59.9	-45.26		
446.50	-8.01	-7.98	-7.93	-16.89	-55.25		
448.75	-47.07	-37.7	-27.39	-18.44	-15		
451.02	-80.57	-72.25	-59.07	-40.41	-30.54		
453.50	-95.8	-83.95	-73.74	-56.34	-44.13		
456.25	-70.65	-76.23	-87.61	-70.54	-56.24		
458.75	-93.34	-89.1	-92.57	-79.95	-65.85		

461.25	-82.85	-114.63	-110.11	-87.95	-73.85		
463.75	-97.31	-86.89	-87.82	-95.16	-80.98		
466.00	-61.73	-52.61	-54	-91.77	-86.48		
468.50	-128.51	-109.65	-86.27	-81.26	-87.86		
469.88	-1.35	-1.29	-1.98	-83.8	-86.2		
471.75	-38.66	-31.39	-22.65	-14.89	-23.62		
474.50	-58.66	-49.27	-42.18	-34.63	-28.93		
477.00	-134.1	-99.67	-70.36	-47.92	-39.02		
477.53	-0.6	-0.58	-27.59	-51.05	-41.24		
477.77	-0.59	-0.62	-0.62	-51.9	-42.26		
478.11	-15.53	-10.57	-6.25	-3.38	-43.35		
480.07	-79.65	-62.49	-43.32	-27.91	-21.05		
481.25	-22.49	-16.82	-10.99	-6.33	-4.27		
483.75	-97.34	-71.24	-49.53	-32.39	-24.92		
486.50	-155.85	-109.39	-77.13	-51.48	-40.35		
488.50	-124.27	-119.02	-95.08	-62.66	-49.74		
490.75	-94.36	-83.42	-90.08	-73.25	-59.11		
493.11	-194.02	-134.17	-99.07	-78.75	-67.35		
495.39	-129.93	-147.93	-114.19	-84.79	-73.37		
498.00	-118.43	-94.28	-88.72	-90.68	-79.63		
500.00	-48.69	-88.45	-102.15	-90.25	-83.75		
502.50	-102.78	-86.58	-79.22	-89.61	-86.89		
505.50	-209.29	-139.97	-101.95	-87.84	-87.94		
507.09	-281.7	-174.4	-117.26	-91.11	-87.89		
509.00	-55.16	-62.11	-95.97	-96.82	-88.84		
511.50	-106.61	-80.33	-70.23	-92.01	-91.84		
513.75	-49.81	-95.93	-95.24	-86.2	-92.13		
515.63	-16.59	-34.83	-76.8	-87.82	-90.28		
518.25	-46.18	-42.51	-47.26	-65.35	-87.57		
521.00	-137.21	-100.3	-73.88	-62.68	-73.2		
523.50	-108.99	-85.84	-74.05	-70.25	-67.58		
525.75	-43.59	-85.83	-95.65	-74.99	-69.14		
528.04	-43.81	-58.88	-77.95	-80	-72.6		
530.50	-86.83	-67.43	-55.83	-69.6	-75.97		
533.02	-167.7	-121.72	-88.72	-70.55	-72.56		
534.38	-4.8	-4.81	-5.17	-59.62	-71.46		
536.75	-11.17	-11.22	-11.45	-12.12	-12.4		
537.01	-8.17	-11.14	-11.25	-11.7	-12.17		
538.75	-47.67	-35.9	-24.01	-14.34	-10.18		
539.00	-56.37	-42.91	-29.31	-17.63	-12.64		
539.03	-57.34	-43.73	-29.95	-18	-12.91		
539.25	-57.59	-48.43	-34.47	-20.83	-14.97		
539.50	-56.44	-50.89	-38.74	-23.87	-17.18		
539.75	-56.06	-52.37	-42.16	-26.72	-19.28		
540.00	-56.12	-53.55	-45.01	-29.37	-21.32		
540.00	-56.1	-53.55	-45.06	-29.42	-21.35		
540.25	-51.04	-52.56	-46.54	-31.74	-23.29		
540.50	-46.6	-49.86	-47.33	-33.74	-25.15		

540.75	-43.59	-47.16	-47.36	-35.48	-26.89		
541.00	-41.41	-44.87	-46.86	-37.01	-28.53		
541.25	-50.48	-47.15	-46.95	-38.36	-30.06		
541.38	-55.71	-49.81	-47.6	-39.06	-30.82		
541.50	-60.27	-52.49	-48.43	-39.7	-31.49		
541.75	-69.02	-58.27	-50.76	-41	-32.83		
542.00	-77.15	-64	-53.59	-42.31	-34.1		
542.25	-84.74	-69.63	-56.75	-43.66	-35.31		
542.50	-92.05	-75.15	-60.1	-45.08	-36.49		
542.75	-99.21	-80.54	-63.53	-46.57	-37.62		
543.00	-106.28	-85.86	-66.99	-48.11	-38.74		
543.25	-112.87	-91.08	-70.48	-49.72	-39.86		
543.50	-119.13	-96.18	-73.98	-51.36	-40.97		
543.75	-125.34	-101.16	-77.48	-53.04	-42.09		
544.00	-131.58	-106.08	-80.95	-54.75	-43.22		
544.25	-138.04	-111.11	-84.54	-56.47	-44.35		
544.50	-144.73	-116.28	-88.23	-58.23	-45.5		
544.75	-151.53	-121.47	-91.92	-60.02	-46.65		
545.00	-158.47	-126.68	-95.6	-61.82	-47.81		
545.25	-165.25	-131.82	-99.2	-63.62	-48.98		
545.50	-171.91	-136.88	-102.73	-65.41	-50.16		
545.75	-178.59	-141.95	-106.25	-67.19	-51.35		
546.00	-185.4	-147.04	-109.77	-68.97	-52.53		
546.25	-192.92	-152.53	-113.61	-70.74	-53.73		
546.50	-201.35	-158.56	-117.83	-72.56	-54.93		
546.75	-210.11	-164.69	-122.07	-74.41	-56.12		
547.00	-219.16	-170.96	-126.35	-76.27	-57.32		
547.25	-228.3	-177.32	-130.64	-78.15	-58.52		
547.50	-237.41	-183.78	-134.98	-80.03	-59.73		
547.64	-242.44	-187.37	-137.36	-81.06	-60.38		
547.75	-246.61	-190.35	-139.34	-81.92	-60.92		
548.00	-255.97	-196.98	-143.75	-83.8	-62.12		
548.25	-265.63	-203.76	-148.22	-85.68	-63.34		
548.50	-275.62	-210.66	-152.75	-87.57	-64.55		
548.75	-285.94	-217.68	-157.35	-89.45	-65.75		
549.00	-296.56	-224.85	-161.99	-91.34	-66.95		
549.25	-307.03	-231.81	-166.44	-93.22	-68.17		
549.50	-316.79	-238.36	-170.53	-95.08	-69.38		
549.75	-326.55	-244.93	-174.61	-96.91	-70.59		
550.00	-336.45	-251.59	-178.74	-98.71	-71.79		
550.25	-345.48	-257.74	-182.44	-100.5	-72.98		
550.50	-352.71	-262.77	-185.34	-102.22	-74.2		
550.75	-359.5	-267.74	-188.2	-103.89	-75.4		
551.00	-366.07	-272.68	-191.08	-105.51	-76.6		
551.25	-373.69	-278.57	-194.67	-107.1	-77.78		
551.50	-383.91	-286.61	-199.84	-108.73	-78.96		
551.75	-394.16	-294.68	-205.11	-110.43	-80.15		
552.00	-404.47	-302.85	-210.44	-112.17	-81.33		

552.02	-404.91	-303.21	-210.66	-112.29	-81.41		
552.25	-410.89	-308.3	-213.8	-113.92	-82.5		
552.50	-414.58	-313.69	-217.17	-115.61	-83.66		
552.75	-414.88	-318.97	-220.56	-117.25	-84.81		
553.00	-412.2	-324	-223.96	-118.86	-85.95		
553.00	-412.24	-324.02	-223.97	-118.87	-85.96		
553.03	-411.64	-324.45	-224.26	-119.06	-86.09		
553.13	-408.6	-325.88	-225.24	-119.71	-86.57		
553.25	-355.67	-327.44	-226.37	-120.45	-87.12		
553.36	-198.88	-328.72	-227.46	-121.15	-87.63		
553.50	-89.76	-326.9	-228.79	-121.99	-88.27		
553.73	-32.96	-233.83	-231.03	-123.37	-89.33		
553.75	-30.88	-219.12	-231.2	-123.48	-89.41		
554.00	-13.51	-69.78	-233.54	-124.93	-90.54		
554.21	-5.99	-25.9	-235.15	-126.15	-91.49		
554.25	-5.39	-21.76	-234.65	-126.37	-91.66		
554.50	-3.43	-7.94	-189.34	-127.84	-92.77		
554.69	-3.01	-4.53	-85.33	-128.99	-93.63		
554.75	-2.95	-4.02	-62.93	-129.34	-93.88		
555.00	-2.85	-3.06	-17.69	-130.85	-95.01		
555.13	-17.42	-12.62	-17.58	-131.67	-95.61		
555.25	-24.81	-18.85	-21.55	-132.35	-96.12		
555.50	-36.59	-29.33	-29.35	-133.03	-97.22		
555.75	-45.95	-37.91	-36.19	-130.28	-98.31		
556.00	-54.13	-45.32	-42.17	-123.46	-99.38		
556.15	-58.9	-49.5	-45.52	-118.39	-100.03		
556.25	-61.94	-52.13	-47.61	-115.14	-100.44		
556.50	-69.42	-58.6	-52.73	-107.66	-101.48		
556.75	-76.52	-64.73	-57.56	-101.94	-102.48		
557.00	-83.43	-70.67	-62.21	-97.73	-103.4		
557.02	-83.78	-70.96	-62.43	-97.48	-103.46		
557.23	-47.52	-70.25	-65.15	-94.63	-104.18		
557.25	-43.41	-68.8	-65.4	-94.38	-104.24		
557.50	-16.74	-37.26	-66.68	-91.87	-104.94		
557.75	-9.1	-16.49	-55.82	-90.01	-105.47		
558.00	-6.81	-9.09	-31.89	-88.56	-105.81		
558.18	-21.62	-17.36	-23.65	-87.43	-105.93		
558.25	-25.1	-20.25	-23.94	-86.86	-105.95		
558.50	-34.91	-28.88	-27.73	-82.95	-105.88		
558.75	-42.22	-35.65	-32.24	-76.68	-105.61		
559.00	-48.38	-41.39	-36.52	-70.69	-105.17		
559.01	-48.56	-41.56	-36.65	-70.51	-105.15		
559.25	-47.59	-45.19	-40.65	-66.05	-104.56		
559.50	-46.02	-46.11	-43.87	-63.22	-103.71		
559.75	-45.26	-46.44	-46.25	-61.56	-102.57		
560.00	-44.95	-46.67	-47.95	-60.71	-101.09		
560.00	-44.95	-46.67	-47.95	-60.71	-101.08		
560.14	-26.81	-43.38	-48.77	-60.39	-100.19		

560.25	-15.16	-31.39	-48.91	-60.24	-99.37		
560.50	-6.92	-11.39	-38.28	-60.11	-97.3		
560.75	-5.49	-6.34	-16.92	-59.82	-94.94		
560.87	-5.31	-5.67	-10.94	-58.96	-93.71		
561.00	-5.23	-5.4	-7.75	-56.44	-92.44		
561.25	-24.34	-17.92	-12.86	-42.89	-89.86		
561.50	-35.5	-27.24	-19.24	-31.55	-87.19		
561.75	-44.21	-34.87	-25.04	-28.38	-84.17		
562.00	-51.7	-41.48	-30.41	-28.54	-79.84		
562.00	-51.71	-41.48	-30.42	-28.54	-79.83		
562.25	-52.86	-46.04	-35.05	-29.81	-74.04		
562.37	-52.71	-47.28	-36.99	-30.62	-70.73		
562.50	-52.73	-48.31	-38.87	-31.59	-66.84		
562.75	-53.08	-49.9	-41.95	-33.51	-59.79		
563.00	-53.67	-51.27	-44.54	-35.4	-53.8		
563.25	-60.04	-54.27	-47.17	-37.24	-49.22		
563.50	-67.43	-58.86	-50.14	-39.09	-46		
563.75	-74.17	-63.79	-53.33	-40.91	-44.04		
564.00	-80.58	-68.73	-56.65	-42.71	-42.9		
564.01	-80.8	-68.9	-56.75	-42.78	-42.86		
564.25	-64.59	-70.51	-59.32	-44.43	-42.12		
564.50	-45.01	-61.38	-61.49	-46.04	-41.88		
564.75	-34.25	-49.07	-61.53	-47.59	-42.02		
565.00	-28.06	-39.33	-58.31	-49.05	-42.42		
565.03	-27.91	-38.41	-57.85	-49.21	-42.48		
565.25	-31.23	-36.33	-53.51	-50.41	-42.98		
565.50	-32.83	-36.59	-49.72	-51.5	-43.67		
565.75	-33.53	-36.84	-47.49	-52.19	-44.43		
566.00	-33.87	-36.96	-46.1	-52.52	-45.22		
566.00	-33.89	-36.97	-46.07	-52.53	-45.24		
566.25	-36.24	-38.21	-45.72	-52.66	-46.02		
566.50	-37.93	-39.76	-45.99	-52.65	-46.79		
566.75	-39.11	-41.07	-46.63	-52.6	-47.5		
567.00	-40.02	-42.16	-47.42	-52.57	-48.13		
567.25	-47.73	-45.99	-48.78	-52.63	-48.69		
567.50	-55.21	-50.8	-50.73	-52.8	-49.18		
567.75	-61.94	-55.82	-53.22	-53.1	-49.62		
568.00	-68.09	-60.76	-56.04	-53.56	-50.03		
568.25	-75.23	-65.9	-59.1	-54.18	-50.41		
568.50	-82.27	-71	-62.14	-54.94	-50.78		
568.75	-89.13	-76.13	-65.32	-55.82	-51.16		
569.00	-95.93	-81.3	-68.58	-56.8	-51.55		
569.25	-101.38	-85.8	-71.4	-57.83	-51.95		
569.50	-105.96	-89.77	-73.95	-58.87	-52.39		
569.75	-110.4	-93.57	-76.52	-59.92	-52.88		
570.00	-114.77	-97.27	-79.09	-61.01	-53.4		
570.00	-114.83	-97.33	-79.13	-61.02	-53.41		
570.06	-114.9	-98.13	-79.7	-61.26	-53.52		

570.25	-36.77	-93.43	-81.73	-62.12	-53.95		
570.26	-33.55	-91.67	-81.85	-62.17	-53.98		
570.50	-5.37	-23.07	-82.94	-63.28	-54.54		
570.63	-2.98	-7.85	-74.17	-63.91	-54.87		
570.75	-2.52	-3.69	-46.65	-64.47	-55.16		
571.00	-2.38	-2.41	-6.17	-65.58	-55.82		
571.01	-4.19	-3.08	-5.78	-65.62	-55.84		
571.25	-24.83	-18.08	-13.49	-62.63	-56.49		
571.50	-36.17	-27.64	-20.35	-48.91	-57.19		
571.75	-44.91	-35.16	-26.03	-40.22	-57.75		
572.00	-52.55	-41.73	-31.2	-36.67	-57.8		
572.25	-60.09	-47.84	-35.97	-35.78	-56.96		
572.50	-67.3	-53.65	-40.38	-36.21	-55.15		
572.75	-74.21	-59.21	-44.54	-37.26	-52.76		
573.00	-80.91	-64.56	-48.53	-38.63	-50.28		
573.25	-86.4	-69.6	-52.38	-40.18	-48.05		
573.50	-91.26	-74.24	-56.08	-41.83	-46.32		
573.75	-96	-78.63	-59.65	-43.54	-45.07		
574.00	-100.72	-82.85	-63.09	-45.26	-44.29		
574.25	-106.25	-86.87	-66.23	-46.98	-43.91		
574.50	-112.28	-90.92	-69.18	-48.65	-43.88		
574.59	-114.45	-92.39	-70.21	-49.23	-43.93		
574.75	-118.44	-95.12	-72.09	-50.3	-44.11		
575.00	-124.64	-99.4	-74.99	-51.92	-44.54		
575.25	-131.64	-103.9	-77.99	-53.54	-45.12		
575.50	-139.32	-108.62	-81.04	-55.16	-45.83		
575.75	-147.24	-113.49	-84.1	-56.78	-46.62		
576.00	-155.31	-118.45	-87.16	-58.39	-47.48		
576.25	-163.45	-123.4	-90.16	-60	-48.38		
576.50	-171.75	-128.38	-93.13	-61.59	-49.34		
576.75	-180.19	-133.42	-96.12	-63.16	-50.32		
577.00	-188.81	-138.5	-99.11	-64.73	-51.33		
577.25	-197.58	-143.57	-102.06	-66.28	-52.35		
577.50	-206.63	-148.65	-104.99	-67.82	-53.39		
577.75	-215.91	-153.79	-107.92	-69.35	-54.45		
578.00	-225.42	-158.99	-110.87	-70.87	-55.51		
578.25	-235.28	-164.25	-113.84	-72.38	-56.56		
578.50	-245.66	-169.6	-116.82	-73.88	-57.63		
578.75	-256.44	-175.03	-119.82	-75.38	-58.7		
579.00	-267.53	-180.52	-122.83	-76.88	-59.77		
579.25	-278.51	-185.9	-125.7	-78.37	-60.83		
579.50	-289.36	-191.22	-128.5	-79.84	-61.89		
579.75	-300.18	-196.57	-131.31	-81.29	-62.96		
580.00	-311.01	-201.95	-134.14	-82.73	-64.02		
580.25	-321.71	-207.24	-136.89	-84.16	-65.08		
580.45	-330.01	-211.32	-139.02	-85.27	-65.91		
580.50	-332.34	-212.45	-139.61	-85.58	-66.14		
580.75	-343.07	-217.69	-142.33	-86.98	-67.18		

581.00	-353.79	-222.92	-145.06	-88.37	-68.24		
581.25	-364.11	-227.98	-147.69	-89.75	-69.29		
581.50	-373.99	-232.95	-150.25	-91.11	-70.33		
581.75	-383.66	-237.89	-152.81	-92.46	-71.36		
582.00	-393.05	-242.81	-155.38	-93.79	-72.38		
582.00	-393.08	-242.82	-155.39	-93.8	-72.38		
582.01	-393.3	-242.93	-155.44	-93.83	-72.41		
582.02	-393.82	-243.19	-155.57	-93.92	-72.48		
582.05	-394.76	-243.67	-155.81	-94.07	-72.59		
582.11	-396.57	-244.61	-156.27	-94.38	-72.83		
582.21	-399.17	-246.17	-157.04	-94.88	-73.22		
582.25	-396.42	-246.89	-157.4	-95.11	-73.41		
582.37	-247.04	-248.86	-158.38	-95.74	-73.91		
582.50	-81.6	-249.52	-159.41	-96.39	-74.44		
582.62	-34.21	-228.63	-160.39	-97	-74.93		
582.75	-15.27	-128.9	-161.41	-97.64	-75.45		
582.96	-4.76	-29.29	-162.71	-98.64	-76.29		
583.00	-3.88	-21.49	-162.6	-98.86	-76.46		
583.25	-34.09	-36.05	-139.65	-100.07	-77.46		
583.42	-45.83	-44.75	-115.1	-100.9	-78.13		
583.50	-50.89	-48.46	-107.24	-101.3	-78.46		
583.75	-64.47	-58.32	-94.75	-102.53	-79.44		
584.00	-76.61	-66.94	-90.35	-103.64	-80.43		
584.25	-88	-74.76	-89.32	-104.51	-81.41		
584.50	-99.01	-82.12	-89.79	-105.07	-82.38		
584.75	-109.81	-89.17	-91.11	-105.32	-83.34		
585.00	-120.5	-96	-92.96	-105.31	-84.28		
585.25	-130.77	-102.54	-95.06	-105.11	-85.2		
585.50	-140.74	-108.84	-97.34	-104.79	-86.1		
585.75	-150.64	-114.97	-99.73	-104.42	-87		
586.00	-160.59	-120.97	-102.21	-104.05	-87.87		
586.25	-169.71	-126.76	-104.74	-103.72	-88.7		
586.50	-177.74	-132.27	-107.23	-103.46	-89.49		
586.75	-185.29	-137.55	-109.72	-103.28	-90.23		
587.00	-192.64	-142.61	-112.23	-103.18	-90.94		
587.25	-199.74	-147.45	-114.69	-103.17	-91.6		
587.50	-206.62	-152.09	-117.09	-103.25	-92.22		
587.75	-213.42	-156.63	-119.47	-103.4	-92.8		
588.00	-220.23	-161.05	-121.83	-103.63	-93.34		
588.25	-227.7	-165.42	-124.18	-103.92	-93.86		
588.50	-236.33	-169.82	-126.51	-104.28	-94.35		
588.75	-245.78	-174.29	-128.82	-104.7	-94.82		
589.00	-255.7	-178.86	-131.12	-105.17	-95.27		
589.10	-259.59	-180.62	-131.99	-105.36	-95.43		
589.25	-265.96	-183.51	-133.41	-105.69	-95.7		
589.50	-276.5	-188.25	-135.68	-106.25	-96.11		
589.75	-287.26	-193.04	-137.96	-106.85	-96.51		
590.00	-298.15	-197.88	-140.23	-107.48	-96.91		

590.25	-309.02	-202.72	-142.48	-108.13	-97.3		
590.50	-319.82	-207.55	-144.72	-108.82	-97.68		
590.75	-330.34	-212.38	-146.96	-109.52	-98.07		
591.00	-340.48	-217.17	-149.2	-110.25	-98.46		
591.25	-350.26	-221.94	-151.44	-111	-98.85		
591.50	-359.67	-226.66	-153.69	-111.76	-99.24		
591.75	-368.7	-231.32	-155.95	-112.54	-99.64		
592.00	-377.5	-235.9	-158.19	-113.34	-100.05		
592.25	-385.97	-240.4	-160.4	-114.15	-100.46		
592.50	-394.14	-244.81	-162.6	-114.96	-100.88		
592.75	-402.06	-249.14	-164.79	-115.79	-101.3		

Hand tensiometer data, unamended control

HT day	C15	err	C30	err	C60	err	C120	err	C200	err
19.5	-51.13	3.20	-76.80	25.52	-46.95	2.87	-70.23	5.32	-69.05	6.38
21.5	-129.83	7.12	-96.45	4.00	-64.04	3.18	-52.52	6.98	-68.68	3.72
22.5	-51.75	3.10	-49.67	5.85	-51.76	5.49	-54.76	4.59	-57.90	4.36
23.5	-79.88	2.95	-88.48	16.95	-53.97	4.05	-53.64	2.76	-56.34	4.77
24.5	-94.37	3.49	-101.40	16.72	-57.95	6.56	-54.28	4.14	-53.15	10.75
27.5	-47.48	5.51	-68.53	20.34	-41.15	4.10	-47.17	5.55	-64.44	8.14
28.5	-52.40	6.16	-60.38	9.04	-37.32	5.32	-38.47	4.71	-55.36	11.60
29.5	-46.18	5.90	-61.27	12.03	-44.52	4.34	-38.60	3.69	-51.08	10.76
30.5	-33.90	3.39	-36.22	6.31	-25.22	2.67	-27.33	2.68	-45.74	13.75
32.5	-47.13	2.27	-46.60	4.84	-32.72	5.83	-22.54	2.36	-36.90	21.50
33.5	-46.50	3.08	-43.87	2.34	-32.40	3.05	-25.03	5.31	-20.73	7.73
34.5	-44.35	4.52	-45.46	4.43	-29.62	6.29	-23.68	2.78	-36.70	0.00
35.5	-72.90	6.50	-66.36	7.22	-34.47	6.62	-27.73	4.67	-16.10	6.99
36.5	-56.95	6.21	-61.16	7.06	-41.00	5.15	-33.00	4.21	-27.80	5.45
37.5	-52.22	4.14	-52.14	6.62	-33.36	3.70	-26.00	4.34	-23.65	5.35
39.5	-10.80	2.40	-28.18	12.50	-24.13	1.48	-30.42	5.00	-31.60	4.34
40.5	-52.00	7.00	-50.62	4.49	-34.68	4.21	-24.28	4.15	-26.80	6.43
41.5	-44.16	2.95	-49.74	5.85	-41.35	3.49	-32.90	2.76	-28.55	5.69
42.5	-84.96	5.42	-68.04	8.47	-48.30	5.62	-37.90	2.92	-33.37	8.24
43.5	-103.42	10.53	-67.30	11.82	-43.47	9.11	-33.66	5.28	-30.60	2.50
48.5	-17.25	4.75	-22.00	6.50	-25.43	4.76	-23.92	2.48	-23.53	9.36
49.5	-62.15	3.28	-56.63	2.29	-32.45	4.37	-26.35	1.34	-20.62	2.91
50.5	-92.78	5.94	-81.80	2.96	-43.40	7.46	-37.70	1.27	-25.58	4.93
51.5	-49.48	2.52	-58.25	6.15	-44.72	3.91	-41.80	0.99	-35.40	2.35
53.5	-103.07	5.85	-96.13	5.78	-57.72	8.04	-49.47	3.16	-48.70	5.25
54.5	-90.15	3.67	-89.42	4.77	-65.84	5.20	-53.57	2.23	-49.82	5.80
55.5	-110.60	7.22	-100.57	6.41	-61.52	7.51	-51.74	1.34	-46.82	5.78
56.5	-33.67	9.31	-81.37	16.00	-62.68	6.37	-49.40	2.33	-41.73	6.07
57.5	-43.40	3.17	-44.45	3.79	-33.18	3.10	-29.88	3.14	-46.07	8.23
58.5	-67.08	2.15	-58.33	1.60	-36.48	4.76	-31.76	0.77	-27.07	5.10
61.5	-317.04	32.27	-169.00	16.89	-77.02	8.46	-51.36	5.39	-39.05	2.56

62.5	-338.80	27.74	-190.47	17.52	-78.23	6.80	-53.42	1.34	-45.08	4.85
63.5	-363.84	29.17	-212.02	13.66	-91.07	4.89	-63.48	0.75	-57.00	3.75
64.5	-49.77	1.44	-46.35	2.97	-30.88	2.85	-24.32	0.91	-29.53	7.15
68.5	-250.25	34.27	-170.57	22.07	-72.10	9.55	-56.43	1.85	-49.53	4.28
69.5	-302.82	37.64	-185.38	13.98	-90.33	6.65	-59.78	1.66	-53.45	2.65
71.5	-387.97	36.75	-275.35	45.16	-139.50	25.29	-64.77	3.58	-61.17	4.48
72.5	-551.22	74.40	-371.60	68.42	-128.15	10.28	-79.92	4.64	-75.94	4.31
73.5	-18.50	2.42	-23.62	5.26	-13.87	3.82	-16.00	3.19	-65.73	5.89
74.5	-65.37	2.51	-66.18	9.02	-44.03	2.34	-31.40	1.63	-42.54	8.60
75.5	-25.07	1.95	-34.48	7.33	-24.14	1.99	-32.08	5.07	-25.10	4.61
76.5	-40.82	1.20	-46.72	4.68	-44.80	2.35	-41.00	1.37	-28.77	4.70
77.5	-16.88	1.98	-23.86	7.31	-26.12	2.78	-35.76	3.34	-26.36	5.71
78.5	-72.92	3.48	-68.05	5.77	-42.65	3.29	-34.38	1.77	-24.54	4.66
80.5	-128.37	12.62	-119.17	21.57	-65.02	3.45	-40.52	5.48	-40.85	7.21
81.5	-52.53	3.03	-52.95	4.32	-35.42	2.83	-23.66	5.27	-25.78	4.83
82.5	-82.65	3.04	-78.82	4.76	-52.93	2.16	-35.23	3.03	-34.18	2.37
84.5	-35.40	3.38	-56.10	12.74	-66.37	6.19	-48.87	5.07	-47.03	2.14
85.5	-57.30	1.65	-62.32	7.12	-41.13	1.59	-46.25	6.01	-43.00	7.03
86.5	-69.17	2.90	-70.83	6.69	-45.67	4.15	-39.17	2.81	-49.66	6.47
87.5	-81.67	3.49	-79.93	4.70	-51.93	5.65	-39.25	1.74	-44.75	7.84
89.5	-58.86	5.80	-71.25	8.64	-59.87	12.68	-45.23	3.55	-47.17	4.03
90.5	-84.87	5.73	-86.15	9.57	-64.70	3.48	-49.87	3.80	-53.75	4.69
91.5	-124.03	8.66	-123.70	11.88	-87.92	13.94	-43.92	6.56	-57.77	3.90
92.5	-49.38	1.67	-50.80	4.97	-41.38	4.67	-35.47	3.43	-49.93	8.43
93.5	-54.52	2.41	-56.52	6.12	-39.35	3.01	-33.15	2.23	-47.93	8.90
94.5	-92.43	5.20	-91.45	7.92	-64.97	8.13	-40.78	2.18	-46.38	8.39
96.5	-29.95	2.20	-43.67	5.72	-49.90	11.15	-29.82	1.33	-43.50	7.90
97.5	-40.25	1.36	-45.57	3.00	-42.88	6.55	-30.88	0.96	-39.00	7.04
98.5	-50.75	4.13	-48.98	6.69	-34.88	5.21	-25.02	2.22	-28.77	6.10
99.5	-87.12	3.12	-73.85	6.07	-57.60	15.93	-33.97	4.10	-27.63	4.68
100.5	-110.92	5.10	-96.68	8.18	-68.08	12.57	-39.13	3.10	-38.36	3.56
101.5	-131.40	4.71	-114.92	8.90	-71.63	6.03	-44.48	3.05	-37.97	5.63
104.5	-66.80	3.17	-54.97	12.06	-40.48	10.61	-30.45	4.09	-40.05	7.65
105.5	-81.57	5.19	-77.97	7.62	-45.38	6.54	-29.00	2.44	-36.00	8.30
106.5	-110.94	8.46	-99.02	17.41	-70.52	11.86	-44.20	7.59	-44.02	3.56
107.5	-58.08	2.45	-44.28	11.30	-34.48	8.27	-32.38	7.83	-52.13	12.52
108.5	-50.45	4.54	-45.28	7.95	-26.00	3.08	-19.93	2.24	-45.03	10.21
110.5	-29.78	5.33	-28.83	5.74	-20.50	3.97	-14.37	1.15	-36.00	11.53
111.5	-55.55	3.59	-60.55	5.58	-36.55	5.05	-21.63	1.98	-20.44	2.61
112.5	-8.15	2.89	-12.38	5.38	-6.00	2.00	-19.50	6.17	-24.08	6.86
113.5	-49.58	4.10	-48.25	6.75	-29.10	3.69	-23.48	1.82	-18.67	2.38
114.5	-74.92	4.35	-69.95	7.89	-43.28	4.29	-27.95	1.97	-18.50	4.37
115.5	-85.48	10.72	-100.90	6.62	-56.63	2.89	-42.72	2.59	-31.67	4.26
116.5	-89.78	2.97	-99.43	9.78	-61.73	5.57	-45.47	3.94	-41.50	4.78
118.5	-241.47	103.20	-122.40	13.23	-75.55	5.27	-47.82	4.23	-50.12	3.41
119.5	-74.42	12.91	-107.97	21.72	-73.83	5.46	-53.80	3.39	-47.73	6.75
120.5	-65.50	7.63	-105.10	27.00	-67.98	5.64	-63.75	2.85	-57.77	7.13

121.5	-102.22	10.58	-125.77	30.03	-70.98	6.76	-67.72	4.74	-68.32	3.14
122.5	-38.72	3.13	-64.22	31.97	-29.18	3.35	-57.27	9.14	-74.48	5.09
124.5	-71.52	7.69	-89.20	22.00	-50.95	5.76	-65.35	10.62	-68.62	7.31
125.5	-91.87	6.27	-123.12	39.60	-65.38	3.45	-56.63	8.33	-69.33	8.12
126.5	-78.97	12.88	-129.33	39.30	-74.40	4.55	-63.97	9.57	-71.67	7.74
127.5	-91.23	3.24	-119.08	38.78	-76.47	3.49	-66.40	6.91	-85.12	8.55
128.5	-115.03	3.42	-133.28	36.17	-76.08	4.97	-68.78	10.23	-88.18	8.95
129.5	-32.73	5.94	-100.05	62.59	-57.78	14.87	-81.72	9.85	-97.95	7.03
131.5	-42.58	5.49	-77.87	37.83	-27.98	2.06	-62.10	16.24	-68.26	14.47
132.5	-70.26	4.18	-85.15	22.38	-44.40	1.79	-46.93	14.40	-70.55	13.47
133.5	-68.15	6.71	-98.12	30.12	-41.55	4.09	-40.50	7.11	-52.40	12.07
134.5	-41.05	2.31	-64.88	24.06	-39.05	2.96	-55.27	12.72	-76.07	16.98
135.5	-63.95	5.79	-101.98	36.97	-44.25	4.34	-52.70	10.26	-63.05	10.49
136.5	-78.45	5.44	-125.85	48.94	-55.92	5.34	-60.77	17.16	-79.77	20.95
138.5	-114.60	11.80	-166.37	65.70	-81.23	4.87	-75.35	13.35	-91.43	19.59
139.5	-90.87	7.69	-167.92	70.25	-77.08	7.93	-60.64	1.37	-88.75	18.85
140.5	-101.17	5.63	-163.58	74.39	-69.80	10.05	-73.92	14.67	-88.37	18.86
141.5	-8.55	1.20	-9.63	3.74	-10.35	0.65	-5.42	1.48	-58.75	45.35
142.5	-53.97	3.84	-53.80	3.32	-37.38	1.72	-29.25	1.05	-22.73	2.28
143.5	-60.83	3.07	-63.38	5.69	-42.30	4.34	-34.13	3.47	-30.25	3.13
145.5	-100.67	5.53	-93.08	16.40	-45.68	6.13	-38.78	4.21	-30.32	4.42
146.5	-139.37	6.73	-127.47	19.12	-70.33	3.27	-51.95	3.53	-49.15	2.72
147.5	-54.92	2.27	-64.22	11.80	-55.50	3.66	-55.92	2.60	-48.58	5.68
148.5	-81.83	5.09	-90.38	16.93	-46.33	4.85	-53.00	4.36	-58.02	5.80
149.5	-107.80	5.47	-109.50	23.61	-61.86	2.24	-51.50	6.43	-55.63	3.66
150.5	-21.95	3.58	-27.97	2.93		196.59	-12.68	3.14	-21.03	12.23
152.5	-52.33	4.11	-60.10	5.21	-33.98	4.13	-32.55	3.66	-31.94	4.84
153.5	-87.92	1.99	-83.92	8.82	-44.78	5.11	-41.00	2.16	-35.54	6.00
154.5	-106.38	4.26	-98.82	14.29	-58.38	3.62	-42.30	3.88	-36.58	5.32
155.5	-118.60	3.12	-114.32	17.82	-66.17	6.07	-47.98	5.46	-45.08	6.67
156.5	-136.97	8.31	-122.35	22.43	-63.48	6.94	-41.63	4.21	-33.67	5.43
157.5	-5.14	1.46	-11.00	5.77	-3.00	0.00	-31.46	14.52	-46.35	5.42
159.5	-59.75	3.62	-54.15	3.55	-36.32	3.01	-21.42	2.92	-12.56	3.10
160.5	-89.50	2.29	-73.45	7.85	-45.42	4.81	-33.72	1.68	-24.30	2.56
161.5	-70.75	3.40	-83.33	9.54	-62.25	2.25	-40.53	3.87	-32.75	4.05
162.5	-57.20	3.11	-58.37	7.01	-41.55	4.18	-40.48	2.63	-39.12	3.98
163.5	-93.88	2.89	-90.43	9.43	-59.53	3.22	-44.98	4.70	-48.76	5.69
164.5	-28.83	3.55	-33.27	4.40	-48.35	7.07	-50.10	4.59	-53.00	2.97
167.5	-98.55	3.64	-88.72	10.85	-50.77	5.21	-42.55	4.51	-48.80	7.00
168.5	-129.72	8.91	-111.23	14.68	-63.23	2.91	-48.30	3.27	-48.54	4.37
169.5	-4.80	1.24	-15.00	8.54	-15.58	10.33	-41.55	7.94	-61.78	3.18
170.5	-52.43	3.09	-52.73	4.78	-36.58	3.35	-30.90	7.79	-46.78	9.12
171.5	-51.03	2.80	-68.72	8.15	-52.92	2.52	-40.42	4.05	-51.30	10.17
173.5	-53.75	2.43	-61.28	9.66	-50.42	2.74	-42.13	4.14	-48.02	7.97
174.5	-19.78	1.84	-16.00	3.10	-39.18	24.87	-6.00	2.52	-64.33	13.64
175.5	-57.97	4.22	-48.70	4.52	-37.23	3.04	-25.78	2.20	-17.66	2.78
176.5	-91.32	2.99	-74.40	5.49	-46.45	3.59	-34.08	2.11	-24.26	4.91

177.5	-127.32	6.50	-99.30	8.99	-71.08	1.44	-46.47	2.22	-35.32	4.57
180.5	-128.13	6.22	-101.77	8.33	-73.15	2.00	-59.92	14.40	-38.25	5.33
181.5	-12.03	1.75	-19.20	8.41	-29.44	7.86	-55.17	3.57	-55.38	5.25
182.5	-48.16	1.96	-45.58	5.10	-26.32	4.15	-27.42	7.41	-43.34	7.63
183.5	-75.85	4.24	-71.75	9.30	-40.03	4.19	-34.97	5.41	-48.83	11.28
184.5	-63.53	8.42	-86.33	12.71	-64.23	2.30	-39.55	4.94	-38.87	9.55
185.5	-76.25	4.75	-81.35	10.23	-66.58	3.95	-51.20	4.35	-54.50	8.28
187.5	-61.72	5.16	-71.57	9.95	-53.77	3.61	-52.62	2.31	-57.22	6.16
188.5	-25.92	1.92	-29.07	5.19	-29.70	10.71	-60.58	5.88	-68.50	4.21
189.5	-60.82	4.69	-58.50	5.16	-44.68	2.98	-35.73	4.67	-55.50	5.33
190.5	-41.92	3.45	-46.00	4.34	-35.95	5.00	-37.07	2.63	-50.42	7.72
191.5	-71.82	4.76	-73.47	3.60	-52.32	3.08	-38.78	2.51	-52.17	5.21
194.5	-53.67	3.94	-56.46	3.17	-34.90	3.55	-26.04	2.41	-35.40	9.81
195.5	-78.92	5.05	-70.67	4.64	-31.93	5.44	-28.97	1.61	-25.70	4.67
196.5	-43.65	4.10	-45.15	4.48	-57.83	4.80	-56.50	2.25	-48.68	6.04
197.5	-74.82	3.89	-70.12	5.45	-57.58	2.63	-47.35	1.73	-43.65	4.39
198.5	-98.35	3.92	-87.87	8.07	-59.92	4.29	-43.05	1.91	-40.43	5.10
201.5	-73.67	5.69	-78.88	14.78	-63.28	3.82	-57.20	3.72	-57.88	3.50
204.5	-180.08	11.96	-145.17	19.33	-109.67	19.32	-63.45	3.78	-65.83	2.60
205.5	-218.27	14.10	-174.13	21.75	-121.88	18.27	-71.03	3.38	-69.97	6.70
209.5	-417.32	41.33	-254.33	35.98	-144.00	15.56	-81.50	1.65	-83.80	5.21
212.5	-481.75	86.59	-338.33	41.66	-188.00	38.78	-87.50	1.41	-90.17	3.03
216.5	-738.00	27.94	-467.17	52.76	-238.50	47.11	-124.83	2.87	-122.50	5.68
219.5	-387.83	49.92	-365.83	41.45	-174.17	25.08	-135.60	6.04	-126.83	9.92
223.5	-404.97	76.53	-396.78	53.62	-312.25	55.98	-159.50	9.85	-144.92	10.36
226.5	-629.78	60.56	-638.75	59.43	-244.00	63.52	-156.92	30.13	-143.07	23.74
233.5	-333.24	118.56	-518.83	80.59	-407.75	68.39	-277.58	21.24	-224.18	28.62
237.5	-79.38	16.44	-251.83	79.74	-154.38	66.42	-229.10	38.95	-147.90	53.40
244.5	-219.70	90.40	-279.67	72.82	-108.27	49.40	-226.50	55.61	-139.90	60.29
328.5	-74.00	6.00	-79.25	13.79	-394.75	109.39	-384.68	106.50	-453.50	52.80
338.5	-260.00	59.01	-355.83	44.13	-298.60	89.91	-392.00	59.59	-338.33	51.07
352.5	-71.20	2.56	-86.67	17.95	-70.83	33.00	-172.50	80.33	-429.00	36.11
359.5	-66.20	2.18	-60.83	1.83	-39.00	2.88	-26.20	2.13	-319.00	69.00
365.5	-38.25	5.27	-34.00	3.31	-24.00	2.38	-23.00	3.46	-339.50	11.50
373.5	-63.75	1.11	-57.83	1.58	-38.00	4.91	-26.17	2.51	-16.75	3.25
380.5	-106.70	4.59	-95.80	17.57	-74.83	3.91	-43.33	4.98	-49.50	4.35
388.5	-56.00	2.61	-51.00	3.21	-32.33	4.73	-21.17	2.01	-12.25	4.39
393.5	-42.50	2.63	-46.33	5.05	-36.33	4.97	-32.83	1.76	-28.40	5.18
401.5	-52.60	3.03	-48.00	4.26	-30.17	4.09	-22.00	1.34	-13.80	2.52
407.5	-48.20	3.02	-47.17	2.80	-32.50	3.74	-26.00	2.53	-22.00	3.96
414.5	-59.25	13.46	-54.00	4.40	-40.33	2.93	-32.67	2.79	-39.75	7.19
421.5	-67.80	4.83	-62.33	2.40	-42.83	2.47	-26.67	2.44	-21.67	4.42
426.5	-65.80	3.28	-61.67	3.48	-43.67	2.30	-32.67	1.86	-34.40	4.13
435.5	-45.60	2.44	-41.50	2.63	-32.50	1.91	-22.67	0.99	-17.80	4.33
442.5	-133.40	4.79	-113.83	8.85	-75.17	3.89	-48.83	6.85	-49.00	5.75
447.5	-71.40	2.01	-69.33	2.99	-33.00	3.20	-24.17	2.75	-22.25	7.61

456.5	-96.00	13.58	-92.50	12.21	-75.83	5.31	-55.00	6.84	-62.67	4.25
463.5	-85.80	1.77	-97.33	29.53	-56.67	6.49	-66.83	7.34	-92.67	4.46
470.5	-52.80	2.01	-47.83	5.74	-31.67	3.11	-26.80	4.09	-43.25	23.79
477.5	-130.20	1.83	-109.00	12.78	-67.33	4.81	-51.67	2.26	-48.33	5.07
484.5	-111.60	2.29	-96.00	9.44	-58.83	6.23	-46.50	3.28	-44.00	4.34
491.5	-93.80	2.62	-97.50	23.08	-56.83	6.16	-57.50	6.64	-75.60	3.26
498.5	-87.00	2.35	-76.83	5.66	-43.83	5.10	-38.00	1.77	-59.60	8.39
505.5	-129.60	6.57	-107.17	10.14	-58.83	3.50	-43.50	1.69	-35.17	5.53
512.5	-99.75	5.59	-82.83	5.75	-46.33	2.86	-28.50	2.26	-19.00	4.66
519.5	-93.80	3.20	-77.50	5.16	-48.00	3.84	-34.17	2.06	-33.33	3.53
526.5	-44.80	1.59	-48.67	10.90	-26.20	5.01	-36.33	4.49	-50.00	4.25
533.5	-154.80	11.86	-124.33	14.10	-63.83	4.61	-41.67	1.67	-40.20	4.19
540.5	-93.40	2.20	-81.33	3.28	-61.00	2.18	-48.33	1.26	-39.20	6.79
547.5	-260.20	17.19	-205.83	31.45	-100.83	4.96	-73.00	1.71	-64.83	7.25
554.5	-14.60	1.86	-10.50	2.33	-7.75	2.87	-90.00	20.00	-95.00	9.33
561.5	-56.60	2.32	-48.00	2.93	-35.67	2.53	-23.00	1.79	-22.75	7.96
568.5	-87.80	1.59	-82.17	8.40	-62.00	2.31	-45.33	2.11	-47.80	6.58
575.5	-146.20	6.41	-126.83	13.31	-69.83	6.65	-46.33	3.29	-41.80	3.43
581.5	-541.75	65.13	-340.83	66.10	-200.17	15.94	-106.17	6.09	-98.20	3.41
590.5	-208.80	6.58	-187.17	34.04	-110.50	5.59	-70.00	5.27	-81.20	5.06

Logged tensiometer data, 20 t ha⁻¹ biochar

day	T15	T30	T60	T120	T200
14.42	-140.46	-110.92	-89.44	-68.1	-73.64
14.92	-157.74	-115.4	-92	-70.02	-77.48
15.37	-160.3	-123.72	-97.12	-73.22	-81.32
15.87	-29.79	-24.57	-31.2	-74.5	-83.24
16.33	-59.82	-48.84	-45.92	-61.06	-83.88
16.83	-70.7	-58.44	-54.88	-54.02	-70.44
17.29	-82.22	-67.4	-60	-53.38	-62.76
17.79	-100.14	-76.36	-65.12	-55.3	-60.84
18.25	-107.18	-85.32	-70.24	-57.22	-62.12
18.75	-124.46	-92.36	-76	-61.06	-65.96
19.21	-133.42	-101.32	-79.84	-62.98	-69.16
19.71	-153.9	-108.36	-85.6	-66.82	-73.64
20.17	-32.94	-47.56	-87.52	-68.74	-77.48
20.67	-79.66	-61	-69.6	-73.22	-82.6
21.12	-93.1	-74.44	-68.32	-70.66	-85.8
21.62	-113.58	-84.68	-74.72	-71.3	-87.72
22.08	-126.38	-94.92	-77.92	-70.66	-87.72
22.58	-146.22	-105.8	-86.88	-73.86	-89.64
23.04	-144.94	-113.48	-88.8	-73.86	-89.64
23.54	-81.58	-69.96	-81.76	-77.7	-92.2
24.00	-82.86	-75.72	-75.36	-76.42	-93.48
24.50	-97.58	-86.6	-81.12	-80.26	-96.04

24.96	-96.3	-87.24	-79.84	-77.06	-96.04
25.46	-110.38	-95.56	-86.24	-78.98	-97.96
25.92	-134.06	-100.68	-86.88	-78.34	-97.96
26.42	-140.46	-113.48	-92.64	-80.9	-99.88
26.87	-98.22	-88.52	-92	-80.26	-99.88
27.37	-105.9	-95.56	-92.64	-82.82	-101.8
27.83	-64.3	-55.24	-89.44	-82.82	-103.08
28.33	-65.58	-61	-65.76	-82.82	-105
28.79	-55.98	-59.08	-68.96	-77.7	-105.64
29.29	-64.3	-52.68	-50.4	-73.22	-106.28
29.75	-92.46	-65.48	-56.16	-66.82	-103.72
30.25	-70.06	-59.72	-47.84	-61.06	-98.6
30.71	-48.94	-42.44	-40.16	-59.14	-92.2
31.21	-54.7	-43.08	-29.92	-55.94	-87.08
31.67	-52.78	-39.88		-46.98	-80.04
32.17	-72.7	-55.96		-41.94	-67.32
32.62	-50.22	-48.2		-44.42	-56.36
33.12	-66.94	-54.04		-45.14	-52.6
33.58	-63.1	-55.96		-47.06	-51.96
34.08	-58.62	-54.68		-45.78	-51.32
34.54	-77.1	-58.44		-45.7	-51.24
35.04	-75.26	-68.76		-46.42	-50.68
35.50	-71.98	-56.52		-50.18	-52.52
36.00	-97.02	-72.6		-50.26	-53.88
36.46	-109.74	-83.4		-54.02	-56.36
36.96	-93.74	-73.16		-55.3	-58.28
37.42	-98.86	-79.56	-75.36	-54.66	-60.2
37.92	-59.9	-59.16	-59.44	-59.86	-64.76
38.37	-77.82	-67.48	-62	-59.22	-66.68
38.87	-98.94	-77.72	-65.84	-57.3	-66.68
39.33	-104.06	-86.68	-71.6	-59.22	-67.32
39.83	-134.78	-93.72	-76.08	-61.14	-67.96
40.29	-76.54	-73.88	-80.56	-63.06	-69.88
40.79	-82.3	-64.28	-73.52	-64.98	-72.44
41.25	-89.98	-74.52	-71.6	-63.7	-74.36
41.75	-64.38	-65.56	-73.52	-61.78	-76.28
42.21	-81.02	-68.12	-70.96	-61.78	-76.28
42.71	-100.22	-71.32	-71.6	-61.78	-76.92
43.17	-108.54	-84.12	-74.16	-59.86	-76.28
43.67	-134.78	-95	-81.84	-63.06	-76.92
44.12	-141.82	-103.96	-83.76	-64.34	-76.92
44.62	-164.14	-114.12	-90.72	-68.1	-78.76
45.08	-182.14	-121.88	-92.08	-68.82	-80.12
45.58	-194.22	-133.32	-100.32	-72.58	-83.24
46.04	-225.02	-138.52	-100.4	-73.94	-84.6
46.54	-63.1	-47.64	-78.64	-75.86	-87.8
47.00	-82.94	-64.28	-63.92	-67.54	-89.08
47.50	-97.66	-75.8	-68.4	-62.42	-87.16

47.96	-77.82	-64.28	-67.12	-59.86	-82.04
48.46	-33.02	-47.64	-67.76	-59.22	-78.84
48.92	-59.26	-45.08	-47.92	-54.74	-76.92
49.42	-76.54	-59.8	-53.68	-45.78	-74.36
49.87	-63.74	-48.92	-48.56	-43.86	-65.4
50.37	-79.74	-63	-44.72	-44.5	-58.36
50.83	-98.3	-73.24	-56.24	-46.42	-53.24
51.33	-102.78	-82.84	-63.92	-50.26	-53.24
51.79	-97.66	-83.48	-69.04	-54.1	-55.16
52.29	-73.34	-66.2	-67.12	-57.3	-59
52.75	-58.62	-57.88	-65.2	-58.58	-62.2
53.25	-78.46	-64.92	-62.64	-57.94	-64.76
53.71	-103.42	-75.8	-66.48	-57.3	-67.32
54.21	-111.1	-87.96	-70.96	-58.58	-67.96
54.67	-81.66	-83.48	-75.44	-60.5	-69.88
55.17	-95.1	-79	-57.52	-62.42	-71.16
55.62	-105.98	-86.68	-81.2	-65.62	-75
56.12	-113.66	-93.72	-57.52	-66.26	-77.56
56.58	-129.02	-101.4	-80.56	-69.46	-80.76
57.08	-141.82	-110.36	-83.12	-69.46	-82.68
57.54	-71.42	-67.48	-86.96	-71.38	-85.24
58.04	-65.02	-48.92	-30	-64.34	-87.8
58.50	-56.06	-41.88	-21.05	-56.02	-85.24
59.00	-66.94	-52.76	-33.2	-46.42	-74.36
59.46	-81.66	-64.92		-47.06	-64.76
59.96	-102.14	-77.08		-48.34	-57.72
60.42	-111.1	-87.32		-52.82	-57.72
60.92	-138.62	-98.2		-56.02	-58.36
61.37	-144.38	-109.72		-59.86	-62.2
61.87	-184.7	-120.6		-63.06	-65.4
62.33	-190.46	-132.76		-66.9	-69.24
62.83	-230.78	-143.64	-97.84	-70.1	-73.08
63.29	-239.1	-154.52	-102.96	-73.3	-77.56
63.79	-264.7	-164.76	-107.44	-76.5	-82.04
64.25	-249.98	-169.24	-112.56	-79.06	-85.88
64.75	-91.9	-47.64	-116.4	-82.26	-90.36
65.21	-60.54	-44.44	-57.52	-57.3	-91
65.71	-63.74	-52.12	-58.16	-52.82	-71.8
66.17	-79.1	-63	-59.44	-51.54	-63.48
66.67	-100.22	-75.8	-64.56	-52.18	-61.56
67.12	-111.1	-86.04	-69.68	-53.46	-60.92
67.62	-129.66	-96.92	-77.36	-57.94	-62.84
68.08	-139.9	-106.52	-80.56	-59.86	-64.76
68.58	-161.02	-117.4	-88.88	-64.98	-69.24
69.04	-178.94	-127	-91.44	-66.9	-71.8
69.54	-200.7	-138.52	-99.12	-71.38	-76.92
70.00	-228.86	-148.12	-101.68	-73.3	-79.48
70.50	-240.38	-159.64	-108.08	-77.78	-84.6

70.96	-205.18	-164.76	-110.64	-79.7	-87.8
71.46	-209.66	-167.96	-117.68	-84.18	-93.56
71.92	-269.82	-175.64	-118.96	-85.46	-96.12
72.42	-283.26	-186.52	-124.72	-88.66	-100.6
72.87	-352.54	-196.12	-127.28	-90.58	-103.16
73.37	-371.74	-208.28	-132.4	-93.78	-107
73.83	-323.74	-175.64	-134.96	-95.7	-108.92
74.33	-40.06	0.98	-22.34	-45.14	-95.48
74.79	-50.94	-39.32	-41.52	-34.9	-30.84
75.29	-69.5	-55.32	-52.4	-41.94	-39.16
75.75	-95.74	-72.6	-60.08	-47.06	-44.28
76.25	-67.58	-34.84	-67.76	-50.9	-49.4
76.71	-70.14	-51.48	-56.24	-51.54	-53.88
77.21	-82.94	-64.92	-57.52	-50.26	-55.8
77.67	-66.94	-55.32	-62.64	-52.82	-57.08
78.17	-82.3	-67.48	-48.56	-53.46	-59.64
78.62	-64.38	-43.16	-56.88	-54.74	-61.56
79.12	-80.38	-59.8	-41.52	-50.26	-62.84
79.58	-90.62	-71.32	-54.96	-51.54	-61.56
80.08	-93.82	-77.08	-60.08	-54.1	-62.2
80.54	-93.18	-82.84	-60.72	-57.3	-64.12
81.04	-102.14	-83.48	-64.56	-59.22	-66.04
81.50	-113.66	-91.8	-66.48	-62.42	-69.24
82.00	-81.02	-53.4	-68.4	-63.06	-71.8
82.46	-88.7	-64.92	-54.32	-63.7	-75
82.96	-98.94	-77.08	-57.52	-59.86	-75.64
83.42	-100.22	-82.84	-76.72	-60.5	-75.64
83.92	-129.66	-96.92	-81.2	-63.06	-76.92
84.37	-134.78	-105.88	-85.68	-65.62	-78.2
84.87	-157.18	-117.4	-88.88	-66.9	-79.48
85.33	-84.22	-66.84	-72.88	-69.46	-81.4
85.83	-71.42	-54.04	-83.76	-71.38	-83.32
86.29	-78.46	-60.44	-64.56	-72.02	-86.52
86.79	-75.26	-52.76	-67.76	-68.82	-88.44
87.25	-84.22	-63.64	-56.24	-63.7	-90.36
87.75	-97.66	-75.8	-69.04	-59.22	-89.08
88.21	-104.06	-82.84	-41.52	-58.58	-85.88
88.71	-122.62	-91.8	-69.04	-60.5	-83.32
89.17	-129.66	-100.76	-73.52	-62.42	-82.68
89.67	-115.58	-91.8	-78	-65.62	-83.96
90.12	-102.14	-77.08	-79.28	-68.18	-85.24
90.62	-102.14	-75.16	-77.36	-70.74	-88.44
91.08	-115.58	-87.32	-76.08	-70.74	-90.36
91.58	-129.66	-97.56	-34.48	-72.66	-91.64
92.04	-148.86	-109.72	-76.72	-72.66	-92.28
92.54	-147.58	-118.68	-79.28	-73.94	-94.2
93.00	-59.26	-40.6	-32.56	-75.22	-95.48
93.50	-80.38	-59.16		-69.46	-97.4

93.96	-77.82	-63		-62.42	-94.2
94.46	-92.54	-71.96		-61.14	-91.64
94.92	-111.74	-84.76	-71.6	-59.86	-86.52
95.42	-118.78	-94.36	-78	-61.78	-83.32
95.87	-74.62	-73.24	-78.64	-63.7	-80.76
96.37	-77.82	-78.36	-44.08	-64.98	-81.4
96.83	-62.46	-51.48	-34.48	-64.98	-81.4
97.33	-65.66	-57.88		-61.14	-82.68
97.79	-52.22	-52.76		-58.58	-80.12
98.29	-49.02	-45.08		-55.38	-76.92
98.75	-52.86	-42.52	-49.84	-52.18	-72.44
99.25	-72.7	-57.24	-52.4	-48.34	-67.96
99.71	-90.62	-70.04	-59.44	-48.34	-62.84
100.21	-100.22	-80.28	-65.2	-50.9	-59
100.67	-113.66	-89.24	-72.24	-54.74	-59.64
101.17	-121.98	-98.2	-76.72	-57.94	-61.56
101.62	-134.78	-106.52	-83.12	-61.78	-64.76
102.12	-143.74	-114.84	-86.96	-64.34	-66.68
102.58	-152.06	-121.88	-92.72	-68.18	-71.16
103.08	-165.5	-130.84	-95.28	-70.74	-75
103.54	-178.3	-138.52	-102.32	-75.22	-78.84
104.04	-191.1	-148.12	-103.6	-76.5	-82.68
104.50	-34.3	-95	-107.44	-79.06	-86.52
105.00	-60.54	-45.08	-71.6	-78.42	-90.36
105.46	-75.26	-59.16	-63.28	-70.74	-94.2
105.96	-86.78	-69.4	-62	-63.7	-94.2
106.42	-97.66	-78.36	-68.4	-63.06	-91.64
106.92	-118.14	-90.52	-72.88	-62.42	-86.52
107.37	-124.54	-99.48	-78.64	-64.98	-84.6
107.87	-56.06	-42.52	-72.88	-66.26	-83.32
108.33	-63.74	-52.76	-59.44	-62.42	-85.24
108.83	-46.46	-35.48	-58.8	-57.3	-83.32
109.29	-66.3	-50.84	-47.92	-50.26	-79.48
109.79	-94.46	-68.12	-56.24	-47.7	-71.16
110.25	-101.5	-78.36	-57.52	-49.62	-63.48
110.75	-130.3	-91.16	-68.4	-53.46	-60.92
111.21	-40.06	-30.36	-58.16	-56.02	-60.92
111.71	-78.46	-55.96	-48.56	-49.62	-62.2
112.17	-90.62	-68.76	-48.56	-47.7	-57.72
112.67	-113.66	-82.2	-61.36	-50.9	-55.16
113.12	-125.82	-93.08	-56.88	-53.46	-55.8
113.62	-63.74	-46.36	-56.24	-57.3	-58.36
114.08	-79.1	-60.44	-42.16	-54.1	-60.28
114.58	-96.38	-73.24	-54.32	-54.74	-61.56
115.04	-113.02	-83.48	-45.36	-54.74	-60.92
115.54	-129.66	-96.28	-62.64	-59.22	-62.84
116.00	-154.62	-105.88	-47.92	-59.86	-64.76
116.50	-114.94	-109.72	-51.76	-63.7	-67.96

116.96	-116.86	-103.32	-44.72	-65.62	-70.52
117.46	-125.82	-109.08		-70.1	-74.36
117.92	-155.26	-118.04		-71.38	-77.56
118.42	-161.02	-125.72		-74.58	-82.04
118.87	-199.42	-135.32		-76.5	-85.24
119.37	-207.1	-144.92		-79.06	-89.08
119.83	-155.26	-141.08		-80.34	-92.28
120.33	-139.9	-134.04		-82.9	-96.12
120.79	-113.66	-130.2	-115.12	-84.18	-98.68
121.29	-116.86	-116.12	-116.4	-86.74	-101.88
121.75	-150.14	-119.96	-114.48	-88.66	-104.44
122.25	-168.7	-132.12	-116.4	-89.3	-107
122.71	-125.82	-103.96	-117.68	-90.58	-109.56
123.21	-68.22	-64.92	-111.28	-91.22	-112.12
123.67	-100.86	-71.96	-99.12	-90.58	-114.68
124.17	-114.94	-84.76	-90.8	-84.82	-116.6
124.62	-132.86	-93.72	-90.8	-81.62	-118.52
125.12	-129.02	-100.76	-93.36	-78.42	-118.52
125.58	-137.26	-105.16	-98.4	-78.98	-118.44
126.08	-141.82	-109.08	-98.48	-78.42	-117.24
126.54	-141.74	-113.48	-104.8	-80.9	-117.8
127.04	-142.46	-118.68	-103.6	-80.98	-117.88
127.50	-111.66	-119.88	-107.36	-83.46	-118.44
128.00	-107.26	-107.8	-108.72	-84.82	-119.8
128.46	-109.1	-111.56	-111.84	-87.94	-121.64
128.96	-132.14	-119.24	-110.56	-87.94	-122.28
129.42	-132.78	-126.92	-112.48	-89.22	-123.56
129.92	-135.34	-132.68	-114.4	-89.86	-124.2
130.37	-111.66	-137.8	-118.88	-91.78	-126.12
130.87	-35.5	-142.28	-119.52	-93.06	-127.4
131.33	-7.41	-144.84	-121.44	-93.7	-128.04
131.83		-57.8	-113.76	-94.98	-129.32
132.29		-66.76	-95.2	-90.5	-130.6
132.79		-74.44	-86.88	-83.46	-131.24
133.25		-84.04	-85.6	-78.98	-129.96
133.75	-127.66	-90.44	-86.88	-77.06	-126.76
134.21	-131.5	-96.84	-88.8	-75.14	-124.2
134.71	-77.74	-69.96	-91.36	-76.42	-121.64
135.17	-63.02	-59.08	-86.24	-77.06	-119.72
135.67	-86.06	-66.12	-79.84	-77.7	-119.08
136.12	-96.3	-75.08	-77.92	-75.78	-118.44
136.62	-109.1	-82.76	-82.4	-75.78	-117.8
137.08	-121.9	-88.52	-81.12	-73.86	-116.52
137.58	-132.14	-96.84	-88.16	-75.14	-115.88
138.04	-150.06	-103.24	-88.16	-75.14	-114.6
138.54	-151.98	-110.92	-93.28	-77.06	-114.6
139.00	-162.86	-116.68	-95.84	-78.34	-115.24
139.50	-162.22	-122.44	-101.6	-81.54	-115.88

139.96	-186.54	-126.28	-103.52	-82.18	-116.52
140.46	-118.7	-109	-108.64	-86.02	-119.08
140.92	-138.54	-109	-106.72	-87.3	-120.36
141.42	-141.74	-117.32	-109.92	-90.5	-123.56
141.87	-171.18	-121.16	-109.92	-91.78	-125.48
142.37	-27.88	-13.7	-20.38	-13.12	
142.83	-64.3	-44.36	-44	-34.82	-23.77
143.33	-80.3	-61	-55.52	-43.14	-39.72
143.79	-91.18	-67.4	-60.64	-46.98	-44.84
144.29	-92.46	-75.08	-67.04	-51.46	-50.6
144.75	-117.42	-80.2	-71.52	-54.66	-55.08
145.25	-127.02	-89.8	-75.36	-57.22	-59.56
145.71	-149.42	-96.84	-81.12	-61.06	-64.04
146.21	-160.94	-105.16	-83.68	-62.34	-67.24
146.67	-178.22	-111.56	-90.08	-66.18	-71.08
147.17	-197.42	-119.24	-92	-68.1	-74.28
147.62	-166.06	-123.08	-88.16	-71.3	-78.76
148.12	-66.86	-61	-77.92	-72.58	-80.68
148.58	-96.94	-68.68	-87.52	-78.34	-86.44
149.08	-114.86	-80.2	-81.12	-77.06	-89
149.54	-128.3	-89.16	-84.96	-78.98	-93.48
150.04	-150.06	-98.76	-86.24	-77.7	-94.76
150.50	-155.82	-108.36	-93.28	-80.9	-97.96
151.00	-171.18	-116.04	-94.56	-79.62	-99.24
151.46	-58.54	-39.24	-38.24	-33.54	-26.97
151.96	-85.42	-59.08	-48.48	-41.22	-34.6
152.42	-97.58	-71.24	-59.36	-48.26	-42.28
152.92	-78.38	-52.04	-57.44	-50.82	-47.4
153.37	-89.9	-65.48	-62.56	-54.02	-52.52
153.87	-117.42	-76.36	-65.12	-55.3	-56.36
154.33	-113.58	-85.96	-67.68	-57.86	-59.56
154.83	-143.66	-92.36	-74.08	-59.78	-62.76
155.29	-148.78	-101.96	-69.6	-62.34	-65.96
155.79	-182.06	-109	-81.76	-64.9	-69.16
156.25	-176.3	-117.96	-70.88	-67.46	-73
156.75	-203.18	-122.44	-87.52	-69.38	-76.2
157.21	-207.66	-131.4	-71.52	-72.58	-80.04
157.71	-226.86	-136.52	-92	-76.42	-84.52
158.17	-233.9	-131.4	-79.2	-77.06	-87.08
158.67	-84.14	-42.44	-82.4	-80.26	-90.28
159.12	-6.78	5.48	13.52		
159.62	-63.1	-42.52	-28.72		
160.08	-78.62	-58.04	-35.92		-18.24
160.58	-98.54	-69	-44.32		-8.05
161.04	-111.02	-77.64	-47.84		-32.68
161.54	-125.74	-89.8	-77.28	-57.22	-56.36
162.00	-142.46	-96.28	-77.36	-57.3	-58.36
162.50	-99.5	-88.52	-83.68	-61.06	-63.4

162.96	-75.18	-62.92	-77.92	-62.98	-67.24
163.46	-91.18	-73.8	-79.2	-65.54	-71.72
163.92	-116.22	-82.2	-77.36	-64.34	-74.36
164.42	-123.9	-95.64	-85.04	-66.26	-78.2
164.87	-151.42	-101.4	-85.68	-66.26	-80.12
165.37	-67.58	-50.84	-80.56	-68.82	-82.68
165.83	-89.98	-62.36	-70.96	-65.62	-84.6
166.33	-84.22	-69.4	-72.88	-62.42	-86.52
166.79	-100.22	-74.52	-74.16	-61.14	-86.52
167.29	-105.34	-83.48	-60.72	-61.78	-86.52
167.75	-131.58	-89.24	-79.92	-63.7	-86.52
168.25	-142.46	-100.76	-84.4	-66.26	-87.8
168.71	-171.18	-108.36	-89.44	-68.74	-89
169.21	-189.82	-119.32	-91.44	-70.1	-89.72
169.67	-162.3	-123.8	-96.56	-72.66	-91.64
170.17	-137.98	-118.68	-83.12	-73.94	-92.92
170.62	-63.74	-36.12	-83.76	-75.86	-95.48
171.12	-79.74	-55.96	-45.36	-63.7	-97.4
171.58	-97.58	-67.4	-58.72	-57.86	-95.4
172.08	-113.02	-79	-61.36	-54.74	-88.44
172.54	-66.3	-67.48	-66.48	-56.66	-83.96
173.04	-88.7	-72.6	-64.56	-57.94	-81.4
173.50	-104.06	-82.2	-68.4	-60.5	-81.4
174.00	-130.3	-91.16	-69.68	-60.5	-80.76
174.46	-81.02	-71.32	-72.88	-63.7	-82.68
174.96	-106.62	-79	-70.32	-63.7	-83.96
175.42	-41.34	-29.08	-24.88	-43.86	-85.88
175.92	-71.42	-53.4	-39.6	-35.54	-58.36
176.37	-82.94	-66.2	-47.28	-43.22	-43.64
176.87	-111.74	-77.08	-53.68	-47.7	-44.92
177.33	-117.5	-87.96	-61.36	-52.82	-48.76
177.83	-155.26	-97.56	-65.84	-56.02	-52.6
178.29	-162.94	-108.44	-71.6	-59.22	-57.08
178.79	-130.3	-115.48	-76.08	-62.42	-61.56
179.25	-51.58	-49.56	-54.96	-65.62	-66.04
179.75	-81.66	-59.8	-58.8	-67.54	-71.16
180.21	-91.9	-73.24	-58.16	-65.62	-75
180.71	-111.74	-82.2	-62	-65.62	-78.2
181.17	-123.26	-91.8	-65.84	-66.26	-80.12
181.67	-139.26	-101.4	-71.6	-69.46	-82.68
182.12	-145.66	-108.44	-73.52	-69.46	-83.96
182.62	-51.58	-35.48	-43.44	-72.02	-86.52
183.08	-56.06	-45.72	-32.56	-59.22	-87.8
183.58	-79.74	-59.16	-37.68	-51.54	-83.32
184.04	-89.98	-69.4	-41.52	-48.34	-73.72
184.54	-103.42	-79.64	-50.48	-52.82	-69.24
185.00	-118.78	-88.6	-52.4	-54.74	-66.68
185.50	-45.18	-76.44	-58.8	-58.58	-68.6

185.96	-81.66	-71.32	-58.8	-61.14	-71.16
186.46	-95.1	-81.56	-61.36	-64.34	-75
186.92	-122.62	-91.16	-62.64	-64.98	-77.56
187.42	-129.02	-102.04	-67.12	-66.9	-81.4
187.87	-79.74	-81.56	-69.68	-68.18	-83.96
188.37	-87.42	-83.48	-70.96	-71.38	-88.44
188.83	-121.98	-89.88	-70.32	-72.02	-90.36
189.33	-29.19	-27.81	-72.24	-73.3	-92.28
189.79	-65.02	-48.92	-56.88	-67.54	-94.84
190.29	-72.06	-61.72	-60.08	-58.58	-92.92
190.75	-94.46	-70.04	-64.56	-56.66	-86.52
191.25	-44.54	-49.56	-65.2	-56.66	-80.76
191.71	-82.3	-62.36	-62	-56.66	-78.2
192.21	-92.54	-76.44	-66.48	-56.02	-76.92
192.67	-102.14	-82.84	-73.52	-58.58	-76.28
193.17	-107.26	-90.52	-76.72	-59.86	-76.28
193.62	-26.63	-16.93	-81.2	-62.42	-77.56
194.12	-59.26	-48.92	-54.96	-57.94	-79.48
194.58	-33.02	-31.64	-37.68	-51.54	-78.2
195.08	-57.98	-52.12	-47.28	-41.3	-68.6
195.54	-77.18	-64.28	-58.8	-44.5	-54.52
196.04	-94.46	-75.8	-62.64	-47.06	-50.68
196.50	-98.94	-85.4	-72.24	-51.54	-51.96
213.96	-199.42	-344.12	-195.12	-126.42	-150.52
214.42	-182.78	-356.92	-199.6	-128.98	-153.08
214.92	11.76	-367.8	-206	-130.9	-155
215.37	7.92	-381.24	-209.84	-133.46	-157.56
215.87	11.76	-386.36	-220.72	-136.02	-159.48
216.33	9.2	-404.28	-221.36	-138.58	-162.04
216.83	11.76	-409.4	-237.36	-141.14	-163.96
217.29	11.76	-429.24	-232.24	-142.42	-165.88
217.79	-257.66	-435.64	-255.28	-145.62	-169.08
218.25	-229.5	-453.56		-146.9	-170.36
218.75	-41.34	-463.8		-151.38	-172.92
219.21	12.4	-484.28	-251.44	-152.02	-174.2
219.71	8.57	-499		-156.5	-177.4
220.17	13.04	-516.92		-156.5	-178.04
220.67	-427.42	-530.36		-160.98	-181.24
221.12	-509.98	-545.08		-161.62	-181.88
221.62	-424.86	-558.52		-165.46	-185.08
222.08	-248.7	-570.68		-166.1	-185.08
222.58	4.09	-583.48		-169.94	-188.28
223.04	12.4	-592.44		-170.58	-188.92
223.54	3.45	-607.16		-173.78	-191.48
224.00	11.76	-612.92		-176.34	-192.12
224.50	-178.3	-626.36		-177.62	-193.4
224.96	-189.18	-631.48		-180.82	-194.68
225.46	-166.14	-647.48		-182.74	-197.24

225.92	11.76	-649.4		-185.3	-197.88
226.42	6.01			-187.22	-201.08
226.87	11.76			-191.06	-202.36
227.37	7.29			-192.34	-204.28
227.83	-186.62			-195.54	-206.2
228.33	-181.5	-664.12		-197.46	-206.84
228.79	11.76	-705.72		-200.02	-208.76
328.00	-66.86	-42.44		-491.4	-446.4
328.43	-99.5	-69.96		-500.3	-317.1
328.96		-89.16		-506.7	-319.6
329.42		-101.32		-511.9	-324.8
329.92		-116.04		-511.2	-400.9
330.38		-131.4		-513.1	-335.6
330.88		-148.68		-511.2	-406.7
331.34		-165.4		-513.8	-284.28
331.84		-184.6			
332.29		-201.24			
332.79		-221			
333.25		-234.52			
333.75		-256.2			
334.21		-265.88			
334.71		-285			
335.17		-293.4			
335.67					
336.13		-313.88			
336.63		-314.7			
337.09		-326.2			
337.59		-302.28			
338.04		-305.56			
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347.63					
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353.88					
354.34					
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355.29					
355.79					
356.25					
356.75					
357.21					
357.71				-36.18	-46.84
358.17				-29.14	-29.56
358.67				-39.38	-32.12
541.50	-60.24	-43.1	-32.9	-24.86	-25.04
542.01	-37.36	-31.74	-34.34	-26.28	-27.74
542.47	-49.52	-36.22	-36.9	-27.55	-29.62
542.97	-70	-44.54	-36.26	-27.56	-31.54
543.43	-74.48	-50.3	-40.1	-29.44	-33.46
543.93	-103.92	-56.06	-40.74	-30.72	-34.74
544.39	-102.64	-63.1	-45.22	-32.64	-37.3
544.89	-141.68	-68.86	-45.86	-32.64	-37.94
545.35	-135.28	-77.18	-50.34	-35.2	-40.5
545.85	-204.4	-84.86	-52.9	-36.48	-42.42
546.30	-198.64	-91.26	-54.82	-37.12	-43.06
546.80	-267.76	-98.94	-58.02	-38.4	-44.34
547.26	-276.08	-107.26	-61.22	-40.32	-46.26
547.76	-320.4	-113.66	-63.78	-41.6	-48.18
548.22	-340.2	-123.26	-66.98	-42.88	-49.46
548.72	-379.92	-129.02		-44.8	-51.38
549.21	-398.48	-141.18		-45.44	-52.66
549.71	-413.2	-148.86		-48	-54.58
550.17	-424.08	-159.74		-48.64	-55.86
550.67	-425.36	-168.7		-51.2	-57.78
551.13	-433.68	-178.94		-51.84	-59.06
551.63	-432.4	-186.62		-53.76	-60.34
552.09	-438.16	-197.5		-55.04	-61.62
554.97	-149.36	-150.78	-117.54	-64.64	-69.94

555.43	-25.24	-11.94	-122.02	-67.2	-71.86
555.93	-53.36	-29.18	-70.82	-53.12	-73.14
556.39	-57.84	-36.22	-57.38	-43.52	-75.06
556.89	-86	-45.18	-52.9	-37.76	-75.06
557.35	-84.08	-51.58	-53.54	-36.48	-74.42
557.85	-128.24	-60.54	-55.46	-35.2	-71.86
558.30	-126.32	-67.58	-57.38	-35.84	-70.58
558.80	-21.4	-17.06	-58.02	-36.48	-69.94
559.26	-32.88	-23.46	-45.86	-36.48	-69.3
559.76	-43.12	-31.1	-38.82	-33.92	-68.66
560.22	-47.6	-35.58	-37.54	-31.36	-68.02
560.72	-59.76	-41.98	-39.46	-30.72	-67.38
561.18	-2.84	-26.66	-39.46	-30.08	-65.46
561.68	-31.64	-18.98	-15.18	-14.76	-64.18
562.14	-32.24	-24.74	-19.66	-14.76	-54.58
568.92	-64.88	-43.9	-37.54	-31.36	-37.3
569.38	-67.44	-49.66	-40.74	-32.64	-38.58
569.88	-97.52	-58.62	-44.58	-33.92	-40.5
570.34	-93.68	-64.38	-47.14	-35.2	-41.78
570.84	-112.88	-68.86	-48.42	-35.2	-42.42
571.30	-109.04	-73.98	-50.98	-36.48	-43.7
571.80	-20.12	-10.02	-42.66	-35.84	-44.34
572.25	-31.64	-21.54	-24.74	-21.16	-45.62
572.75	-50.16	-30.46	-26.02	-19.87	-41.14
573.21	-50.8	-36.22	-28.58	-21.16	-35.38
573.71	-73.2	-41.98	-32.42	-23.07	-32.18
574.17	-68.72	-47.74	-34.98	-25	-30.9
574.67	-87.28	-53.5	-39.46	-27.55	-31.54
575.13	-80.88	-57.98	-40.74	-28.84	-32.82
575.63	-103.28	-63.1	-45.22	-31.36	-34.1
576.09	-103.92	-67.58	-46.5	-32.64	-36.02
576.59	-116.08	-73.98	-52.26	-35.2	-36.66
577.05	-132.72	-77.82	-52.26	-35.84	-39.22
577.55	-136.56	-85.5	-58.02	-39.04	-41.78
578.00	-157.68	-88.06	-57.38	-39.04	-43.7
578.50	-153.2	-95.1	-62.5	-42.24	-45.62
578.96	-180.72	-98.3	-61.86	-42.24	-47.54
579.46	-175.6	-104.7	-66.98	-45.44	-49.46
579.92	-202.48	-107.9	-66.34	-45.44	-50.74
580.42	-203.76	-113.66	-70.82	-48	-53.3
580.88	-222.96	-118.14	-71.46	-48.64	-54.58
581.38	-228.72	-123.26	-74.66	-51.2	-57.14
581.84	-235.12	-127.1	-75.94	-51.84	-58.42
582.34	-253.68	-131.58	-78.5	-53.76	-60.98
582.80	-243.44	-134.78	-79.78	-55.68	-60.98
583.30	-283.12	-140.54	-82.34	-56.96	-63.54
583.76	-20.76	-2.34	-82.34	-57.6	-63.54
584.26	-34.8	-21.54	-32.42	-51.84	-65.46

584.72	-53.36	-29.18	-31.14	-43.52	-67.38
585.22	-55.92	-36.22	-31.78	-37.12	-68.02
585.68	-68.72	-41.34	-34.98	-36.48	-67.38
586.18	-73.84	-45.82	-36.26	-34.56	-64.82
586.64	-83.44	-52.86	-42.02	-37.76	-65.46
587.14	-91.12	-54.78	-41.38	-36.48	-62.9
587.60	-93.68	-59.26	-43.94	-38.4	-62.26
588.10	-94.96	-62.46	-45.86	-39.04	-62.26
588.55	-91.76	-65.66	-49.06	-41.6	-60.98
589.05	-102	-67.58	-49.06	-42.24	-61.62
589.51	-101.36	-72.06	-53.54	-44.8	-63.54
590.01	-119.92	-73.34	-52.9	-45.44	-64.82
590.47	-117.36	-79.1	-57.38	-48.64	-67.38
590.97	-139.12	-81.02	-56.74	-48.64	-68.02
591.43	-137.84	-86.14	-59.94	-51.2	-69.94
591.93	-158.32	-89.34	-60.58	-51.84	-71.22
592.39	-160.24	-93.82	-63.78	-54.4	-72.5
592.89	-178.16	-98.3	-65.7	-55.04	-73.78
593.35	-187.76	-102.14	-68.26	-56.96	-75.06
593.85	-198	-107.26	-69.54	-58.24	-75.7
594.30	-214.64	-111.1	-71.46	-59.52	-76.98

HYDRUS model data, 20 t ha⁻¹ biochar

model time	T15	T30	T60	T120	T200	rain time	rain
14.75	-11.28	-33.38	-93.01	-72.52	-67.92	1	0.00
17.75	-97.85	-74.24	-57.73	-60.56	-69.57	2	-38.07
20.00	-58.74	-73.11	-74.33	-62.28	-65.24	3	-1.43
22.50	-99.62	-99.75	-80.66	-67.64	-64	4	0.00
25.00	-125.77	-98.16	-83.93	-72.81	-66.38	5	0.00
27.00	-23.84	-43.56	-88.53	-76.43	-69.14	6	-5.35
29.25	-36.77	-58.25	-55.46	-73.02	-72.41	7	-11.24
31.50	-29.62	-28.99	-27.58	-36.04	-71.33	8	0.00
33.75	-37.36	-32.03	-26.27	-26.7	-40.78	9	-3.39
36.14	-46.36	-49.94	-44.53	-35.3	-31.03	10	-11.90
38.75	-84.33	-62.17	-45.65	-37.37	-36.59	11	-2.73
40.50	-27.46	-23.46	-20.73	-39.19	-38.68	12	0.00
43.25	-97.79	-71.7	-51.37	-36.89	-33.26	13	-6.01
45.25	-54.15	-108.32	-73.43	-48.53	-39.12	14	-22.37
46.50	-26.22	-21.78	-16.18	-18.51	-43.87	15	-10.59
48.75	-23.39	-22.49	-21.05	-21.1	-22.75	16	0.00
51.00	-40.19	-43.4	-42.53	-31.74	-25.65	17	-32.18
53.75	-82.51	-67.72	-53.64	-42.18	-36.36	18	-7.97
56.02	-121.82	-96.09	-74.13	-52.73	-43.37	19	-9.28
57.50	-14.55	-13.84	-12.48	-24.35	-48.41	20	-16.48
60.25	-86.08	-66.32	-48.11	-31.57	-24.61	21	-4.70
63.00	-130.83	-111.29	-81.42	-51.97	-39.39	22	-4.70

63.38	-0.45	-1.62	-85.19	-54.4	-41.29	23	-6.66
63.58	-0.47	-0.47	-2.15	-55.66	-42.28	24	-19.09
63.75	-0.46	-0.47	-0.46	-56.63	-43.1	25	0.00
63.92	-0.46	-0.47	-0.45	-2.08	-43.9	26	0.00
64.56	-28.87	-23.89	-17.46	-11.16	-8.76	27	-34.15
67.50	-90.32	-74.3	-56.59	-37.66	-28.58	28	-6.01
70.00	-97.67	-98.11	-81.27	-54.18	-41.57	29	-2.08
72.50	-111.62	-130.95	-108.49	-70.32	-52.81	30	0.00
73.08	-7.71	-102.96	-113.19	-73.66	-55.36	31	0.00
73.11	-1.33	-93.4	-113.34	-73.8	-55.46	32	0.00
73.13	-0.22	-63.91	-113.46	-73.91	-55.55	33	-58.36
73.15	-0.13	-29.32	-113.58	-74.03	-55.64	34	-6.66
73.17	-0.16	-12.96	-113.68	-74.13	-55.72	35	-16.48
73.18	-0.14	-4.88	-113.78	-74.23	-55.81	36	-11.24
73.20	-0.14	-1.59	-113.86	-74.33	-55.88	37	-0.77
73.22	-0.1	-0.34	-113.94	-74.44	-55.96	38	-10.59
73.24	-0.13	-0.14	-113.99	-74.53	-56.04	39	-6.66
73.26	-0.14	-0.13	-113.91	-74.63	-56.12	40	0.00
73.27	-0.15	-0.12	-113.2	-74.73	-56.19	41	0.00
73.29	-0.14	-0.14	-108.92	-74.84	-56.28	42	-2.73
73.31	-0.13	-0.13	-92.23	-74.94	-56.35	43	0.00
73.33	-0.14	-0.13	-56.52	-75.04	-56.44	44	-51.16
73.35	-0.16	-0.13	-28.51	-75.14	-56.51	45	-15.82
73.37	-0.11	-0.14	-11.96	-75.25	-56.6	46	-0.77
73.39	-0.12	-0.13	-4.61	-75.35	-56.67	47	0.00
73.40	-0.16	-0.12	-1.22	-75.45	-56.76	48	0.00
73.42	-0.15	-0.13	-0.26	-75.55	-56.83	49	0.00
73.44	-0.16	-0.13	-0.13	-75.66	-56.92	50	-2.73
73.46	-0.12	-0.13	-0.13	-75.75	-56.99	51	-77.99
73.48	-0.12	-0.14	-0.13	-75.86	-57.08	52	-4.04
73.50	-0.13	-0.13	-0.13	-75.95	-57.15	53	0.00
73.51	-0.12	-0.13	-0.13	-76.05	-57.23	54	0.00
73.53	-0.15	-0.13	-0.13	-76.15	-57.31	55	0.00
73.55	-0.15	-0.13	-0.13	-76.25	-57.39	56	0.00
73.57	-0.12	-0.13	-0.13	-76.35	-57.46	57	-4.04
73.59	-0.13	-0.13	-0.13	-76.45	-57.55	58	0.00
73.60	-0.14	-0.13	-0.13	-76.51	-57.62	59	0.00
73.62	-0.14	-0.13	-0.13	-76.44	-57.7	60	-12.55
73.64	-0.11	-0.14	-0.13	-75.71	-57.78	61	-98.28
73.66	-0.11	-0.14	-0.13	-71.12	-57.86	62	-0.77
73.68	-0.09	-0.14	-0.13	-55.45	-57.93	63	-18.44
73.70	-0.14	-0.13	-0.13	-27.68	-58.02	64	-7.32
73.71	-0.13	-0.14	-0.13	-10.87	-58.09	65	-13.86
73.73	-0.14	-0.13	-0.13	-2.67	-58.17	66	0.00
73.75	-0.17	-0.12	-0.13	-0.42	-58.25	67	-3.39
73.77	-0.12	-0.14	-0.13	-0.12	-58.33	68	-28.26
73.79	-0.13	-0.14	-0.13	-0.13	-58.4	69	-0.77
73.81	-0.09	-0.15	-0.13	-0.13	-58.48	70	-1.43

73.82	-0.12	-0.13	-0.13	-0.13	-58.56	71	-7.32
73.84	-0.16	-0.12	-0.13	-0.13	-58.64	72	-16.48
73.86	-0.09	-0.15	-0.13	-0.13	-58.72	73	-8.62
73.88	-0.11	-0.14	-0.13	-0.13	-58.8	74	-1.43
73.90	-0.12	-0.13	-0.13	-0.13	-58.87	75	0.00
73.92	-0.11	-0.13	-0.13	-0.13	-58.95	76	-11.90
73.93	-0.11	-0.14	-0.13	-0.13	-59.02	77	-3.39
73.95	-0.14	-0.13	-0.13	-0.13	-59.04	78	0.00
73.97	-0.16	-0.13	-0.13	-0.13	-58.8	79	-26.29
73.99	-0.16	-0.13	-0.13	-0.13	-56.66	80	-9.28
74.02	-4.82	-2.64	-1.31	-0.64	-32.28	81	0.00
76.25	-21.19	-19.03	-19.09	-25.26	-21.58	82	-11.24
78.75	-43.48	-35.79	-28.24	-24.37	-24.12	83	-11.90
81.00	-6.79	-7.36	-13.18	-37.21	-30.58	84	-13.21
83.01	-61.62	-53.47	-42.61	-30.18	-26.95	85	-9.93
85.50	-25.7	-26.02	-31.76	-43.8	-36.66	86	0.00
87.75	-67.42	-57.52	-47.47	-39.99	-39.67	87	0.00
90.00	-51.43	-50.29	-52.39	-49.59	-42.52	88	0.00
92.00	-8.72	-11.64	-34.85	-54.7	-47.8	89	0.00
94.50	-39.87	-45.57	-43.69	-38.68	-46.81	90	0.00
97.00	-19.57	-20.9	-25.65	-38.54	-42.06	91	-34.80
99.75	-67.62	-56.88	-45.09	-35	-33.71	92	-0.77
102.50	-109.98	-91.46	-71.44	-50.09	-40.5	93	-4.70
104.50	-33.95	-27.95	-28.39	-59.38	-48.14	94	-21.06
106.50	-21.9	-34.33	-48.59	-47.31	-51.67	95	-16.48
109.06	-55.97	-44.05	-32.36	-27.51	-41.72	96	0.00
111.10	-15.98	-11.47	-8.87	-24.99	-32.83	97	-11.24
113.22	-22.47	-16.27	-10.88	-11.85	-22.48	98	-30.22
115.25	-85.34	-66.01	-45.7	-29.36	-22.16	99	0.00
118.00	-125.15	-92.45	-68.16	-47.39	-37.29	100	-33.49
120.25	-98.32	-93.25	-82.35	-58.46	-46.77	101	-0.77
122.50	-67.97	-67.79	-84.71	-67.55	-54.95	102	0.00
125.25	-130.58	-106.62	-87.99	-73.62	-63.28	103	-7.32
127.88	-146.39	-122.28	-101.83	-79.18	-69.18	104	0.00
129.66	-68.85	-64.83	-90.66	-83.69	-72.7	105	0.00
132.25	-133.18	-106.41	-89.55	-85.4	-77.69	106	-6.66
134.50	-101.25	-96.5	-94.87	-86.3	-80.82	107	-6.01
137.50	-198.19	-137.48	-104.62	-89.18	-83.68	108	0.00
140.00	-270.59	-174.39	-120.68	-93.25	-85.92	109	-17.79
141.25	-135.23	-190.21	-128.63	-95.99	-87.2	110	-1.43
141.68	-0.52	-0.67	-129.04	-97.01	-87.68	111	-1.43
141.96	-0.51	-0.52	-0.7	-97.67	-88	112	-2.08
143.50	-65.72	-48.65	-35.44	-41.06	-89.2	113	-0.77
146.14	-156.11	-101.81	-67.15	-49.24	-58.53	114	-6.01
148.50	-133.64	-100.11	-79.34	-59.92	-53.35	115	0.00
150.50	-16.88	-78.35	-91.86	-66.74	-57.22	116	-22.00
152.50	-55.42	-42.24	-34.43	-51.72	-61.77	117	-0.50
155.00	-87.68	-67.22	-54.01	-47.48	-53.02	118	-2.00

157.02	-156.45	-104.42	-71.84	-53.43	-50.05	119	0.00
157.15	-40.65	-106.66	-72.99	-53.89	-50.09	120	-8.00
157.16	-26.9	-106.79	-73.07	-53.93	-50.09	121	-7.00
157.16	-18.38	-106.88	-73.14	-53.95	-50.09	122	0.00
157.17	-13.26	-106.93	-73.2	-53.98	-50.09	123	0.00
157.18	-9.18	-106.9	-73.26	-54	-50.09	124	0.00
157.18	-6.44	-106.76	-73.31	-54.02	-50.09	125	0.00
157.19	-4.18	-106.37	-73.37	-54.04	-50.09	126	-0.40
157.19	-2.68	-105.6	-73.42	-54.07	-50.09	127	-1.43
157.20	-1.55	-103.96	-73.48	-54.09	-50.09	128	0.00
157.21	-0.85	-101.26	-73.53	-54.11	-50.09	129	-77.99
157.21	-0.39	-96.2	-73.58	-54.13	-50.09	130	-1.43
157.22	-0.17	-88.73	-73.63	-54.15	-50.09	131	0.00
157.22	-0.09	-77.37	-73.68	-54.17	-50.09	132	0.00
157.23	-0.07	-64.9	-73.73	-54.19	-50.09	133	0.00
157.23	-0.08	-50.88	-73.79	-54.21	-50.09	134	-13.86
157.24	-0.1	-38.97	-73.84	-54.24	-50.09	135	0.00
157.25	-0.08	-28.67	-73.89	-54.26	-50.09	136	0.00
157.25	-0.03	-21.65	-73.94	-54.28	-50.09	137	-4.70
157.26	-0.07	-15.16	-73.99	-54.3	-50.09	138	-44.62
157.26	-0.08	-10.57	-74.04	-54.32	-50.09	139	-8.62
157.27	-0.07	-6.88	-74.1	-54.34	-50.09	140	0.00
157.27	-0.07	-4.48	-74.15	-54.36	-50.09	141	-12.55
157.28	-0.1	-2.61	-74.2	-54.39	-50.09	142	-0.77
157.28	-0.07	-1.4	-74.25	-54.41	-50.09	143	-0.77
157.29	-0.07	-0.61	-74.31	-54.43	-50.09	144	-0.77
157.30	-0.07	-0.24	-74.36	-54.45	-50.09	145	-112.67
157.30	-0.07	-0.09	-74.41	-54.47	-50.09	146	-91.08
157.31	-0.07	-0.07	-74.45	-54.49	-50.1	147	0.00
157.31	-0.07	-0.07	-74.49	-54.52	-50.1	148	-0.77
157.32	-0.04	-0.07	-74.52	-54.54	-50.1	149	-11.90
157.33	-0.07	-0.07	-74.52	-54.56	-50.1	150	0.00
157.33	-0.05	-0.05	-74.48	-54.58	-50.1	151	-11.24
157.34	-0.08	-0.07	-74.32	-54.61	-50.1	152	-4.70
157.34	-0.06	-0.07	-74	-54.63	-50.1	153	-2.08
157.35	-0.06	-0.07	-73.29	-54.65	-50.11	154	0.00
157.35	-0.08	-0.07	-72.03	-54.67	-50.11	155	0.00
157.36	-0.07	-0.07	-69.37	-54.69	-50.11	156	-7.97
157.37	-0.06	-0.07	-65.13	-54.72	-50.11	157	-33.49
157.37	-0.07	-0.07	-57.6	-54.74	-50.12	158	0.00
157.38	-0.08	-0.07	-48.32	-54.76	-50.12	159	-6.01
157.38	-0.07	-0.07	-37.04	-54.78	-50.12	160	-3.39
157.39	-0.09	-0.07	-27.45	-54.8	-50.13	161	-12.55
157.40	-0.06	-0.07	-18.77	-54.83	-50.13	162	-52.47
157.40	-0.08	-0.07	-12.55	-54.85	-50.13	163	0.00
157.41	-0.06	-0.07	-7.74	-54.87	-50.14	164	0.00
157.41	-0.06	-0.07	-4.64	-54.89	-50.14	165	-15.17
157.42	-0.07	-0.07	-2.25	-54.92	-50.14	166	-2.73

157.42	-0.06	-0.07	-1.02	-54.94	-50.15	167	0.00
157.43	-0.07	-0.09	-0.32	-54.96	-50.15	168	-0.77
157.44	-0.08	-0.09	-0.1	-54.98	-50.16	169	-30.22
157.44	-0.08	-0.07	-0.06	-55.01	-50.16	170	0.00
157.45	-0.07	-0.07	-0.07	-55.03	-50.17	171	0.00
157.45	-0.08	-0.07	-0.07	-55.05	-50.17	172	-8.62
157.46	-0.07	-0.07	-0.07	-55.07	-50.18	173	0.00
157.47	-0.08	-0.07	-0.07	-55.1	-50.18	174	-7.97
157.47	-0.07	-0.07	-0.07	-55.12	-50.19	175	0.00
157.48	-0.07	-0.07	-0.07	-55.14	-50.19	176	-28.91
157.48	-0.09	-0.07	-0.07	-55.16	-50.2	177	-6.01
157.49	-0.07	-0.07	-0.07	-55.19	-50.2	178	0.00
157.49	-0.07	-0.07	-0.07	-55.21	-50.21	179	0.00
157.50	-0.07	-0.07	-0.07	-55.23	-50.21	180	0.00
157.51	-0.07	-0.07	-0.07	-55.25	-50.22	181	-42.00
157.51	-0.06	-0.07	-0.07	-55.28	-50.22	182	0.00
157.52	-0.09	-0.08	-0.07	-55.3	-50.23	183	-1.43
157.52	-0.06	-0.07	-0.07	-55.32	-50.23	184	-12.55
157.53	-0.06	-0.07	-0.07	-55.34	-50.24	185	0.00
157.54	-0.07	-0.07	-0.07	-55.36	-50.24	186	0.00
157.54	-0.07	-0.09	-0.07	-55.38	-50.25	187	0.00
157.55	-0.07	-0.07	-0.07	-55.4	-50.26	188	-15.17
157.55	-0.07	-0.07	-0.07	-55.42	-50.26	189	0.00
157.56	-0.07	-0.07	-0.07	-55.43	-50.27	190	0.00
157.56	-0.09	-0.07	-0.07	-55.44	-50.27	191	0.00
157.57	-0.05	-0.07	-0.07	-55.41	-50.28	192	0.00
157.58	-0.1	-0.07	-0.07	-55.35	-50.29	193	0.00
157.58	-0.09	-0.07	-0.07	-55.16	-50.29	194	0.00
157.59	-0.07	-0.01	-0.07	-54.8	-50.3	195	0.00
157.59	-0.08	-0.07	-0.07	-53.92	-50.31	196	0.00
157.60	-0.09	-0.07	-0.07	-52.21	-50.31	197	0.00
157.61	-0.06	-0.07	-0.07	-48.81	-50.32	198	0.00
157.61	-0.08	-0.07	-0.07	-43.63	-50.33	199	0.00
157.62	-0.07	-0.04	-0.07	-35.32	-50.33	200	-8.00
157.62	-0.06	-0.07	-0.07	-26.04	-50.34	201	0.00
157.63	-0.08	-0.07	-0.07	-17.15	-50.35	202	0.00
157.63	-0.07	-0.07	-0.07	-10.93	-50.35	203	0.00
157.64	-0.07	-0.07	-0.07	-6.08	-50.36	204	-8.00
157.65	-0.09	-0.07	-0.07	-3.16	-50.37	205	0.00
157.65	-0.07	-0.07	-0.07	-1.26	-50.38	206	0.00
157.66	-0.07	-0.07	-0.07	-0.41	-50.38	207	-12.00
157.66	-0.06	-0.07	-0.07	-0.09	-50.39	208	0.00
157.67	-0.07	-0.07	-0.07	-0.05	-50.4	209	0.00
157.67	-0.07	-0.07	-0.07	-0.07	-50.4	210	0.00
157.68	-0.07	-0.07	-0.06	-0.08	-50.41	211	-8.00
157.69	-0.07	-0.07	-0.07	-0.06	-50.42	212	0.00
157.69	-0.08	-0.07	-0.07	-0.07	-50.43	213	0.00
157.70	-0.05	-0.07	-0.07	-0.07	-50.43	214	-10.00

157.70	-0.07	-0.07	-0.07	-0.07	-50.44	215	0.00
157.71	-0.06	-0.07	-0.07	-0.07	-50.45	216	0.00
157.72	-0.07	-0.07	-0.07	-0.07	-50.46	217	0.00
157.72	-0.07	-0.07	-0.07	-0.07	-50.47	218	-8.00
157.73	-0.08	-0.07	-0.07	-0.07	-50.47	219	-15.00
157.73	-0.06	-0.07	-0.07	-0.07	-50.48	220	0.00
157.74	-0.07	-0.08	-0.07	-0.07	-50.49	221	-5.00
157.74	-0.1	-0.07	-0.07	-0.07	-50.5	222	0.00
157.75	-0.07	-0.07	-0.07	-0.07	-50.51	223	0.00
157.76	-0.07	-0.07	-0.07	-0.07	-50.51	224	0.00
157.76	-0.07	-0.07	-0.07	-0.07	-50.52	225	0.00
157.77	-0.07	-0.09	-0.07	-0.07	-50.53	226	0.00
157.77	-0.07	-0.07	-0.07	-0.07	-50.54	227	0.00
157.78	-0.07	-0.07	-0.07	-0.07	-50.54	228	0.00
157.78	-0.07	-0.07	-0.07	-0.07	-50.55	229	0.00
157.79	-0.07	-0.07	-0.07	-0.07	-50.56	230	0.00
157.80	-0.07	-0.07	-0.07	-0.07	-50.56	231	0.00
157.80	-0.13	-0.07	-0.07	-0.07	-50.56	232	-2.08
157.81	-0.07	-0.07	-0.07	-0.07	-50.56	233	0.00
157.81	-0.07	-0.07	-0.07	-0.07	-50.56	234	0.00
157.82	-0.06	-0.07	-0.07	-0.07	-50.55	235	0.00
157.82	-0.08	-0.07	-0.07	-0.07	-50.51	236	0.00
157.83	-0.06	-0.07	-0.07	-0.07	-50.42	237	0.00
157.84	-0.08	-0.07	-0.07	-0.07	-50.22	238	0.00
157.84	-0.07	-0.06	-0.07	-0.07	-49.9	239	0.00
157.85	-0.09	-0.07	-0.07	-0.07	-49.05	240	0.00
157.85	-0.07	-0.07	-0.07	-0.07	-48.08	241	0.00
157.86	-0.08	-0.07	-0.07	-0.07	-45.32	242	0.00
157.86	-0.07	-0.07	-0.07	-0.07	-40.47	243	0.00
157.87	-0.06	-0.07	-0.07	-0.07	-31.56	244	0.00
157.87	-0.08	-0.07	-0.07	-0.07	-19.92	245	0.00
157.88	-0.07	-0.07	-0.07	-0.07	-5.29	246	0.00
157.89	-0.06	-0.07	-0.07	-0.07	-0.07	247	0.00
157.89	-0.07	-0.07	-0.07	-0.07	-0.07	248	0.00
157.90	-0.13	-0.07	-0.07	-0.07	-0.07	249	0.00
157.90	-0.07	-0.07	-0.07	-0.07	-0.07	250	0.00
157.91	-0.07	-0.07	-0.07	-0.07	-0.07	251	0.00
157.91	-0.08	-0.07	-0.07	-0.07	-0.07	252	0.00
157.92	-0.07	-0.07	-0.07	-0.07	-0.07	253	0.00
157.93	-0.08	-0.07	-0.07	-0.07	-0.07	254	0.00
157.93	-0.08	-0.07	-0.07	-0.07	-0.07	255	0.00
157.94	-0.07	-0.09	-0.07	-0.07	-0.07	256	0.00
157.94	-0.07	-0.07	-0.07	-0.07	-0.28	257	0.00
157.95	-0.06	-0.07	-0.07	-0.07	-0.88	258	0.00
157.95	-0.08	-0.07	-0.07	-0.07	-1.44		
157.96	-0.11	-0.07	-0.07	-0.07	-1.99	328	-30.87
157.97	-0.06	-0.07	-0.07	-0.07	-0.07	329	-1.43
157.97	-0.07	-0.07	-0.07	-0.07	-0.07	330	0.00

157.98	-0.05	-0.07	-0.07	-0.07	-0.07	331	0.00
157.98	-0.07	-0.07	-0.07	-0.07	-0.07	332	0.00
157.99	-0.06	-0.07	-0.07	-0.07	-0.07	333	0.00
157.99	-0.05	-0.07	-0.07	-0.07	-0.07	334	0.00
158.00	-0.07	-0.07	-0.07	-0.07	-0.07	335	0.00
158.04	-0.26	-0.27	-0.26	-0.25	-0.25	336	-2.08
158.10	-0.25	-0.26	-0.26	-0.25	-0.25	337	-7.97
158.16	-0.23	-0.23	-0.26	-0.25	-0.25	338	-2.73
158.22	-0.24	-0.25	-0.25	-0.25	-0.25	339	-7.97
158.28	-0.25	-0.24	-0.25	-0.25	-0.25	340	-3.39
158.33	-0.25	-0.25	-0.25	-0.25	-0.25	341	0.00
158.40	-0.27	-0.28	-0.27	-0.25	-0.25	342	0.00
158.45	-0.22	-0.21	-0.25	-0.25	-0.25	343	0.00
158.51	-0.27	-0.28	-0.26	-0.25	-0.25	344	0.00
158.57	-0.23	-0.24	-0.25	-0.25	-0.25	345	-5.35
158.63	-0.27	-0.27	-0.26	-0.25	-0.25	346	0.00
158.69	-0.27	-0.28	-0.26	-0.25	-0.25	347	0.00
158.75	-0.24	-0.25	-0.26	-0.25	-0.25	348	0.00
158.80	-0.27	-0.26	-0.26	-0.25	-0.25	349	-17.13
158.87	-0.28	-0.29	-0.26	-0.25	-0.25	350	-21.06
158.93	-0.26	-0.26	-0.25	-0.25	-0.25	351	0.00
158.99	-0.28	-0.27	-0.26	-0.25	-0.25	352	-0.77
160.75	-71.65	-54.68	-38.09	-24.39	-18.27	353	-7.97
163.00	-76.43	-60.63	-49.49	-39.29	-31.65	354	-70.14
165.25	-59.42	-55.05	-52.34	-46.76	-40.23	355	0.00
168.00	-140.81	-97.67	-69.99	-53.19	-46.95	356	-26.95
169.75	-9.91	-23.48	-79.25	-59.68	-50.93	357	-40.69
172.00	-55.04	-53.88	-48.49	-50.63	-55.85	358	-0.77
174.02	-40.01	-49.7	-56.99	-51.7	-53.14	359	0.00
176.00	-57.99	-42.05	-28.1	-17.4	-14.11	360	0.00
178.00	-35.83	-47.34	-51.72	-35.31	-26.89	361	-11.90
181.00	-110.58	-86.12	-64.1	-47.68	-40.24	362	0.00
182.75	-51.36	-39.67	-34.49	-51.28	-45.76	363	-2.08
185.25	-65.19	-63.12	-59.36	-48.22	-47.11	364	-54.43
187.50	-81.31	-74.32	-69.73	-55.88	-49.26	365	0.00
189.28	-24.94	-23.02	-37.1	-61.53	-53.18	366	-11.90
192.00	-95.53	-74.56	-56.85	-50.32	-55.27	367	-17.79
194.00	-3.26	-3.54	-14.08	-56.9	-53.12	368	-45.93
196.04	-76.04	-61.34	-46.16	-37.52	-48.51	369	0.00
198.75	-91.4	-73.16	-58.92	-48.33	-43.21	370	-7.97
200.75	-62.23	-90.5	-80.93	-57.23	-47.81	371	-8.62
203.75	-123.04	-102.84	-87.8	-69.67	-57.18	372	-12.55
206.50	-191.98	-151.14	-117.86	-81	-65.45	373	0.00
209.50	-294.64	-220.1	-162.05	-97.32	-74.73	374	0.00
212.01	-400.83	-287.23	-203.75	-111.82	-83.18	375	0.00
214.25	-328.64	-327.38	-238.69	-124.56	-91	376	-27.60
216.50	-417.48	-364.63	-275.76	-136.77	-98.88	377	0.00
219.02	-373.42	-396.77	-326.68	-151.25	-107.61	378	0.00

221.25	-245.11	-362	-378.14	-164.15	-115.27	379	-9.28
223.50	-341.75	-385.58	-416.85	-176.64	-122.92	380	0.00
226.00	-335.25	-407.29	-477.24	-190.97	-131.3	381	0.00
228.25	-264.17	-401.72	-541.11	-204.2	-138.84	382	0.00
329.36	-33.91	-34.93	-331.12	-494.07	-450.55	383	0.00
332.25	-141.15	-108.4	-141.89	-498.66	-453.82	384	-11.90
334.75	-233.47	-162.01	-163.84	-499.78	-455.78	385	-56.40
337.25	-302.77	-205.99	-187.07	-489.3	-457.4	386	-16.48
339.25	-256.21	-224.46	-204	-469.49	-458.57	387	-12.55
341.75	-222.49	-208.74	-219.28	-440.55	-459.94	388	0.00
344.25	-326.4	-239.31	-226.99	-415.61	-461.26	389	-38.07
346.29	-376.82	-267.79	-235.65	-399.73	-462.29	390	-18.44
348.75	-422.12	-295.5	-248.44	-385	-463.3	391	-7.32
350.25	-195.21	-309.91	-256.19	-377.87	-463.75	392	-1.43
353.00	-173.85	-164.64	-251.46	-367.85	-464.11	393	-11.90
354.44	-2.04	-44.49	-235.57	-363.89	-464.02	394	-12.55
355.00	-0.77	-0.76	-15.96	-362.53	-463.92	395	-2.08
357.00	-11.1	-14.08	-32.5	-347.47	-463.32	396	-4.04
358.75	-40.6	-30.21	-20.92	-57.67	-462.43	397	-0.77
361.19	-87.9	-68.71	-49.76	-53.71	-460.67	398	0.00
363.50	-88.51	-70.62	-58.48	-62.76	-447.04	399	-44.62
365.25	-22.29	-15.71	-10.34	-60.35	-381.17	400	-13.21
367.25	-24.48	-29.73	-32.7	-32.62	-252.67	401	-2.08
369.25	-21.94	-15.55	-9.84	-5.77	-88.01	402	0.00
371.18	-43.56	-41.61	-34.98	-24.46	-18.67	403	-4.70
373.58	-37.39	-32.24	-30.1	-32.56	-29.03	404	-37.42
376.01	-64.6	-55.95	-45.28	-35.64	-32.36	405	-9.93
378.50	-59.18	-46.39	-34.91	-32.82	-36.26	406	-7.97
381.00	-66.89	-56.91	-48.74	-39.56	-35.24	407	0.00
384.00	-155.21	-102.08	-69.54	-49.14	-41.51	408	-16.20
385.25	-18.24	-96.4	-78.78	-53.74	-44.59	409	-12.20
387.00	-17.08	-16.61	-15.62	-21.19	-48.61	410	-2.60
389.13	-43.11	-42.67	-30.9	-22.54	-21.98	411	-0.20
391.25	-22.22	-18.2	-14.57	-12.42	-11.81	412	-15.60
393.50	-39.84	-43.51	-37.11	-26.06	-20.66	413	-10.00
396.25	-58.38	-48.08	-38.72	-33.65	-30.57	414	-9.80
399.00	-108.06	-80.52	-59.1	-42.75	-36.15	415	-12.40
400.33	-14.52	-12.99	-12.64	-46.64	-39.63	416	0.00
402.75	-62.9	-48.23	-35.17	-25.77	-28.21	417	-4.60
404.75	-4.96	-7.09	-31.45	-36.54	-29.63	418	-3.60
406.75	-30.97	-28.9	-25.24	-21.26	-25.7	419	-76.60
409.14	-24.36	-28.51	-37.61	-32.08	-26.37	420	-1.40
411.75	-63.45	-51.21	-40.4	-33.84	-32.33	421	-2.20
413.75	-30.49	-33.28	-41.14	-40.8	-35.1	422	-0.80
416.25	-33.95	-31.26	-32.99	-39.15	-39.46	423	-5.66
418.50	-56.65	-54.1	-48.38	-40.25	-38.9	424	-11.20
419.36	-0.53	-0.54	-35.08	-42.83	-39.2	425	-45.77
419.71	-0.54	-0.52	-0.54	-20.22	-39.54	426	-1.20

420.00	-0.54	-0.54	-0.54	-0.54	-39.36	427	-4.80
422.50	-61.61	-51.84	-40.37	-27.04	-20.28	428	-1.20
424.75	-40.21	-51.24	-56.7	-41.26	-31.51	429	-0.20
426.75	-33.89	-27.11	-19.31	-13.57	-33.98	430	-1.60
429.00	-54.26	-47.72	-39.78	-29.41	-23.21	431	-44.31
431.25	-26.67	-67.35	-60.06	-41.85	-32.56	432	-33.07
433.00	-5.23	-5.23	-5.24	-6.37	-37.74	433	-0.60
434.75	-2.51	-2.51	-2.52	-11.41	-16.21	434	-47.23
436.75	-15.8	-19.59	-26.52	-21.42	-15.94	435	-0.77
439.00	-18.62	-20.08	-23.47	-24.58	-22.78	436	-19.09
441.06	-62.82	-52.32	-41.33	-30.27	-25.75	437	-7.32
444.00	-102.04	-86.04	-69.1	-47.19	-36.3	438	-14.51
445.75	-4.87	-6.21	-31.98	-55.82	-43.02	439	-2.73
447.83	-17.83	-17.21	-15.79	-15.46	-41.34	440	0.00
450.00	-61.55	-52.74	-41.12	-27.44	-21.35	441	-2.73
452.75	-66.21	-60.41	-57.44	-43.3	-33.67	442	0.00
455.25	-65.13	-73.9	-72.62	-54.16	-42.95	443	0.00
457.75	-70.33	-76.23	-77.3	-63.54	-50.88	444	-16.60
460.25	-107.1	-94.99	-85.68	-70.47	-57.83	445	-36.00
462.75	-61.35	-59.2	-82.28	-77.08	-63.85	446	-20.80
465.00	-18.55	-33.03	-76.64	-80.46	-68.79	447	-12.40
468.00	-106.72	-83.44	-69.75	-75.71	-73.89	448	-0.20
469.50	-5.15	-23.66	-80.59	-74.67	-74.97	449	-1.40
471.46	-27.92	-21.79	-15.52	-19.58	-74.94	450	-1.00
473.75	-40.07	-39.14	-35.84	-28.94	-31.08	451	-7.60
476.75	-103.7	-77.96	-56.54	-40.44	-33.91	452	0.00
477.83	-1.28	-1.29	-2.25	-45.03	-36.96	453	0.00
480.00	-67.28	-50.23	-35.38	-23.6	-20.08	454	-6.40
481.50	-27.56	-21.54	-14.92	-9.45	-16.97	455	-5.80
484.25	-89.05	-66.48	-46.37	-30.7	-23.72	456	-0.60
487.00	-138	-95.17	-66.72	-45.05	-35.42	457	-5.40
489.00	-113.04	-99.36	-78.96	-53.53	-42.56	458	-0.40
491.25	-98.72	-82.04	-77.78	-61.59	-49.66	459	0.00
493.50	-154.71	-113.82	-85.05	-66.54	-55.81	460	-3.80
495.60	-82.07	-118.9	-94.87	-70.98	-60.54	461	-18.60
498.50	-116.97	-90.63	-82.11	-76.65	-66.19	462	0.00
500.06	-52.19	-86.01	-88.28	-77.65	-68.99	463	-0.60
503.00	-94.14	-82.08	-75.93	-78.8	-73.08	464	-22.00
505.75	-173.29	-118.25	-89.01	-78.48	-75.53	465	0.00
507.25	-219.01	-140.6	-98.6	-80.02	-76.34	466	0.00
509.00	-54.76	-63.99	-95.64	-83.06	-77.25	467	0.00
511.75	-99.21	-75.9	-69.85	-84.5	-79.4	468	-5.20
513.75	-57.71	-94.41	-83.06	-81.05	-80.97	469	-49.61
516.05	-17.53	-24.22	-65.97	-81.05	-81.44	470	-26.94
518.25	-44.58	-43.37	-50.06	-72.8	-81.26	471	-3.21
521.03	-113.43	-84.8	-65.56	-63.88	-77.56	472	-5.84
523.25	-85.88	-71.28	-68.39	-66.36	-72.01	473	-7.37
525.50	-77.91	-99.9	-80.75	-69.19	-69.22	474	-0.20

527.59	-60.26	-70.86	-74.86	-73.17	-68.97	475	0.00
530.00	-60.52	-50.46	-51.93	-73.62	-70.47	476	-1.19
532.75	-127.27	-95.66	-73.9	-68.32	-71.4	477	-61.59
534.25	-6.84	-7.11	-15.2	-70.38	-70.75	478	-2.84
536.25	-14.52	-14.9	-15.04	-16.64	-64.22	479	-0.80
537.05	-0.17	-2.7	-14.03	-15.43	-34.83	480	-49.01
537.08	-0.17	-0.16	-10.48	-15.37	-33.68	481	-4.65
537.12	-0.17	-0.17	-0.16	-15.3	-32.47	482	-0.20
537.15	-0.18	-0.16	-0.16	-15.2	-31.4	483	-0.60
537.18	-0.15	-0.17	-0.16	-3.08	-30.28	484	-5.61
537.21	-0.14	-0.16	-0.16	-0.16	-29.27	485	0.00
537.25	-0.17	-0.16	-0.16	-0.16	-28.23	486	0.00
537.28	-0.17	-0.16	-0.16	-0.16	-27.38	487	-10.36
537.31	-0.17	-0.17	-0.16	-0.16	-23.01	488	-1.00
537.35	-0.15	-0.16	-0.16	-0.16	-0.16	489	-14.19
537.38	-0.15	-0.17	-0.16	-0.16	-0.16	490	0.00
537.41	-0.13	-0.16	-0.16	-0.16	-0.16	491	0.00
537.45	-0.16	-0.19	-0.16	-0.16	-0.16	492	-0.60
537.48	-0.17	-0.15	-0.16	-0.16	-0.16	493	-8.61
537.51	-0.15	-0.18	-0.16	-0.16	-0.16	494	0.00
537.54	-0.14	-0.17	-0.16	-0.16	-0.16	495	-19.49
537.58	-0.17	-0.14	-0.16	-0.16	-0.16	496	-3.23
537.61	-0.17	-0.17	-0.16	-0.16	-0.16	497	0.00
537.65	-0.14	-0.17	-0.16	-0.16	-0.16	498	-0.61
537.68	-0.16	-0.16	-0.16	-0.16	-0.16	499	-19.20
537.71	-0.17	-0.16	-0.16	-0.16	-0.16	500	-9.00
537.75	-0.16	-0.16	-0.16	-0.16	-0.16	501	0.00
537.78	-0.15	-0.17	-0.16	-0.16	-0.16	502	-2.40
537.81	-0.16	-0.19	-0.16	-0.16	-0.16	503	-1.40
537.85	-0.16	-0.14	-0.16	-0.16	-0.16	504	0.00
537.88	-0.18	-0.15	-0.16	-0.16	-0.16	505	0.00
537.91	-0.16	-0.16	-0.16	-0.16	-0.16	506	-0.40
537.94	-0.17	-0.15	-0.16	-0.16	-0.16	507	-30.40
537.98	-0.17	-0.16	-0.16	-0.16	-0.16	508	-7.00
538.03	-6.09	-3.45	-1.75	-0.86	-0.52	509	-14.20
540.50	-43.96	-44.92	-39.9	-27.78	-20.74	510	-0.20
543.25	-91.24	-73.85	-57.78	-41.62	-33.06	511	0.00
546.25	-146.56	-116.48	-87.78	-57.07	-43.84	512	-0.40
549.00	-213.07	-163.78	-120.3	-71.91	-53.57	513	-21.60
552.00	-279.75	-213.34	-152.49	-86.97	-63.99	514	0.00
553.50	-95.56	-230.37	-164.95	-94.02	-69.03	515	-25.80
555.50	-32.02	-26.28	-34.39	-102.61	-75.51	516	0.00
557.75	-14.28	-25.53	-56.62	-89.47	-82.34	517	-12.00
560.00	-43.29	-43.98	-44.74	-67.22	-86.06	518	0.00
562.00	-44.68	-36	-28.21	-45.16	-82.43	519	-1.20
564.50	-45.74	-56.72	-52.45	-44.29	-60.33	520	0.00
566.50	-37.95	-39.57	-45.67	-50.13	-50.32	521	-18.60
569.50	-88.63	-75.22	-63.43	-54.18	-50.54	522	0.00

571.25	-21.97	-16.82	-20.65	-58.91	-52.26	523	0.00
574.25	-87.02	-71.3	-55.67	-45.84	-51.26	524	-2.20
577.00	-144.52	-108.11	-79.64	-56.33	-49.39	525	-22.00
580.00	-225.86	-151.83	-104.66	-68.7	-55.44	526	0.00
582.01	-281.73	-180.05	-119.82	-76.57	-60.7	527	-12.40
583.25	-32.31	-41.29	-125.42	-81.05	-64.06	528	-16.20
585.75	-120.02	-94.66	-88.72	-87.74	-70.69	529	0.00
588.75	-188.23	-137.17	-105.94	-89.5	-77.54	530	0.00
591.25	-259.11	-170.23	-121.27	-93.01	-81.72	531	-0.20
						532	0.00
						533	-48.00
						534	-29.40
						535	-16.80
						536	-19.20
						537	-95.20
						538	0.00
						539	-5.80
						540	-6.80
						541	0.00
						542	0.00
						543	-0.20
						544	-0.20
						545	0.00
						546	0.00
						547	0.00
						548	0.00
						549	0.00
						550	0.00
						551	-0.80
						552	-2.00
						553	-33.00
						554	-36.40
						555	-0.20
						556	0.00
						557	-25.00
						558	-1.00
						559	-6.00
						560	-27.40
						561	0.00
						562	-3.80
						563	0.00
						564	-13.40
						565	-7.80
						566	-6.80
						567	-1.00
						568	0.00
						569	0.00
						570	-39.20

												571	0.00
												572	0.00
												573	-1.20
												574	0.00
												575	0.00
												576	0.00
												577	0.00
												578	0.00
												579	-0.20
												580	0.00
												581	0.00
												582	-42.60
												583	-0.20
												584	0.00
												585	0.00
												586	-0.80
												587	-0.80
												588	0.00
												589	0.00
												590	0.00
												591	0.00
												592	0.00

Hand tensiometer data, 20 t ha⁻¹ biochar

HT day	T15	T15 err	T30	T30 err	T60	T60 err	T120	T120 err	T200	T200
19.5	-63.43	2.62	-76.60	0.00	-72.90	9.81	-40.00	0.00	-60.40	4.90
21.5	-140.80	5.23	-113.63	4.33	-79.14	5.62	-52.30	7.98	-55.75	2.75
22.5	-81.08	11.01	-74.18	14.52	-68.15	10.98	-49.73	7.37	-41.65	11.35
23.5	-98.00	7.41	-88.68	7.81	-78.55	9.84	-46.23	11.25	-53.88	8.27
24.5	-106.47	9.51	-97.52	7.99	-82.98	7.09	-45.57	7.81	-63.70	6.40
27.5	-65.10	6.92	-59.14	12.77	-61.02	13.12	-51.60	5.81	-68.20	8.65
28.5	-66.68	5.04	-61.77	7.49	-59.62	9.49	-32.63	6.51	-47.48	7.22
29.5	-64.38	5.30	-62.88	7.43	-52.25	8.92	-37.93	6.68	-69.60	4.90
30.5	-37.96	4.51	-36.75	5.87	-40.96	7.69	-31.04	6.34	-64.20	9.50
32.5	-52.08	2.96	-49.90	4.61	-43.22	2.39	-26.85	6.15	-45.20	15.80
33.5	-52.60	1.86	-46.83	3.49	-39.80	3.18	-32.12	3.15	-39.20	5.80
34.5	-51.63	2.36	-49.75	3.26	-41.28	5.65	-30.00	3.42	-33.70	0.00
35.5	-81.53	3.62	-89.80	12.24	-50.00	4.45	-37.00	6.20	-11.80	0.00
36.5	-75.82	4.55	-72.98	5.30	-59.62	3.52	-38.67	1.64	-32.50	18.50
37.5	-62.52	4.18	-58.12	6.26	-42.48	6.29	-35.97	2.49	-30.35	15.45
39.5	-31.47	4.44	-35.52	12.52	-44.70	8.01	-31.55	7.66	-37.03	6.11
40.5	-74.58	4.15	-64.92	6.39	-43.40	6.92	-32.03	2.78	-33.45	3.93
41.5	-58.92	2.23	-62.45	6.10	-46.67	6.56	-30.55	4.85	-29.25	4.48
42.5	-96.52	2.97	-83.42	6.20	-47.50	10.33	-38.00	3.51	-27.68	6.76
43.5	-123.70	6.83	-99.70	7.99	-70.58	6.63	-32.60	7.70	-28.05	0.05
48.5	-27.90	3.01	-28.70	7.35	-33.36	6.76	-28.50	6.96	-27.00	6.62

49.5	-70.72	2.28	-57.97	2.93	-40.57	5.35	-31.76	4.60	-33.26	8.29
50.5	-104.45	3.84	-80.02	3.42	-52.58	6.55	-36.82	4.21	-32.14	5.95
51.5	-64.90	4.29	-66.35	6.08	-53.20	6.81	-43.03	3.68	-38.30	5.02
53.5	-117.88	8.25	-95.53	3.87	-68.60	4.56	-53.10	2.42	-47.70	3.79
54.5	-102.75	3.40	-87.38	4.45	-70.03	5.48	-56.33	1.35	-48.98	2.47
55.5	-125.15	6.72	-101.15	4.67	-73.53	7.14	-52.22	4.43	-45.68	6.01
56.5	-80.88	20.24	-86.30	13.72	-73.17	7.11	-54.10	5.28	-45.94	6.72
57.5	-55.25	4.17	-48.18	4.75	-48.05	7.28	-45.77	10.41	-41.74	8.52
58.5	-74.87	2.34	-60.47	3.60	-46.52	3.65	-37.92	5.99	-30.38	6.81
61.5	-348.28	53.24	-138.87	10.88	-85.80	9.70	-61.30	1.27	-47.04	5.88
62.5	-397.97	64.30	-141.54	15.31	-90.12	8.61	-56.78	5.19	-44.50	4.77
63.5	-373.18	62.38	-175.62	13.60	-104.20	8.94	-62.78	6.90	-52.90	5.10
64.5	-60.08	6.20	-51.32	10.43	-54.55	15.69	-41.05	12.14	-27.40	10.15
68.5	-287.16	44.46	-144.00	0.00	-88.00	12.85	-66.98	6.07	-55.35	6.75
69.5	-479.20	73.05	-152.32	20.72	-111.38	7.29	-72.96	5.94	-53.08	6.94
71.5	-472.30	80.17	-224.00	19.69	-127.82	9.31	-78.63	3.48	-66.68	3.37
72.5	-573.38	50.01	-231.44	42.89	-150.75	7.58	-89.78	3.42	-70.10	10.17
73.5	-29.57	5.17	-43.80	34.46	-53.86	26.05	-41.96	18.61	-42.03	18.91
74.5	-69.95	4.49	-69.80	14.73	-59.60	16.14	-54.43	14.01	-36.40	12.98
75.5	-34.40	3.40	-42.23	11.54	-37.03	6.29	-56.05	12.43	-32.42	11.91
76.5	-44.75	3.00	-52.48	6.66	-46.63	5.97	-56.28	12.78	-41.54	10.54
77.5	-25.58	2.54	-29.17	7.55	-44.00	5.46	-50.68	8.24	-45.03	9.53
78.5	-72.45	3.49	-57.58	4.78	-44.37	4.06	-41.80	9.50	-39.34	8.28
80.5	-117.18	10.82	-88.32	5.32	-57.03	9.28	-52.00	3.23	-46.22	6.19
81.5	-56.53	2.87	-50.87	4.37	-40.07	4.17	-38.77	4.69	-39.56	6.86
82.5	-74.28	7.10	-72.25	5.10	-54.67	3.48	-43.37	3.01	-38.90	6.26
84.5	-43.75	3.82	-65.70	9.18	-67.68	7.37	-55.62	5.09	-48.84	6.72
85.5	-58.70	3.53	-57.73	3.60	-45.73	4.63	-51.02	4.61	-49.86	5.32
86.5	-67.33	5.38	-61.55	3.03	-41.85	4.81	-42.98	6.31	-46.58	6.52
87.5	-91.33	4.03	-79.25	3.87	-57.80	2.01	-39.10	4.25	-39.98	5.70
89.5	-70.67	2.63	-68.38	6.20	-61.20	6.44	-48.82	4.62	-45.90	5.95
90.5	-104.42	6.34	-90.17	5.21	-69.52	4.38	-56.65	3.15	-50.86	7.03
91.5	-169.63	23.68	-110.23	7.30	-76.47	4.06	-55.90	3.19	-46.63	4.77
92.5	-55.55	3.02	-47.42	3.36	-42.72	3.65	-45.90	7.86	-44.52	8.26
93.5	-59.52	2.67	-50.50	4.31	-43.08	3.36	-37.38	6.80	-29.22	9.25
94.5	-109.95	10.13	-84.44	4.65	-60.48	2.83	-44.98	2.92	-32.46	5.42
96.5	-37.00	4.66	-40.78	6.05	-38.97	4.18	-34.50	4.73	-26.68	9.08
97.5	-47.20	2.20	-42.68	3.65	-37.15	2.31	-33.63	4.75	-24.96	6.41
98.5	-54.42	5.44	-49.00	4.22	-35.30	2.58	-23.05	3.40	-21.90	4.58
99.5	-92.53	6.95	-83.35	10.99	-51.93	3.71	-32.47	3.61	-24.36	4.37
100.5	-121.67	10.81	-91.12	3.87	-62.67	2.89	-38.98	3.21	-32.35	3.83
101.5	-149.13	12.15	-108.42	4.50	-74.05	2.37	-45.03	3.53	-36.83	1.67
104.5	-67.28	5.76	-47.67	6.28	-47.17	3.41	-45.58	6.82	-41.48	9.11
105.5	-103.83	22.04	-62.58	4.06	-41.22	5.44	-36.90	2.75	-27.75	3.86
106.5	-125.12	18.62	-92.77	2.49	-61.67	7.06	-49.18	4.88	-36.45	4.51
107.5	-53.08	5.98	-41.27	3.27	-29.57	2.43	-39.10	7.91	-34.85	8.92
108.5	-54.08	5.32	-42.25	3.71	-35.20	2.42	-32.05	1.33	-24.95	4.30
110.5	-54.58	19.86	-29.17	3.67	-22.08	3.86	-23.10	5.60	-23.30	0.00

111.5	-65.50	3.57	-51.47	5.13	-42.78	3.48	-20.92	3.89	-16.95	1.92
112.5	-24.53	4.06	-19.42	4.85	-20.25	6.59	-27.50	5.93	-23.36	2.27
113.5	-57.40	3.77	-51.45	2.68	-37.22	3.58	-29.44	2.29	-19.36	3.33
114.5	-82.30	4.13	-63.94	7.38	-51.32	4.31	-30.00	3.48	-21.38	0.96
115.5	-95.45	9.52	-80.55	5.52	-61.97	7.54	-40.18	5.01	-24.46	4.09
116.5	-96.60	3.08	-83.85	4.66	-67.13	3.99	-45.50	4.20	-27.30	7.11
118.5	-148.28	13.01	-94.83	13.56	-78.30	3.21	-52.90	4.65	-75.73	29.17
119.5	-82.17	14.19	-91.75	7.03	-76.08	1.81	-55.95	3.94	-43.10	7.28
120.5	-75.10	13.05	-81.97	7.42	-71.38	7.09	-62.32	4.95	-56.28	2.58
121.5	-104.32	9.96	-91.55	7.79	-80.13	5.29	-62.44	6.66	-51.63	9.96
122.5	-47.55	7.36	-48.65	5.35	-61.65	10.56	-60.38	5.21	-56.85	10.99
124.5	-84.72	14.50	-82.53	6.57	-64.38	4.27	-54.50	5.49	-54.36	10.08
125.5	-92.65	14.95	-87.72	7.23	-69.45	3.18	-49.33	9.77	-49.76	9.49
126.5	-98.67	10.98	-94.40	6.24	-72.25	6.70	-59.37	4.23	-56.10	6.28
127.5	-96.13	3.68	-91.13	5.76	-74.43	10.79	-63.95	6.80	-52.95	13.38
128.5	-117.90	6.14	-103.85	3.02	-78.97	6.89	-70.98	3.40	-66.63	5.66
129.5	-56.83	11.62	-76.92	17.43	-80.94	11.29	-77.55	3.71	-81.95	3.14
131.5	-54.87	5.53	-45.00	9.84	-45.50	6.66	-54.88	11.20	-59.74	10.59
132.5	-85.48	5.04	-74.22	6.34	-53.45	3.63	-45.72	6.13	-51.74	11.52
133.5	-89.88	6.70	-78.72	5.97	-60.48	3.59	-35.78	4.56	-50.50	11.06
134.5	-55.76	1.93	-56.03	3.96	-51.23	6.95	-48.16	4.38	-59.16	6.92
135.5	-73.65	3.32	-68.73	3.38	-59.94	2.54	-42.38	5.34	-51.13	10.65
136.5	-90.55	6.95	-79.42	7.14	-64.32	2.13	-39.37	5.82	-47.38	11.31
138.5	-132.37	8.67	-110.43	6.43	-83.54	5.03	-56.87	4.48	-61.00	14.37
139.5	-102.47	8.86	-99.38	11.40	-87.74	5.14	-48.70	4.89	-47.25	13.95
140.5	-113.90	7.01	-88.30	13.11	-80.70	6.48	-48.28	8.37	-62.93	6.76
141.5	-16.85	3.70	-16.67	6.17	-8.14	2.14	-16.18	8.04	-41.40	39.10
142.5	-65.87	1.86	-47.87	3.19	-35.28	5.00	-20.58	3.59	-68.50	0.00
143.5	-78.57	2.06	-59.00	3.69	-48.65	3.63	-21.18	2.43	-27.30	7.03
145.5	-115.00	3.56	-86.05	4.00	-56.50	4.65	-27.83	5.70	-31.40	7.73
146.5	-146.37	3.97	-106.83	4.11	-75.78	4.80	-40.98	5.44	-26.80	4.79
147.5	-61.50	2.40	-57.50	3.03	-62.37	2.20	-51.75	5.78	-41.20	2.06
148.5	-88.02	4.10	-71.75	3.38	-57.30	4.02	-44.47	4.20	-45.40	4.46
149.5	-110.68	4.01	-85.50	4.71	-56.70	4.51	-46.38	4.53	-45.08	5.05
150.5	-32.33	5.38	-21.52	3.82	-23.44	3.61	-21.60	5.84	-28.73	11.94
152.5	-65.30	5.98	-51.25	4.46	-44.18	5.70	-29.03	4.13	-33.40	6.38
153.5	-93.13	2.05	-80.17	1.92	-59.16	2.84	-41.00	2.21	-38.90	3.33
154.5	-109.63	3.19	-88.35	3.09	-56.32	7.02	-39.42	3.13	-37.34	3.36
155.5	-121.63	5.44	-104.43	3.11	-61.98	9.31	-42.95	3.21	-43.04	4.33
156.5	-130.30	12.71	-111.07	2.24	-78.93	18.74	-44.27	3.88	-42.10	3.67
157.5	-20.42	4.07	-24.68	11.21	-62.00	25.51	-41.40	6.41	-45.83	3.30
159.5	-62.67	2.72	-50.62	3.36	-35.87	2.53	-20.60	3.23	-16.96	2.74
160.5	-87.75	7.09	-74.33	1.75	-54.50	2.16	-31.33	2.96	-23.04	2.73
161.5	-77.00	3.26	-77.40	2.26	-56.88	5.33	-33.37	4.30	-32.12	3.60
162.5	-65.32	1.55	-57.58	3.80	-49.64	3.78	-33.84	6.29	-30.00	3.62
163.5	-96.98	1.66	-77.67	3.30	-54.82	7.47	-38.68	5.30	-35.90	4.06
164.5	-40.33	3.41	-38.63	5.78	-48.57	6.84	-40.18	4.20	-38.58	5.03
167.5	-105.58	3.46	-86.50	4.21	-58.37	4.77	-37.83	4.39	-40.92	3.48

168.5	-132.02	3.65	-104.42	1.68	-64.38	4.04	-42.83	3.17	-40.78	4.79
169.5	-19.05	3.79	-21.60	9.39	-31.77	14.41	-41.35	5.28	-48.90	3.89
170.5	-69.87	4.70	-56.17	4.11	-46.43	4.93	-33.83	6.81	-38.40	8.50
171.5	-60.03	5.01	-67.20	2.83	-56.52	6.49	-35.17	6.72	-39.96	8.30
173.5	-59.78	2.29	-62.17	3.75	-47.52	7.30	-38.17	4.99	-40.95	7.05
174.5	-31.08	2.95	-22.22	3.32	-19.58	4.89	-37.00	16.56	-43.25	18.25
175.5	-70.83	4.36	-55.25	2.44	-41.32	2.14	-21.67	4.78	-31.55	10.62
176.5	-93.72	1.70	-75.75	1.30	-52.28	2.55	-28.00	2.73	-29.38	5.20
177.5	-129.32	3.22	-99.10	2.14	-67.38	2.60	-36.67	3.90	-36.74	4.72
180.5	-135.57	2.74	-113.22	8.54	-83.72	8.00	-39.33	3.82	-59.50	11.68
181.5	-22.20	2.37	-24.03	7.68	-45.12	11.44	-50.17	3.04	-49.34	1.95
182.5	-56.03	2.37	-41.76	5.30	-65.48	23.48	-27.83	6.48	-37.05	7.36
183.5	-82.02	3.51	-75.38	7.41	-50.73	3.44	-29.17	4.18	-33.36	6.13
184.5	-79.05	9.41	-80.38	4.75	-64.22	4.80	-38.42	3.45	-38.20	5.92
185.5	-82.88	4.14	-72.33	3.65	-66.80	5.18	-44.17	4.47	-44.48	7.35
187.5	-79.18	5.11	-70.50	5.16	-66.95	5.75	-50.15	2.94	-44.82	5.90
188.5	-35.92	3.45	-31.00	6.20	-47.67	11.99	-58.20	5.65	-50.70	7.45
189.5	-79.88	10.78	-59.77	2.19	-53.17	3.88	-40.82	6.10	-36.52	8.26
190.5	-47.68	3.65	-45.00	3.12	-47.05	5.35	-38.08	4.39	-35.78	5.72
191.5	-82.58	3.22	-69.08	1.88	-54.52	4.16	-39.57	5.18	-35.66	7.71
194.5	-60.20	3.53	-53.22	1.82	-41.58	3.06	-29.63	4.17	-28.74	9.17
195.5	-80.92	2.28	-69.82	1.75	-47.75	4.18	-28.82	3.75	-26.10	4.62
196.5	-53.25	5.27	-54.02	5.17	-67.45	8.19	-49.78	4.14	-41.58	10.63
197.5	-85.28	5.85	-73.25	3.19	-63.68	3.52	-45.62	3.68	-39.30	6.31
198.5	-112.55	3.94	-95.25	3.01	-69.90	2.35	-44.82	3.26	-39.26	5.02
201.5	-108.47	14.27	-100.50	16.05	-80.50	4.24	-59.97	4.07	-42.65	6.90
204.5	-214.08	21.82	-165.30	15.99	-111.17	7.75	-72.17	4.45	-58.50	5.74
205.5	-263.37	24.14	-178.64	7.11	-120.25	8.31	-73.50	5.14	-65.56	5.88
209.5	-431.83	83.29	-311.00	58.90	-158.50	18.29	-83.33	4.89	-72.00	5.43
212.5	-557.25	84.13	-397.00	89.60	-220.33	40.83	-83.00	12.68	-72.40	6.77
216.5	-554.00	92.57	-565.00	81.51	-330.50	76.00	-127.80	4.32	-106.67	0.67
219.5	-285.33	71.72	-449.00	64.33	-290.67	43.50	-129.83	5.87	-109.80	5.77
223.5	-407.92	81.47	-561.24	18.92	-328.88	58.29	-150.33	8.53	-106.60	23.87
226.5	-440.87	112.04	-582.20	96.43	-405.22	91.41	-183.00	6.62	-137.08	3.93
233.5	-196.27	66.49	-271.92	51.00	-441.03	97.33	-226.34	58.64	-160.80	37.94
237.5	-170.90	36.24	-125.00	30.99	-191.42	111.04	-157.58	40.11	-111.25	40.85
244.5	-179.10	53.21	-196.50	69.82	-118.18	57.20	-133.24	58.19	-53.40	17.21
328.5	-73.50	5.78	-65.38	5.29	-465.17	89.84	-453.53	30.67	-382.57	19.22
338.5	-258.83	51.14	-368.00	26.76	-324.17	70.58	-383.00	72.77	-357.80	50.59
352.5	-90.83	8.35	-109.33	42.72	-214.40	65.21	-379.00	73.80	-258.20	59.16
359.5	-66.67	4.76	-57.00	4.29	-47.83	2.21	-96.00	43.88	-188.50	88.50
365.5	-33.17	2.63	-41.00	8.23	-30.33	1.15	-41.67	17.69	-227.00	0.00
373.5	-65.00	1.98	-56.33	3.28	-43.20	3.77	-24.80	5.16	-14.50	2.60
380.5	-118.33	7.69	-97.17	7.91	-73.33	7.68	-45.00	7.00	-35.40	5.67
388.5	-52.67	3.01	-60.50	7.18	-37.50	2.72	-27.00	3.39	-9.33	0.88
393.5	-43.50	3.58	-46.67	6.89	-43.50	4.30	-36.00	7.12	-22.00	3.00
401.5	-50.50	4.97	-52.00	8.96	-36.00	2.55	-21.83	3.57	-58.60	42.21

407.5	-54.33	1.69	-48.67	2.32	-41.67	1.87	-29.50	3.27	-22.50	2.96
414.5	-70.20	2.63	-55.33	4.03	-50.00	4.71	-41.60	4.41	-44.00	2.52
421.5	-78.00	5.88	-65.33	1.20	-48.33	1.43	-32.17	3.18	-24.60	3.17
426.5	-69.83	3.85	-65.33	1.23	-51.00	2.13	-35.83	4.09	-27.60	3.14
435.5	-44.50	2.40	-46.50	3.07	-39.50	3.54	-27.67	3.45	-15.50	2.96
442.5	-149.17	24.08	-122.33	2.58	-87.00	4.03	-61.80	2.15	-42.80	7.77
447.5	-71.60	12.26	-69.83	1.42	-47.33	4.12	-25.17	4.12	-27.00	7.02
456.5	-108.00	3.97	-103.67	9.27	-90.83	4.53	-60.17	4.28	-50.40	7.76
463.5	-117.67	16.17	-92.83	16.26	-94.67	13.94	-75.67	7.24	-88.50	5.56
470.5	-52.67	1.94	-58.67	4.36	-47.83	10.12	-42.80	11.43	-46.25	20.68
477.5	-121.17	3.72	-109.33	4.17	-71.83	4.33	-50.00	2.96	-43.50	6.26
484.5	-108.33	2.87	-100.50	2.85	-64.67	4.50	-49.67	2.29	-39.75	10.29
491.5	-94.33	4.74	-94.17	5.41	-69.33	7.84	-56.00	6.31	-69.60	5.35
498.5	-77.33	6.50	-76.17	3.42	-53.00	5.09	-35.67	6.05	-50.00	8.86
505.5	-117.83	8.39	-98.33	5.14	-67.50	6.26	-40.33	5.93	-34.33	4.25
512.5	-81.33	10.65	-75.67	1.09	-53.33	3.90	-28.17	3.97	-14.40	3.20
519.5	-79.00	8.55	-74.33	1.87	-51.33	4.10	-27.83	5.08	-21.00	1.78
526.5	-43.00	3.30	-68.83	29.01	-48.33	8.58	-41.33	7.65	-49.25	4.52
533.5	-179.00	13.79	-124.50	5.46	-72.67	6.42	-40.83	6.38	-37.40	4.97
540.5	-97.50	4.43	-79.33	4.07	-63.67	1.91	-47.83	2.50	-36.00	1.08
547.5	-322.67	65.58	-237.40	19.42	-113.00	8.94	-66.17	7.52	-65.80	4.00
554.5	-26.67	9.70	-9.33	3.84	-72.60	45.95	-97.00	24.00	-60.80	15.22
561.5	-53.20	4.28	-51.17	2.66	-40.83	1.30	-27.60	4.79	-22.00	6.88
568.5	-81.67	6.09	-76.67	2.08	-60.33	4.07	-45.40	8.03	-39.00	3.03
575.5	-126.83	5.44	-103.17	9.89	-83.00	5.84	-43.20	8.25	-34.60	5.52
581.5	-340.50	13.06	-236.60	19.86	-161.83	8.40	-92.50	2.33	-65.50	11.41
590.5	-171.50	13.23	-108.67	22.10	-99.00	5.92	-64.50	6.37	-64.60	7.30

Table C11A. Particle size distribution of biochar (% of total) (no data for 2002 because original sample not available, only leftovers from sieving).

	2006	2004
>2mm	44.85	47.48
1-2mm	8.66	7.43
500-1000 um	10.93	7.66
250-500	8.98	6.78
100-250	6.68	5.94
53-100	3.32	3.21
38-53	10.54	2.09
<38	6.02	19.42
total	99.99	100.02

Table C12. Stomatal conductance measured on several plants per plot (cm/s)

	5 June 2006, maize 6 lf stage					
rep	1	1	2	2	3	3
trt	20	0	20	0	20	0
	stom.cond	stom.cond	stom.cond	stom.cond	stom.cond	stom.cond
	2.61	1.67	1.6	1.23	2.64	1.55
	1.9	1.49	2.69	1.15	1.66	1.94
	1.83	1	2.2	1.72	1.99	2.19
	2.04	1.05	2.08	1.36	1.52	2.18
	0.72	1.57	2.18	1.05	1.8	1.4
	0.97	1.01	1.99	1.12	1.64	0.87
	1.14	1.82	2.55	1.1	1.46	1.77
	1.99	1.59	2.52	2.15	1.83	1.59
	1.9	1.6	2.02	1.41	2	1.79
	1.12	0.75	2.29	0.87	1.43	1.07
	2.1	1.05	1.77	1.02	1.31	0.94
	0.97	0.77	1.12	0.96	1.07	0.83

	12 July 2006, maize tasseling					
rep	1	1	2	2	3	3
trt	20	0	20	0	20	0
	1-T	1-C	2-T	2-C	3-T	3-C
	stom.cond	stom.cond	stom.cond	stom.cond	stom.cond	stom.cond
	1.43	0.89	0.49	0.64	0.74	0.8
	1.56	0.37	0.73	0.49	0.53	0.77
	1.26	0.48	0.88	0.42	0.86	0.68
	1.54	0.54	0.94	0.57	0.86	0.71
	1.23	0.59	0.73	0.42	0.9	0.89
	1.3	0.69	0.7	0.64	0.63	0.88
	1.07	0.46	1.08	0.57	0.79	0.86
	0.8	0.52	0.68	0.62	0.94	1.14
	0.85	0.54	0.58	1.05	0.63	0.94
	1.17	0.69	0.9	0.65	0.63	0.82

	2 Aug 06, maize grain fill					
rep	1	1	2	2	3	3
trt	20	0	20	0	20	0
	1-T	1-C	2-T	2-C	3-T	3-C
	0.74	0.64	0.57	0.66	0.51	0.69

	0.71	0.54	0.47	0.5	0.52	0.55
	0.62	0.77	0.72	0.63	0.66	0.51
	0.68	0.43	0.69	0.62	0.48	0.39
	0.75	0.36	0.65	0.57	0.53	0.57
	0.71	0.4	0.68	0.41	0.34	0.69
	0.78	0.51	0.4	0.43	0.78	0.36
	0.57	0.78	0.71	0.58	0.51	0.67
	0.6	0.41	0.58	0.54	0.49	0.65
	0.54	0.43	0.5	0.6	0.42	0.66
	0.73	0.49	0.88	0.47	0.56	0.64
	0.57	0.33	0.43	0.44	0.49	0.63

	Oct 19, soybean flowering					
rep	1	1	2	2	3	3
trt	20	0	20	0	20	0
	1-T	1-C	2-T	2-C	3-T	3-C
	1.72	1.39	1.61	0.62	1.63	2.54
	1.93	1.09	1.58	0.7	1.97	2.15
	1.43	1.29	2.42	0.52	1.35	1.7
	1.32	2.38	1.4	1.44	1.31	2.09
	1.82	1.93	2.16	0.77	2.37	1.15
	2	2.17	1.87	0.91	2.17	1.58
	1.77	0.71	2.9	2.1	1.49	1.39
	1.78	1.44	1.69	1.99	1.36	1.76
	2.17	1.32	1.44	1.87	1.38	2.21
	1.88	0.9	1.24	1.64	2.61	1
	2.23	1.65	1.54	0.64	2.68	0.96
	1.63	1.12	1.67	1.58	1.92	2.14

	Nov 22, soybean full grain					
rep	1	1	2	2	3	3
trt	20	0	20	0	20	0
	1-T	1-C	2-T	2-C	3-T	3-C
	1.31	1.25	1.82	1.31	1.74	1.89
	2.51	2.3	0.91	1.82	1.33	1.73
	1.79	2.78	1.47	0.92	0.88	0.77
	2.45	1.99	0.89	1.82	1.41	2.35
	2.42	2.52	1.85	0.87	1.82	1.37
	0.69	1.75	2.87	1.77	1.79	0.94
	2.19	0.91	1.66	1.62	2.36	2.76
	2.48	2.04	2.59	2.11	2.23	2.01
	2	1.37	1.85	1.45	1.75	2.14
	2.25	1.24	2.23	2.46	1.73	0.95

Table C13. Weather data 2005 (missing data indicated by -999)

model			GOOD	free- draining	max temp	min temp	rain	cumul rain
day	month	day	DAY	consec day	°C	°C	mm	mm
1	5	17	13		31.2	23.1	0.00	0.00
2	5	18	14		34	23.4	38.07	38.07
3	5	19	15		28.6	23.6	1.43	39.50
4	5	20	16		30	22.5	0.00	39.50
5	5	21	17		33.4	22.8	0.00	39.50
6	5	22	18	1	33.4	23.5	5.35	44.85
7	5	23	19	2	30.8	22	11.24	56.09
8	5	24	20	3	32.8	23.2	0.00	56.09
9	5	25	21	4	34	23.1	3.39	59.48
10	5	26	22	5	32.2	24	11.90	71.38
11	5	27	23	6	31.7	23	2.73	74.11
12	5	28	24	7	31.6	21.5	0.00	74.11
13	5	29	25	8	31.2	23.2	6.01	80.12
14	5	30	26	9	32.5	23	22.37	102.49
15	5	31	27	10	30.4	22.8	10.59	113.07
16	6	1	28	11	31.4	21.6	0.00	113.07
17	6	2	29	12	30	22.4	32.18	145.26
18	6	3	30	13	-999.00	22.2	7.97	153.22
19	6	4	31	14	29	22	9.28	162.50
20	6	5	32	15	28.8	22.5	16.48	178.98
21	6	6	33	16	30.7	22.3	4.70	183.68
22	6	7	34	17	31.2	21.8	4.70	188.38
23	6	8	35	18	33.2	22.2	6.66	195.04
24	6	9	36	19	28.9	22.5	19.09	214.13
25	6	10	37	20	30.6	22	0.00	214.13
26	6	11	38	21	33.6	22.3	0.00	214.13
27	6	12	39	22	28.2	21.4	34.15	248.28
28	6	13	40	23	29.7	21	6.01	254.28
29	6	14	41	24	32.4	21.3	2.08	256.36
30	6	15	42	25	33.5	22.1	0.00	256.36
31	6	16	43	26	33.2	23	0.00	256.36
32	6	17	44	27	34.2	23.1	0.00	256.36
33	6	18	45	28	29.5	23.8	58.36	314.72
34	6	19	46	29	30.8	24.2	6.66	321.38
35	6	20	47	30	26.8	21.2	16.48	337.86
36	6	21	48	31	28	21.3	11.24	349.10
37	6	22	49	32	32.5	20.8	0.77	349.87
38	6	23	50	33	33	21.7	10.59	360.46
39	6	24	51	34	28.7	21.9	6.66	367.12
40	6	25	52	35	30.5	21.9	0.00	367.12
41	6	26	53	36	27	22.7	0.00	367.12
42	6	27	54	37	30.7	21.7	2.73	369.86
43	6	28	55	38	32	22.1	0.00	369.86

44	6	29	56	39	30.4	23.8	51.16	421.02
45	6	30	57	40	28	20.4	15.82	436.84
46	7	1	58	41	29.4	20.5	0.77	437.61
47	7	2	59	42	32	20.8	0.00	437.61
48	7	3	60	43	33.5	22.2	0.00	437.61
49	7	4	61	44	33.2	22	0.00	437.61
50	7	5	62	45	31.2	22.6	2.73	440.35
51	7	6	63	46	31	21.9	77.99	518.34
52	7	7	64	47	30.2	21	4.04	522.38
53	7	8	65	48	29.8	21.2	0.00	522.38
54	7	9	66	49	29.2	19.8	0.00	522.38
55	7	10	67	50	30.8	20	0.00	522.38
56	7	11	68	51	30.5	21	0.00	522.38
57	7	12	69	52	30.3	22	4.04	526.42
58	7	13	70	53	32	20.3	0.00	526.42
59	7	14	71	54	33	21.2	0.00	526.42
60	7	15	72	55	33.4	21.3	12.55	538.97
61	7	16	73	56	31.4	23.8	98.28	637.25
62	7	17	74	57	32	22.4	0.77	638.02
63	7	18	75	58	29	23.4	18.44	656.46
64	7	19	76	59	26.4	21.5	7.32	663.78
65	7	20	77	60	30.2	21	13.86	677.64
66	7	21	78	61	28.8	20.8	0.00	677.64
67	7	22	79	62	29.7	21.2	3.39	681.03
68	7	23	80	63	31.8	22	28.26	709.28
69	7	24	81	64	34.1	22.2	0.77	710.05
70	7	25	82	65	30.6	22	1.43	711.48
71	7	26	83	66	31	23.2	7.32	718.80
72	7	27	84	67	31.6	21.2	16.48	735.27
73	7	28	85	68	28	21	8.62	743.90
74	7	29	86	69	31.5	22.2	1.43	745.32
75	7	30	87	70	31.2	22.6	0.00	745.32
76	7	31	88	71	32	22.2	11.90	757.22
77	8	1	89	72	31.3	23.2	3.39	760.61
78	8	2	90	73	30.5	23.1	0.00	760.61
79	8	3	91	74	29.6	23.8	26.29	786.90
80	8	4	92	75	31.4	22.7	9.28	796.18
81	8	5	93	76	30	22.7	0.00	796.18
82	8	6	94	77	31	23	11.24	807.42
83	8	7	95	78	27.4	22.7	11.90	819.32
84	8	8	96	79	29.3	23.3	13.21	832.52
85	8	9	97	80	30	22.1	9.93	842.45
86	8	10	98	81	30.8	22	0.00	842.45
87	8	11	99	82	29.2	21	0.00	842.45
88	8	12	100	83	28.6	22.8	0.00	842.45
89	8	13	101	84	29.5	23.6	0.00	842.45
90	8	14	102	85	29.8	23.5	0.00	842.45

91	8	15	103	86	29	22.6	34.80	877.26
92	8	16	104	87	30.2	22.1	0.77	878.03
93	8	17	105	88	33	22	4.70	882.72
94	8	18	106	89	29.2	22	21.06	903.78
95	8	19	107	90	30.1	22	16.48	920.26
96	8	20	108	91	32	22.8	0.00	920.26
97	8	21	109	92	31.6	22.6	11.24	931.50
98	8	22	110	93	32	23	30.22	961.72
99	8	23	111	94	33.2	23	0.00	961.72
100	8	24	112	95	28	23.2	33.49	995.21
101	8	25	113	96	30.4	22	0.77	995.98
102	8	26	114	97	34.2	22.7	0.00	995.98
103	8	27	115	98	33	23.8	7.32	1003.30
104	8	28	116	99	32	23.5	0.00	1003.30
105	8	29	117	100	33.5	22.3	0.00	1003.30
106	8	30	118	101	31.2	24	6.66	1009.96
107	8	31	119	102	32.6	22.3	6.01	1015.97
108	9	1	120	103	32.6	22.8	0.00	1015.97
109	9	2	121	104	32.5	24	17.79	1033.75
110	9	3	122	105	32.3	22.5	1.43	1035.18
111	9	4	123	106	30.4	23	1.43	1036.60
112	9	5	124	107	32.4	23.8	2.08	1038.68
113	9	6	125	108	32	23	0.77	1039.46
114	9	7	126	109	28.5	21	6.01	1045.46
115	9	8	127	110	31.8	20.6	0.00	1045.46
116	9	9	128	111	27	22	22.00	1067.46
117	9	10	129	112	33.2	20	0.50	1067.96
118	9	11	130	113	33	23	2.00	1069.96
119	9	12	131	114	31.2	22.6	0.00	1069.96
120	9	13	132	115	30.5	22.5	8.00	1077.96
121	9	14	133	116	31.2	21.5	7.00	1084.96
122	9	15	134	117	25.4	22	0.00	1084.96
123	9	16	135	118	31	21.8	0.00	1084.96
124	9	17	136	119	33.2	22.8	0.00	1084.96
125	9	18	137	120	33	23	0.00	1084.96
126	9	19	138	121		22	0.40	1085.36
127	9	20	139	122	33	23	1.43	1086.79
128	9	21	140	123	33.4	22.3	0.00	1086.79
129	9	22	141	124	32.2	23.3	77.99	1164.78
130	9	23	142	125	32.3	23.6	1.43	1166.20
131	9	24	143	126	34	22	0.00	1166.20
132	9	25	144	127	33.4	22.8	0.00	1166.20
133	9	26	145	128	33.2	22.6	0.00	1166.20
134	9	27	146	129	30.4	24	13.86	1180.06
135	9	28	147	130	32.6	20.4	0.00	1180.06
136	9	29	148	131	33	22.2	0.00	1180.06
137	9	30	149	132	33.3	23	4.70	1184.76

138	10	1	150	133	32.8	22.4	44.62	1229.38
139	10	2	151	134	33.8	22.6	8.62	1238.00
140	10	3	152	135	33.8	22.2	0.00	1238.00
141	10	4	153	136	34.2	22	12.55	1250.55
142	10	5	154	137	34.3	23	0.77	1251.32
143	10	6	155	138	33.4	22.8	0.77	1252.09
144	10	7	156	139	34.4	21.8	0.77	1252.87
145	10	8	157	140	33.4	22.7	112.67	1365.54
146	10	9	158	141	32.7	21.5	91.08	1456.62
147	10	10	159	142	32.8	23	0.00	1456.62
148	10	11	160	143	33.4	23.8	0.77	1457.39
149	10	12	161	144	31.3	21	11.90	1469.29
150	10	13	162	145	33.3	23	0.00	1469.29
151	10	14	163	146	32.8	23.6	11.24	1480.53
152	10	15	164	147	28.2	22.2	4.70	1485.23
153	10	16	165	148	30.4	23	2.08	1487.31
154	10	17	166	149	32	21.8	0.00	1487.31
155	10	18	167	150	33.6	23.5	0.00	1487.31
156	10	19	168	151	32	23	7.97	1495.28
157	10	20	169	152	28	23.1	33.49	1528.77
158	10	21	170	153	33.8	23	0.00	1528.77
159	10	22	171	154	28.2	23	6.01	1534.77
160	10	23	172	155	33	22.6	3.39	1538.16
161	10	24	173	156	32	23	12.55	1550.71
162	10	25	174	157	32	21	52.47	1603.18
163	10	26	175	158	32.2	22	0.00	1603.18
164	10	27	176	159	33.2	23	0.00	1603.18
165	10	28	177	160	32	23.1	15.17	1618.35
166	10	29	178	161	30.4	20.6	2.73	1621.09
167	10	30	179	162	32.8	23.2	0.00	1621.09
168	10	31	180	163	32.8	23	0.77	1621.86
169	11	1	181	164	28.8	21.2	30.22	1652.08
170	11	2	182	165	32.4	22	0.00	1652.08
171	11	3	183	166	31.2	23	0.00	1652.08
172	11	4	184	167	28.3	21	8.62	1660.70
173	11	5	185	168	32.5	22.5	0.00	1660.70
174	11	6	186	169	27.8	23.7	7.97	1668.67
175	11	7	187	170	32	22	0.00	1668.67
176	11	8	188	171	30.4	22.4	28.91	1697.58
177	11	9	189	172	31.5	23	6.01	1703.59
178	11	10	190	173	32.4	23.1	0.00	1703.59
179	11	11	191	174	32	22.9	0.00	1703.59
180	11	12	192	175	32.2	24	0.00	1703.59
181	11	13	193	176	31.8	22	42.00	1745.59
182	11	14	194	177	32	22	0.00	1745.59
183	11	15	195	178	33.2	23.2	1.43	1747.01
184	11	16	196	179	30.7	23.3	12.55	1759.56

185	11	17	197	180	31.4	23.2	0.00	1759.56
186	11	18	198	181	32.1	23.6	0.00	1759.56
187	11	19	199	182	33.3	22.9	0.00	1759.56
188	11	20	200	183	32.1	22	15.17	1774.73
189	11	21	201	184	28	23	0.00	1774.73
190	11	22	202	185	32.8	22.8	0.00	1774.73
191	11	23	203	186	33	23.5	0.00	1774.73
192	11	24	204	187	-999.00	23	0.00	1774.73
193	11	25	205	188	-999.00	22.9	0.00	1774.73
194	11	26	206	189	-999.00	23.2	0.00	1774.73
195	11	27	207	190	-999.00	22	0.00	1774.73
196	11	28	208	191	-999.00	21	0.00	1774.73
197	11	29	209	192	-999.00	21	0.00	1774.73
198	11	30	210	193	-999.00	22.2	0.00	1774.73
199	12	1	211	194	-999.00	22.2	0.00	1774.73
200	12	2	212	195	-999.00	22	8.00	1782.73
201	12	3	213	196	-999.00	23	0.00	1782.73
202	12	4	214	197	-999.00	22.1	0.00	1782.73
203	12	5	215	198	-999.00	22.2	0.00	1782.73
204	12	6	216	199	-999.00	22	8.00	1790.73
205	12	7	217	200	-999.00	21.5	0.00	1790.73
206	12	8	218	201	-999.00	21.3	0.00	1790.73
207	12	9	219	202	-999.00	20.4	12.00	1802.73
208	12	10	220	203	-999.00	22.8	0.00	1802.73
209	12	11	221	204	-999.00	22.6	0.00	1802.73
210	12	12	222	205	-999.00	21.7	0.00	1802.73
211	12	13	223	206	-999.00	23	8.00	1810.73
212	12	14	224	207	-999.00	22	0.00	1810.73
213	12	15	225	208	-999.00	20.6	0.00	1810.73
214	12	16	226	209	-999.00	21.2	10.00	1820.73
215	12	17	227	210	-999.00	21.7	0.00	1820.73
216	12	18	228	211	-999.00	22.2	0.00	1820.73
217	12	19	229	212	-999.00	22.1	0.00	1820.73
218	12	20	230	213	-999.00	21.8	8.00	1828.73
219	12	21	231	214	-999.00	20.4	15.00	1843.73
220	12	22	232	215	-999.00	21.8	0.00	1843.73
221	12	23	233	216	-999.00	23.4	5.00	1848.73
222	12	24	234	217	-999.00	21.6	0.00	1848.73
223	12	25	235	218	-999.00	23.2	0.00	1848.73
224	12	26	236	219	-999.00	21.6	0.00	1848.73
225	12	27	237	220	-999.00	20.8	0.00	1848.73
226	12	28	238	221	-999.00	20.2	0.00	1848.73
227	12	29	239	222	-999.00	20	0.00	1848.73
228	12	30	240	223	-999.00	20.6	0.00	1848.73
229	12	31	241	224	-999.00	18.4	0.00	1848.73
230	1	1	242	225	-999.00	19.8	0.00	1848.73
231	1	2	243	226	-999.00	19.4	0.00	1848.73

232	1	3	244	227	-999.00	20.2	2.08	1850.81
233	1	4	245	228	-999.00	23	0.00	1850.81
234	1	5	246	229	-999.00	23.1	0.00	1850.81
235	1	6	247	230	-999.00	20.2	0.00	1850.81
236	1	7	248	231	-999.00	22.8	0.00	1850.81
237	1	8	249	232	-999.00	22	0.00	1850.81
238	1	9	250	233	-999.00	20.3	0.00	1850.81
239	1	10	251	234	-999.00	20	0.00	1850.81
240	1	11	252	235	-999.00	21	0.00	1850.81
241	1	12	253	236	-999.00	21.9	0.00	1850.81
242	1	13	254	237	-999.00	20	0.00	1850.81
243	1	14	255	238	-999.00	21	0.00	1850.81
244	1	15	256	239	-999.00	21.8	0.00	1850.81
245	1	16	257	240	-999.00	23.2	0.00	1850.81
246	1	17	258	241	-999.00	22.8	0.00	1850.81
247	1	18	259	242	-999.00	22.8	0.00	1850.81
248	1	19	260	243	-999.00	21.2	0.00	1850.81
249	1	20	261	244	-999.00	20.8	0.00	1850.81
250	1	21	262	245	-999.00	20.4	0.00	1850.81
251	1	22	263	246	-999.00	22.7	0.00	1850.81
252	1	23	264	247	-999.00	21.5	0.00	1850.81
253	1	24	265	248	-999.00	21	0.00	1850.81
254	1	25	266	249	-999.00	22	0.00	1850.81
255	1	26	267	250	-999.00	21.7	0.00	1850.81
256	1	27	268	251	-999.00	23	0.00	1850.81
257	1	28	269	252	-999.00	20.2	0.00	1850.81
258	1	29	270	253	-999.00	22	0.00	1850.81

GOOD	rain	sol rad	average RH	wind speed	ASCE PM	PT	root depth
DAY	cm	sun hours/d	%	km/d	mm/d	mm/d	
13	0.00	0.90	86.00	66	2.4	2.83	0
14	3.81	7.70	79.00	31	4.23	5.2	0
15	0.14	0.00	94.00	29	1.97	2.49	0
16	0.00	1.40	87.00	48	2.41	2.94	0
17	0.00	4.50	79.00	67	3.46	4.03	0
18	0.54	5.40	86.00	74	3.73	4.366	3
19	1.12	3.90	86.00	38	3.02	3.74	6
20	0.00	6.90	84.00	86	3.99	4.86	9
21	0.34	9.70	86.00	82	4.76	5.9	12
22	1.19	4.70	89.00	48	3.33	4.17	15
23	0.27	4.50	84.00	34	3.23	3.97	18
24	0.00	8.50	81.00	34	4.14	5.13	21
25	0.60	3.50	91.00	32	2.92	3.68	24
26	2.24	4.50	82.00	39	3.27	3.98	27
27	1.06	3.40	85.00	40	2.89	3.54	30
28	0.00	6.60	90.00	24	3.64	4.55	33
29	3.22	2.70	84.00	43	2.7	3.28	36

30	0.80	1.10	88.00	34	2.26	2.79	39
31	0.93	0.50	93.00	32	2.05	2.58	42
32	1.65	1.80	93.00	24	2.37	2.99	45
33	0.47	3.00	90.00	26	2.72	3.44	48
34	0.47	2.80	90.00	9	2.68	3.38	51
35	0.67	6.80	90.00	21	3.82	4.85	54
36	1.91	1.20	90.00	21	3.58	4.53	57
37	0.00	3.40	85.00	8	2.78	3.49	60
38	0.00	10.00	90.00	17	4.63	5.82	63
39	3.41	6.00	90.00	34	4.21	5.3	66
40	0.60	2.00	96.00	39	2.36	3.04	69
41	0.21	5.10	84.00	30	3.29	4.06	72
42	0.00	9.40	78.00	25	4.4	5.45	75
43	0.00	9.00	90.00	26	4.33	5.34	78
44	0.00	9.00	90.00	21	4.38	5.43	81
45	5.84	3.00	90.00	25	2.74	3.31	84
46	0.67	4.20	94.00	34	3.06	3.9	87
47	1.65	0.00	94.00	45	1.84	2.34	90
48	1.12	3.60	96.00	36	2.69	3.47	93
49	0.08	7.30	90.00	42	3.78	4.9	96
50	1.06	7.40	85.00	15	3.87	4.86	99
51	0.67	1.00	96.00	31	2.12	2.71	102
52	0.00	3.00	91.00	7	2.68	3.38	102
53	0.00	0.30	93.00	17	1.95	2.46	102
54	0.27	6.40	92.00	44	3.5	4.48	102
55	0.00	7.90	82.00	69	4.04	4.92	102
56	5.12	0.50	90.00	44	2.23	2.6	102
57	1.58	1.80	90.00	52	2.31	2.87	102
58	0.08	6.20	87.00	48	3.35	4.26	102
59	0.00	10.70	79.00	44	4.6	5.66	102
60	0.00	10.70	87.00	63	4.83	5.89	102
61	0.00	8.80	87.00	29	4.25	5.25	102
62	0.27	2.60	87.00	25	2.65	3.29	102
63	7.80	5.00	89.00	39	3.22	4.04	102
64	0.40	1.20	90.00	12	2.22	2.79	102
65	0.00	6.10	82.00	30	3.41	4.21	102
66	0.00	6.00	86.00	21	3.3	4.13	102
67	0.00	4.00	89.00	20	2.91	3.65	102
68	0.00	2.50	79.00	18	2.57	3.15	102
69	0.40	1.70	94.00	22	2.37	3	102
70	0.00	10.40	87.00	12	4.63	5.88	102
71	0.00	10.50	87.00	13	4.76	6.08	102
72	1.26	3.60	81.00	22	2.97	3.64	102
73	9.83	3.90	92.00	50	3.03	3.84	102
74	0.08	7.00	80.00	70	3.92	4.7	102
75	1.84	1.00	87.00	21	2.26	2.74	102
76	0.73	1.80	93.00	43	2.29	2.91	102

77	1.39	1.70	87.00	46	2.36	2.99	102
78	0.00	0.10	95.00	15	1.93	2.45	102
79	0.34	5.10	86.00	17	3.2	4.01	102
80	2.83	2.40	87.00	13	2.63	3.28	102
81	0.08	3.20	87.00	27	2.96	3.66	102
82	0.14	5.60	88.00		3.41	4.29	102
83	0.73	2.90	84.00	17	2.78	3.45	102
84	1.65	6.20	86.00	61	3.62	4.5	102
85	0.86	1.20	88.00	30	2.24	2.78	102
86	0.14	4.20	87.00	13	3.12	3.91	102
87	0.00	2.60	90.00	18	2.71	3.4	102
88	1.19	2.40	85.00	19	2.68	3.32	102
89	0.34	4.00	83.00	28	3.12	3.85	102
90	0.00	2.60	86.00	29	2.73	3.38	102
91	2.63	2.20	88.00	41	2.63	3.25	102
92	0.93	4.90	86.00	40	3.37	4.18	102
93	0.00	3.80	85.00	28	3.02	3.74	102
94	1.12	5.80	90.00	47	3.58	4.53	102
95	1.19	0.20	91.00	34	2.03	2.53	102
96	1.32	1.80	89.00	24	2.5	3.12	102
97	0.99	4.50	90.00	22	3.18	4.02	102
98	0.00	3.70	84.00	15	3	3.74	102
99	0.00	0.10	89.00	17	2.02	2.51	102
100	0.00	0.10	89.00	6	2.03	2.54	102
101	0.00	2.40	86.00	8	2.67	3.34	102
102	0.00	0.80	93.00	36	2.25	2.84	102
103	3.48	2.50	90.00	47	2.68	3.36	102
104	0.08	0.40	91.00	17	2.14	2.68	102
105	0.47	9.30	82.00	26	4.63	5.79	102
106	2.11	1.70	95.00	19	2.45	3.12	102
107	1.65	1.90	89.00	19	2.55	3.19	102
108	0.00	6.00	88.00	28	3.76	4.73	102
109	1.12	4.60	90.00	32	3.35	4.23	102
110	3.02	3.80	85.00	34	3.19	3.94	102
111	0.00	9.10	79.00	34	4.68	5.79	102
112	3.35	2.50	88.00	63	2.73	3.37	102
113	0.08	4.30	89.00	38	3.22	4.04	102
114	0.00	10.10	79.00	24	5.01	6.23	102
115	0.73	4.10	79.00	8	3.28	4.09	102
116	0.00	3.90	85.00	28	3.24	4.02	102
117	0.00	7.10	78.00	31	4.15	5.1	102
118	0.67	2.00	83.00	54	2.8	3.33	102
119	0.60	5.80	82.00	58	3.82	4.65	102
120	0.00	9.10	85.00	60	4.71	5.9	102
121	1.78	3.80	79.00	76	3.46	3.99	102
122	0.14	9.60	81.00	18	4.76	5.97	102
123	0.14	1.30	87.00	24	2.47	3.06	102

124	0.21	4.80	84.00	29	3.55	4.4	102
125	0.08	2.80	82.00	20	2.93	3.62	102
126	0.60	0.80	96.00	51	2.18	2.82	102
127	0.00	5.80	82.00	21	3.66	4.55	102
128	2.20	0.00	93.00	-999.00	2	2.53	102
129	0.05	8.20	75.00	-999.00	4.32	5.33	102
130	0.20	0.60	79.00	-999.00	2.38	2.87	102
131	0.00	3.50	83.00	-999.00	3.09	3.83	0
132	0.80	1.20	87.00	-999.00	2.44	3.03	0
133	0.70	6.80	90.00	-999.00	3.96	5.02	0
134	0.00	0.00	92.00	-999.00	1.98	2.49	0
135	0.00	1.60	82.00	-999.00	2.56	3.14	0
136	0.00	7.00	80.00	-999.00	4.15	5.16	0
137	0.00	0.40	81.00	-999.00	2.32	2.80	0
138	0.04	2.10	77.00	-999.00	3.73	4.71	0
139	0.14	4.10	80.00	-999.00	3.28	4.12	0
140	0.00	4.70	78.00	-999.00	3.42	4.30	0
141	7.80	2.70	80.00	-999.00	2.86	3.60	0
142	0.14	1.10	78.00	-999.00	2.42	3.03	0
143	0.00	8.30	73.00	-999.00	4.38	5.50	0
144	0.00	8.70	77.00	-999.00	4.54	5.72	0
145	0.00	6.30	72.00	-999.00	3.8	4.77	0
146	1.39	0.50	86.00	-999.00	2.23	2.80	0
147	0.00	9.30	76.00	-999.00	4.52	5.69	0
148	0.00	4.80	78.00	-999.00	3.42	4.30	0
149	0.47	7.80	82.00	-999.00	4.35	5.48	0
150	4.46	4.30	86.00	-999.00	3.34	4.20	0
151	0.86	5.60	79.00	-999.00	3.69	4.65	0
152	0.00	9.20	78.00	-999.00	4.67	5.88	0
153	1.26	9.50	78.00	-999.00	4.77	6.01	0
154	0.08	8.90	78.00	50	4.8	5.86	0
155	0.08	8.10	82.00	58	4.51	5.56	0
156	0.08	9.60	81.00	31	4.89	6.09	0
157	11.27	8.60	79.00	29	4.57	5.66	0
158	9.11	5.10	85.00	28	3.53	4.40	0
159	0.00	5.10	76.00	12	3.52	4.36	0
160	0.08	4.90	78.00	30	3.6	4.37	0
161	1.19	2.70	87.00	17	2.78	3.48	0
162	0.00	3.60	79.00	16	3.15	3.88	0
163	1.12	2.60	84.00	46	2.95	3.56	0
164	0.47	0.80	95.00	24	2.19	2.78	0
165	0.21	2.20	84.00	36	2.71	3.30	0
166	0.00	7.00	77.00	37	4	4.86	0
167	0.00	7.90	79.00	72	4.5	5.40	0
168	0.80	5.00	86.00	40	3.49	4.34	0
169	3.35	0.80	89.00	36	2.23	2.76	0
170	0.00	7.60	77.00	18	4.22	5.22	0

171	0.60	0.00	88.00	25	2.02	2.49	0
172	0.34	8.40	83.00	61	4.46	5.51	0
173	1.26	3.70	84.00	52	3.16	3.83	0
174	5.25	2.20	85.00	25	2.64	3.26	0
175	0.00	8.90	76.00	69	4.54	5.42	0
176	0.00	8.10	77.00	65	4.43	5.30	0
177	1.52	3.20	84.00	75	3.06	3.64	0
178	0.27	4.70	82.00	69	3.29	3.94	0
179	0.00	6.10	82.00	77	3.87	4.65	0
180	0.08	1.30	81.00	64	2.62	2.98	0
181	3.02	0.00	91.00	39	1.96	2.43	0
182	0.00	8.30	77.00	31	4.23	5.19	0
183	0.00	3.90	85.00	58	3.13	3.81	0
184	0.86	1.00	93.00	24	2.16	2.72	0
185	0.00	9.70	82.00	52	4.64	5.75	0
186	0.80	0.10	93.00	33	1.97	2.47	0
187	0.00	5.80	81.00	48	3.59	4.36	0
188	2.89	4.70	85.00	48	3.23	3.97	0
189	0.60	4.00	81.00	20	3.06	3.77	0
190	0.00	8.10	80.00	26	4.16	5.16	0
191	0.00	2.90	82.00	16	2.77	3.43	0
192	0.00	6.70	85.00	49	3.86	4.79	0
193	4.20	0.60	86.00	54	2.23	2.65	0
194	0.00	8.40	81.00	36	4.16	5.14	0
195	0.14	7.00	80.00	44	3.95	4.81	2
196	1.26	1.30	84.00	53	2.42	2.85	4
197	0.00	7.70	78.00	63	4.07	4.86	6
198	0.00	7.30	83.00	76	4.01	4.88	8
199	0.00	8.40	80.00	88	4.38	5.23	10
200	1.52	6.40	84.00	65	3.68	4.50	12
201	0.00	0.00	91.00	42	1.91	2.37	14
202	0.00	7.90	78.00	21	4.01	4.96	16
203	0.00	4.60	82.00	60	3.34	3.98	18
204	0.00	-999.00	76.00	97	3.55	3.89	20
205	0.00	9.70	78.00	118	4.73	5.54	22
206	0.00	9.10	79.00	91	4.52	5.38	24
207	0.00	9.80	78.00	83	4.61	5.50	26
208	0.00	10.00	77.00	86	4.62	5.47	28
209	0.00	8.60	77.00	160	4.52	5.03	30
210	0.00	9.60	75.00	194	4.96	5.36	32
211	0.00	10.10	72.00	211	5.24	5.44	34
212	0.80	7.00	78.00	198	4.28	4.59	36
213	0.00	5.90	80.00	204	4.01	4.31	38
214	0.00	5.10	76.00	241	4.13	3.96	40
215	0.00	7.00	77.00	312	4.64	4.57	42
216	0.80	9.80	74.00	297	5.31	5.36	44
217	0.00	9.60	73.00	310	5.35	5.24	46

218	0.00	6.60	76.00	315	4.59	4.37	48
219	1.20	9.40	77.00	320	4.99	5.19	50
220	0.00	9.00	82.00	322	4.69	5.30	52
221	0.00	3.60	83.00	221	3.37	3.56	54
222	0.00	5.90	81.00	161	3.79	4.23	56
223	0.80	9.30	80.00	215	4.72	5.36	58
224	0.00	8.60	75.00	233	4.83	4.98	60
225	0.00	9.40	75.00	242	4.93	5.15	62
226	1.00	9.30	77.00	261	4.88	5.19	64
227	0.00	9.40	77.00	307	5.02	5.25	66
228	0.00	9.20	74.00	318	5.25	5.15	68
229	0.00	9.10	77.00	281	4.93	5.18	70
230	0.80	8.30	67.00	254	5.29	4.73	72
231	1.50	1.80	72.00	202	3.49	2.85	74
232	0.00	7.30	79.00	202	4.27	4.64	76
233	0.50	-999.00	77.00	220	4.39	4.72	78
234	0.00	6.70	89.00	212	3.65	4.60	80
235	0.00	5.40	80.00	210	3.91	4.13	82
236	0.00	6.00	75.00	247	4.35	4.18	84
237	0.00	7.60	73.00	223	4.65	4.59	86
238	0.00	8.80	72.00	235	4.95	4.90	88
239	0.00	8.80	81.00	283	4.52	5.06	90
240	0.00	9.20	76.00	300	4.99	5.13	92
241	0.00	8.00	77.00	273	4.54	4.68	94
242	0.00	9.60	75.00	254	4.98	5.19	96
243	0.00	5.80	73.00	246	4.35	4.02	98
244	0.21	8.90	68.00	305	5.49	4.88	100
245	0.00	6.30	64.00	283	5.35	4.19	100
246	0.00	3.80	74.00	338	4.4	3.58	100
247	0.00	7.80	74.00	-999.00	4.98	4.69	100
248	0.00	4.20	76.00	290	4.16	3.72	100
249	0.00	8.10	72.00	292	5.14	4.84	100
250	0.00	9.70	72.00	286	5.33	5.24	100
251	0.00	8.70	74.00	282	4.99	4.97	100
252	0.00	8.80	74.00	274	5.05	5.06	100
253	0.00	9.50	71.00	244	5.31	5.27	100
254	0.00	9.10	75.00	234	4.89	5.13	100
255	0.00	7.30	71.00	234	4.81	4.58	100
256	0.00	9.10	74.00	220	5	5.23	100
257	0.00	5.90	75.00	240	4.44	4.32	100
258	0.00	8.40	72.00	264	5.19	5.05	100
259	0.00	7.40	74.00	231	4.77	4.78	100
260	0.00	9.50	74.00	438	5.64	5.36	100
261	0.00	7.80	67.00	241	5.19	4.70	100
262	0.00	8.20	72.00	186	4.76	4.90	100
263	0.00	0.70	74.00	254	3.51	2.67	100
264	0.00	2.50	81.00	172	3.17	3.27	100

265	0.00	4.50	74.00	210	4.05	3.84	100
266	0.00	0.70	82.00	184	2.77	2.71	100
267	0.00	6.10	81.00	151	3.94	4.48	100
268	0.00	0.00	94.00	38	2.01	2.53	100
269	0.00	0.60	83.00	174	2.64	2.65	100
270	0.00	2.50	80.00	-999.00	3.26	3.32	100

GOOD	crop height	CONTROL							
DAY		LAI day	LAI	Eto	SCF	T	T (cm/d)	E	E (cm/d)
13	0	seeding				0	0.000	2.83	0.283
14	0.00	1		5.2	0.0000	0.0000	0.000	5.2000	0.520
15	0.00	2		2.49	0.0000	0.0000	0.000	2.4900	0.249
16	0.00	3		2.94	0.0000	0.0000	0.000	2.9400	0.294
17	0.00	4		4.03	0.0000	0.0000	0.000	4.0300	0.403
18	7.64	5	0.0781	4.366	0.0355	0.1550	0.016	4.2110	0.421
19	8.01	6	0.0831	3.74	0.0377	0.1411	0.014	3.5989	0.360
20	8.41	7	0.0884	4.86	0.0401	0.1948	0.019	4.6652	0.467
21	8.82	8	0.0940	5.9	0.0426	0.2513	0.025	5.6487	0.565
22	9.25	9	0.1000	4.17	0.0452	0.1887	0.019	3.9813	0.398
23	9.70	10	0.1064	3.97	0.0481	0.1908	0.019	3.7792	0.378
24	10.18	11	0.1132	5.13	0.0510	0.2619	0.026	4.8681	0.487
25	10.68	12	0.1204	3.68	0.0542	0.1995	0.020	3.4805	0.348
26	11.20	13	0.1281	3.98	0.0576	0.2291	0.023	3.7509	0.375
27	11.75	14	0.1362	3.54	0.0611	0.2164	0.022	3.3236	0.332
28	12.32	15	0.1449	4.55	0.0649	0.2953	0.030	4.2547	0.425
29	12.93	16	0.1542	3.28	0.0689	0.2260	0.023	3.0540	0.305
30	13.56	17	0.1640	2.79	0.0731	0.2040	0.020	2.5860	0.259
31	14.23	18	0.1745	2.58	0.0776	0.2002	0.020	2.3798	0.238
32	14.92	19	0.1856	2.99	0.0823	0.2462	0.025	2.7438	0.274
33	15.65	20	0.1974	3.44	0.0874	0.3005	0.030	3.1395	0.314
34	16.42	21	0.2100	3.38	0.0927	0.3132	0.031	3.0668	0.307
35	17.22	22	0.2234	4.85	0.0983	0.4766	0.048	4.3734	0.437
36	18.07	23	0.2377	4.53	0.1042	0.4720	0.047	4.0580	0.406
37	18.95	24	0.2528	3.49	0.1105	0.3855	0.039	3.1045	0.310
38	19.88	25	0.2690	5.82	0.1171	0.6814	0.068	5.1386	0.514
39	20.85	26	0.2861	5.3	0.1241	0.6576	0.066	4.6424	0.464
40	21.88	27	0.3044	3.04	0.1314	0.3996	0.040	2.6404	0.264
41	22.95	28	0.3238	4.06	0.1392	0.5652	0.057	3.4948	0.349
42	24.07	29	0.3444	5.45	0.1474	0.8034	0.080	4.6466	0.465
43	25.25	30	0.3664	5.34	0.1560	0.8333	0.083	4.5067	0.451
44	26.49	31	0.3898	5.43	0.1651	0.8966	0.090	4.5334	0.453
45	27.79	32	0.4147	3.31	0.1747	0.5782	0.058	2.7318	0.273
46	29.15	33	0.4411	3.9	0.1847	0.7204	0.072	3.1796	0.318
47	30.57	34	0.4692	2.34	0.1953	0.4570	0.046	1.8830	0.188
48	32.07	35	0.4992	3.47	0.2064	0.7161	0.072	2.7539	0.275
49	33.64	36	0.5310	4.9	0.2180	1.0681	0.107	3.8319	0.383
50	35.29	37	0.5649	4.86	0.2301	1.1185	0.112	3.7415	0.374

51	37.02	38	0.6009	2.71	0.2429	0.6582	0.066	2.0518	0.205
52	38.83	39	0.6393	3.38	0.2562	0.8660	0.087	2.5140	0.251
53	40.73	40	0.6800	2.46	0.2701	0.6645	0.066	1.7955	0.180
54	42.73	41	0.7234	4.48	0.2846	1.2751	0.128	3.2049	0.320
55	44.82	42	0.7696	4.92	0.2997	1.4748	0.147	3.4452	0.345
56	47.02	43	0.8187	2.6	0.3155	0.8203	0.082	1.7797	0.178
57	49.32	44	0.8709	2.87	0.3318	0.9524	0.095	1.9176	0.192
58	51.74	45	0.9265	4.26	0.3488	1.4859	0.149	2.7741	0.277
59	54.27	46	0.9856	5.66	0.3664	2.0737	0.207	3.5863	0.359
60	56.93	47	1.0484	5.89	0.3846	2.2651	0.227	3.6249	0.362
61	59.72	48	1.1153	5.25	0.4033	2.1175	0.212	3.1325	0.313
62	62.64	49	1.1865	3.29	0.4227	1.3906	0.139	1.8994	0.190
63	65.71	50	1.2621	4.04	0.4425	1.7879	0.179	2.2521	0.225
64	68.93	51	1.3427	2.79	0.4629	1.2916	0.129	1.4984	0.150
65	72.31	52	1.4283	4.21	0.4838	2.0369	0.204	2.1731	0.217
66	75.85	53	1.5194	4.13	0.5051	2.0863	0.209	2.0437	0.204
67	79.56	54	1.6163	3.65	0.5269	1.9230	0.192	1.7270	0.173
68	83.46	55	1.7195	3.15	0.5489	1.7291	0.173	1.4209	0.142
69	87.55	56	1.8291	3	0.5713	1.7138	0.171	1.2862	0.129
70	91.84	57	1.9458	5.88	0.5938	3.4916	0.349	2.3884	0.239
71	96.33	58	2.0700	6.08	0.6165	3.7483	0.375	2.3317	0.233
72	101.05	59	2.2020	3.64	0.6392	2.3268	0.233	1.3132	0.131
73	106.00	60	2.3425	3.84	0.6620	2.5419	0.254	1.2981	0.130
74	111.20	61	2.4919	4.7	0.6845	3.2174	0.322	1.4826	0.148
75	116.64	62	2.6509	2.74	0.7069	1.9370	0.194	0.8030	0.080
76	122.36	63	2.8200	2.91	0.7290	2.1214	0.212	0.7886	0.079
77	128.35	64	2.9999	2.99	0.7507	2.2445	0.224	0.7455	0.075
78	134.63	65	2.999869107	2.45	0.7507	1.8391	0.184	0.6109	0.061
79	141.23	66	2.999869107	4.01	0.7507	3.0101	0.301	0.9999	0.100
80	148.15	67	2.999869107	3.28	0.7507	2.4622	0.246	0.8178	0.082
81	155.40	68	2.999869107	3.66	0.7507	2.7474	0.275	0.9126	0.091
82	163.02	69	2.999869107	4.29	0.7507	3.2203	0.322	1.0697	0.107
83	171.00	70	2.999869107	3.45	0.7507	2.5898	0.259	0.8602	0.086
84	171.00	71	2.999869107	4.5	0.7507	3.3780	0.338	1.1220	0.112
85	171.00	72	2.999869107	2.78	0.7507	2.0868	0.209	0.6932	0.069
86	171.00	73	2.999869107	3.91	0.7507	2.9351	0.294	0.9749	0.097
87	171.00	74	2.999869107	3.4	0.7507	2.5522	0.255	0.8478	0.085
88	171.00	75	2.999869107	3.32	0.7507	2.4922	0.249	0.8278	0.083
89	171.00	76	2.999869107	3.85	0.7507	2.8900	0.289	0.9600	0.096
90	171.00	77	2.999869107	3.38	0.7507	2.5372	0.254	0.8428	0.084
91	171.00	78	2.999869107	3.25	0.7507	2.4396	0.244	0.8104	0.081
92	171.00	79	2.999869107	4.18	0.7507	3.1378	0.314	1.0422	0.104
93	171.00	80	2.999869107	3.74	0.7507	2.8075	0.281	0.9325	0.093
94	171.00	81	2.999869107	4.53	0.7507	3.4005	0.340	1.1295	0.113
95	171.00	82	2.999869107	2.53	0.7507	1.8992	0.190	0.6308	0.063
96	171.00	83	2.999869107	3.12	0.7507	2.3421	0.234	0.7779	0.078
97	171.00	84	2.999869107	4.02	0.7507	3.0177	0.302	1.0023	0.100
98	171.00	85	2.7863	3.74	0.7247	2.7105	0.271	1.0295	0.103

99	171.00	86	2.5336	2.51	0.6906	1.7334	0.173	0.7766	0.078
100	171.00	87	2.3039	2.54	0.6559	1.6659	0.167	0.8741	0.087
101	171.00	88	2.0949	3.34	0.6209	2.0738	0.207	1.2662	0.127
102	171.00	89	1.9050	2.84	0.5860	1.6644	0.166	1.1756	0.118
103	171.00	90	1.7322	3.36	0.5516	1.8533	0.185	1.5067	0.151
104	171.00	91	1.5751	2.68	0.5177	1.3876	0.139	1.2924	0.129
105	171.00	92	1.4323	5.79	0.4848	2.8069	0.281	2.9831	0.298
106	171.00	93	1.3024	3.12	0.4528	1.4129	0.141	1.7071	0.171
107	171.00	94	1.1843	3.19	0.4221	1.3465	0.135	1.8435	0.184
108	171.00	95	1.0769	4.73	0.3926	1.8571	0.186	2.8729	0.287
109	171.00	96	0.9793	4.23	0.3645	1.5420	0.154	2.6880	0.269
110	171.00	97	0.8905	3.94	0.3379	1.3312	0.133	2.6088	0.261
111	171.00	98	0.8097	5.79	0.3126	1.8102	0.181	3.9798	0.398
112	171.00	99	0.7363	3.37	0.2889	0.9735	0.097	2.3965	0.240
113	171.00	100	0.6695	4.04	0.2665	1.0768	0.108	2.9632	0.296
114	171.00	101	0.6088	6.23	0.2456	1.5303	0.153	4.6997	0.470
115	171.00	102	0.5536	4.09	0.2261	0.9248	0.092	3.1652	0.317
116	171.00	103	0.5034	4.02	0.2079	0.8358	0.084	3.1842	0.318
117	171.00	104	0.4577	5.1	0.1910	0.9740	0.097	4.1260	0.413
118	171.00	105	0.4162	3.33	0.1753	0.5837	0.058	2.7463	0.275
119	171.00	106	0.3785	4.65	0.1607	0.7475	0.075	3.9025	0.390
120	171.00	107	0.3442	5.9	0.1473	0.8691	0.087	5.0309	0.503
121	171.00	108	0.3130	3.99	0.1349	0.5382	0.054	3.4518	0.345
122	171.00	109	0.2846	5.97	0.1234	0.7370	0.074	5.2330	0.523
123	171.00	110	0.2588	3.06	0.1129	0.3455	0.035	2.7145	0.271
124	171.00	111	0.2353	4.4	0.1032	0.4542	0.045	3.9458	0.395
125	171.00	112	0.2140	3.62	0.0943	0.3414	0.034	3.2786	0.328
126	171.00	113	0.1946	2.82	0.0861	0.2429	0.024	2.5771	0.258
127	171.00	114	0.1769	4.55	0.0787	0.3579	0.036	4.1921	0.419
128	171.00	115	0.1609	2.53	0.0718	0.1816	0.018	2.3484	0.235
129	171.00	116	0.1463	5.33	0.0655	0.3491	0.035	4.9809	0.498
130	171.00	117	0.1330	2.87	0.0597	0.1714	0.017	2.6986	0.270
131	0.00	1st sb seeding				0	0.000	3.83	0.383
132	0.00					0	0.000	3.03	0.303
133	0.00					0	0.000	5.02	0.502
134	0.00					0	0.000	2.49	0.249
135	0.00					0	0.000	3.14	0.314
136	0.00					0	0.000	5.16	0.516
137	0.00					0	0.000	2.8	0.280
138	0.00					0	0.000	4.71	0.471
139	0.00					0	0.000	4.12	0.412
140	0.00					0	0.000	4.3	0.430
141	0.00					0	0.000	3.6	0.360
142	0.00					0	0.000	3.03	0.303
143	0.00					0	0.000	5.5	0.550
144	0.00					0	0.000	5.72	0.572
145	0.00					0	0.000	4.77	0.477
146	0.00					0	0.000	2.8	0.280

147	0.00					0	0.000	5.69	0.569
148	0.00					0	0.000	4.3	0.430
149	0.00					0	0.000	5.48	0.548
150	0.00					0	0.000	4.20	0.420
151	0.00					0	0.000	4.65	0.465
152	0.00					0	0.000	5.88	0.588
153	0.00					0	0.000	6.01	0.601
154	0.00					0	0.000	5.86	0.586
155	0.00					0	0.000	5.56	0.556
156	0.00					0	0.000	6.09	0.609
157	0.00					0	0.000	5.66	0.566
158	0.00					0	0.000	4.4	0.440
159	0.00					0	0.000	4.36	0.436
160	0.00	seeding				0	0.000	3.43	0.343
161	0.00	1		3.48	0.0000	0.0000	0.000	3.4800	0.348
162	0.00	2		3.88	0.0000	0.0000	0.000	3.8800	0.388
163	0.00	3		3.56	0.0000	0.0000	0.000	3.5600	0.356
164	0.00	4	0.0712	2.78	0.0324	0.0901	0.009	2.6899	0.269
165	0.00	5	0.0775	3.30	0.0352	0.1163	0.012	3.1837	0.318
166	0.00	6	0.0844	4.86	0.0383	0.1862	0.019	4.6738	0.467
167	0.00	7	0.0919	5.40	0.0416	0.2248	0.022	5.1752	0.518
168	0.00	8	0.1000	4.34	0.0452	0.1964	0.020	4.1436	0.414
169	0.00	9	0.1089	2.76	0.0492	0.1357	0.014	2.6243	0.262
170	0.00	10	0.1185	5.22	0.0534	0.2788	0.028	4.9412	0.494
171	0.00	11	0.1291	2.49	0.0580	0.1444	0.014	2.3456	0.235
172	0.00	12	0.1405	5.51	0.0630	0.3471	0.035	5.1629	0.516
173	0.00	13	0.1530	3.83	0.0684	0.2619	0.026	3.5681	0.357
174	0.00	14	0.1666	3.26	0.0742	0.2420	0.024	3.0180	0.302
175	0.00	15	0.1813	5.42	0.0805	0.4365	0.044	4.9835	0.498
176	0.00	16	0.1974	5.30	0.0874	0.4630	0.046	4.8370	0.484
177	0.00	17	0.2150	3.64	0.0947	0.3448	0.034	3.2952	0.330
178	0.00	18	0.2340	3.94	0.1027	0.4046	0.040	3.5354	0.354
179	0.00	19	0.2548	4.65	0.1113	0.5175	0.052	4.1325	0.413
180	0.00	20	0.2774	2.98	0.1205	0.3592	0.036	2.6208	0.262
181	0.00	21	0.3021	2.43	0.1305	0.3171	0.032	2.1129	0.211
182	0.00	22	0.3289	5.19	0.1412	0.7330	0.073	4.4570	0.446
183	0.00	23	0.3580	3.81	0.1528	0.5820	0.058	3.2280	0.323
184	0.00	24	0.3898	2.72	0.1651	0.4492	0.045	2.2708	0.227
185	0.00	25	0.4244	5.75	0.1784	1.0258	0.103	4.7242	0.472
186	0.00	26	0.4621	2.47	0.1926	0.4757	0.048	1.9943	0.199
187	0.00	27	0.5031	4.36	0.2078	0.9060	0.091	3.4540	0.345
188	0.00	28	0.5477	3.97	0.2240	0.8893	0.089	3.0807	0.308
189	0.00	29	0.5964	3.77	0.2413	0.9096	0.091	2.8604	0.286
190	0.00	30	0.6493	5.16	0.2596	1.3397	0.134	3.8203	0.382
191	0.00	31	0.7069	3.43	0.2791	0.9574	0.096	2.4726	0.247
192	0.00	32	0.7696	4.79	0.2998	1.4359	0.144	3.3541	0.335
193	0.00	33	0.8380	2.65	0.3216	0.8522	0.085	1.7978	0.180
194	0.00	34	0.9123	5.14	0.3445	1.7709	0.177	3.3691	0.337

195	2.58	35	0.9933	4.81	0.3686	1.7732	0.177	3.0368	0.304
196	3.63	36	1.0814	2.85	0.3939	1.1226	0.112	1.7274	0.173
197	4.68	37	1.1774	4.86	0.4202	2.0424	0.204	2.8176	0.282
198	5.73	38	1.2819	4.88	0.4476	2.1844	0.218	2.6956	0.270
199	6.78	39	1.3957	5.23	0.4760	2.4893	0.249	2.7407	0.274
200	7.83	40	1.5196	4.50	0.5052	2.2733	0.227	2.2267	0.223
201	8.88	41	1.6544	2.37	0.5351	1.2683	0.127	1.1017	0.110
202	9.92	42	1.8012	4.96	0.5657	2.8058	0.281	2.1542	0.215
203	10.97	43	1.9611	3.98	0.5967	2.3747	0.237	1.6053	0.161
204	12.02	44	2.1352	3.89	0.6279	2.4425	0.244	1.4475	0.145
205	13.07	45	2.3246	5.54	0.6591	3.6517	0.365	1.8883	0.189
206	14.12	46	2.5310	5.38	0.6902	3.7133	0.371	1.6667	0.167
207	15.17	47	2.7556	5.50	0.7208	3.9644	0.396	1.5356	0.154
208	16.22	48	3.0001	5.47	0.7507	4.1063	0.411	1.3637	0.136
209	17.27	49	3.0001	5.03	0.7507	3.7760	0.378	1.2540	0.125
210	18.32	50	3.0001	5.36	0.7507	4.0237	0.402	1.3363	0.134
211	19.37	51	3.0001	5.44	0.7507	4.0838	0.408	1.3562	0.136
212	20.42	52	3.0001	4.59	0.7507	3.4457	0.345	1.1443	0.114
213	21.46	53	3.0001	4.31	0.7507	3.2355	0.324	1.0745	0.107
214	22.51	54	3.0001	3.96	0.7507	2.9727	0.297	0.9873	0.099
215	23.56	55	3.0001	4.57	0.7507	3.4307	0.343	1.1393	0.114
216	24.61	56	3.0001	5.36	0.7507	4.0237	0.402	1.3363	0.134
217	25.66	57	3.0001	5.24	0.7507	3.9336	0.393	1.3064	0.131
218	26.71	58	3.0001	4.37	0.7507	3.2805	0.328	1.0895	0.109
219	27.76	59	3.0001	5.19	0.7507	3.8961	0.390	1.2939	0.129
220	28.81	60	3.0001	5.30	0.7507	3.9787	0.398	1.3213	0.132
221	29.86	61	3.0001	3.56	0.7507	2.6725	0.267	0.8875	0.089
222	30.91	62	3.0001	4.23	0.7507	3.1754	0.318	1.0546	0.105
223	31.96	63	3.0001	5.36	0.7507	4.0237	0.402	1.3363	0.134
224	33.00	64	3.0001	4.98	0.7507	3.7384	0.374	1.2416	0.124
225	34.05	65	3.0001	5.15	0.7507	3.8661	0.387	1.2839	0.128
226	35.10	66	3.0001	5.19	0.7507	3.8961	0.390	1.2939	0.129
227	36.15	67	3.0001	5.25	0.7507	3.9411	0.394	1.3089	0.131
228	37.20	68	2.8728	5.15	0.7356	3.7881	0.379	1.3619	0.136
229	38.25	69	2.7424	5.18	0.7191	3.7249	0.372	1.4551	0.146
230	39.30	70	2.6120	4.73	0.7016	3.3186	0.332	1.4114	0.141
231	40.35	71	2.4816	2.85	0.6830	1.9467	0.195	0.9033	0.090
232	41.40	72	2.3512	4.64	0.6633	3.0778	0.308	1.5622	0.156
233	42.45	73	2.2208	4.72	0.6424	3.0319	0.303	1.6881	0.169
234	43.50	74	2.0904	4.60	0.6201	2.8525	0.285	1.7475	0.175
235	44.54	75	1.9600	4.13	0.5965	2.4634	0.246	1.6666	0.167
236	45.59	76	1.8296	4.18	0.5713	2.3882	0.239	1.7918	0.179
237	46.64	77	1.6992	4.59	0.5447	2.5000	0.250	2.0900	0.209
238	47.69	78	1.5688	4.90	0.5163	2.5300	0.253	2.3700	0.237
239	48.74	79	1.4384	5.06	0.4862	2.4603	0.246	2.5997	0.260
240	49.79		1.308	5.13	0.4543	2.3303	0.233	2.7997	0.280
241	50.84		1.1776	4.68	0.4203	1.9670	0.197	2.7130	0.271
242	51.89		1.0472	5.19	0.3842	1.9941	0.199	3.1959	0.320

243	52.94		0.9168	4.02	0.3459	1.3905	0.139	2.6295	0.263
244	53.99		0.7864	4.88	0.3052	1.4893	0.149	3.3907	0.339
245	53.99		0.656	4.19	0.2619	1.0975	0.110	3.0925	0.309
246	53.99		0.5256	3.58	0.2160	0.7733	0.077	2.8067	0.281
247	53.99		0.3952	4.69	0.1672	0.7842	0.078	3.9058	0.391
248	53.99		0.2648	3.72	0.1154	0.4292	0.043	3.2908	0.329
249	53.99		0.1344	4.84	0.0603	0.2920	0.029	4.5480	0.455
250	53.99		0.004	5.24	0.0019	0.0097	0.001	5.2303	0.523
251	53.99		0			0	0.000	4.97	0.497
252	53.99		0			0	0.000	5.06	0.506
253	53.99		0			0	0.000	5.27	0.527
254	53.99		0			0	0.000	5.13	0.513
255	53.99		0			0	0.000	4.58	0.458
256	53.99		0			0	0.000	5.23	0.523
257	53.99		0			0	0.000	4.32	0.432
258	53.99		0			0	0.000	5.05	0.505
259	53.99		0			0	0.000	4.78	0.478
260	53.99		0			0	0.000	5.36	0.536
261	53.99		0			0	0.000	4.70	0.470
262	53.99		0			0	0.000	4.90	0.490
263	53.99		0			0	0.000	2.67	0.267
264	53.99		0			0	0.000	3.27	0.327
265	53.99		0			0	0.000	3.84	0.384
266	53.99		0			0	0.000	2.71	0.271
267	53.99		0			0	0.000	4.48	0.448
268	53.99		0			0	0.000	2.53	0.253
269	53.99		0			0	0.000	2.65	0.265
270	53.99		0			0	0.000	3.32	0.332

GOOD		BIOCHAR							
DAY	crop height	LAI	Eto	SCF	T	T (cm/d)	E	E (cm/d)	
13	0.00					0	0.000	2.83	0.283
14	0.00	0.0000	5.2	0.0000	0.0000	0.000	5.2000	0.520	
15	0.00	0.0000	2.49	0.0000	0.0000	0.000	2.4900	0.249	
16	0.00	0.0000	2.94	0.0000	0.0000	0.000	2.9400	0.294	
17	0.00	0.0000	4.03	0.0000	0.0000	0.000	4.0300	0.403	
18	7.30	0.0753	4.366	0.0343	0.1496	0.015	4.2164	0.422	
19	7.73	0.0809	3.74	0.0367	0.1374	0.014	3.6026	0.360	
20	8.20	0.0868	4.86	0.0394	0.1914	0.019	4.6686	0.467	
21	8.68	0.0932	5.9	0.0422	0.2491	0.025	5.6509	0.565	
22	9.20	0.1000	4.17	0.0452	0.1887	0.019	3.9813	0.398	
23	9.75	0.1073	3.97	0.0485	0.1925	0.019	3.7775	0.378	
24	10.33	0.1152	5.13	0.0520	0.2665	0.027	4.8635	0.486	
25	10.95	0.1237	3.68	0.0557	0.2048	0.020	3.4752	0.348	
26	11.60	0.1328	3.98	0.0596	0.2373	0.024	3.7427	0.374	
27	12.29	0.1425	3.54	0.0639	0.2261	0.023	3.3139	0.331	
28	13.02	0.1530	4.55	0.0684	0.3111	0.031	4.2389	0.424	

29	13.80	0.1642	3.28	0.0732	0.2402	0.024	3.0398	0.304
30	14.62	0.1763	2.79	0.0784	0.2187	0.022	2.5713	0.257
31	15.49	0.1892	2.58	0.0839	0.2164	0.022	2.3636	0.236
32	16.42	0.2031	2.99	0.0898	0.2684	0.027	2.7216	0.272
33	17.40	0.2180	3.44	0.0960	0.3303	0.033	3.1097	0.311
34	18.43	0.2341	3.38	0.1027	0.3471	0.035	3.0329	0.303
35	19.53	0.2512	4.85	0.1098	0.5326	0.053	4.3174	0.432
36	20.70	0.2697	4.53	0.1174	0.5317	0.053	3.9983	0.400
37	21.93	0.2895	3.49	0.1254	0.4378	0.044	3.0522	0.305
38	23.24	0.3107	5.82	0.1340	0.7799	0.078	5.0401	0.504
39	24.62	0.3336	5.3	0.1431	0.7585	0.076	4.5415	0.454
40	26.09	0.3581	3.04	0.1528	0.4644	0.046	2.5756	0.258
41	27.65	0.3844	4.06	0.1630	0.6619	0.066	3.3981	0.340
42	29.29	0.4126	5.45	0.1739	0.9477	0.095	4.5023	0.450
43	31.04	0.4429	5.34	0.1854	0.9900	0.099	4.3500	0.435
44	32.89	0.4754	5.43	0.1976	1.0728	0.107	4.3572	0.436
45	34.85	0.5103	3.31	0.2104	0.6965	0.070	2.6135	0.261
46	36.93	0.5478	3.9	0.2240	0.8736	0.087	3.0264	0.303
47	39.13	0.5880	2.34	0.2383	0.5577	0.056	1.7823	0.178
48	41.46	0.6312	3.47	0.2534	0.8793	0.088	2.5907	0.259
49	43.93	0.6775	4.9	0.2693	1.3194	0.132	3.5806	0.358
50	46.55	0.7273	4.86	0.2859	1.3895	0.139	3.4705	0.347
51	49.33	0.7807	2.71	0.3033	0.8220	0.082	1.8880	0.189
52	52.27	0.8380	3.38	0.3216	1.0870	0.109	2.2930	0.229
53	55.38	0.8995	2.46	0.3406	0.8380	0.084	1.6220	0.162
54	58.68	0.9656	4.48	0.3605	1.6150	0.162	2.8650	0.286
55	62.18	1.0365	4.92	0.3812	1.8753	0.188	3.0447	0.304
56	65.89	1.1126	2.6	0.4026	1.0467	0.105	1.5533	0.155
57	69.82	1.1943	2.87	0.4248	1.2191	0.122	1.6509	0.165
58	73.98	1.2820	4.26	0.4476	1.9070	0.191	2.3530	0.235
59	78.39	1.3761	5.66	0.4712	2.6670	0.267	2.9930	0.299
60	83.06	1.4772	5.89	0.4954	2.9178	0.292	2.9722	0.297
61	88.01	1.5857	5.25	0.5201	2.7305	0.273	2.5195	0.252
62	93.26	1.7021	3.29	0.5453	1.7940	0.179	1.4960	0.150
63	98.82	1.8271	4.04	0.5708	2.3062	0.231	1.7338	0.173
64	104.71	1.9613	2.79	0.5967	1.6648	0.166	1.1252	0.113
65	110.95	2.1053	4.21	0.6227	2.6216	0.262	1.5884	0.159
66	117.56	2.2599	4.13	0.6488	2.6794	0.268	1.4506	0.145
67	124.57	2.4258	3.65	0.6747	2.4628	0.246	1.1872	0.119
68	132.00	2.6039	3.15	0.7005	2.2066	0.221	0.9434	0.094
69	139.87	2.7951	3	0.7259	2.1776	0.218	0.8224	0.082
70	148.20	3.0004	5.88	0.7507	4.4142	0.441	1.4658	0.147
71	157.04	3.0004	6.08	0.7507	4.5644	0.456	1.5156	0.152
72	166.40	3.0004	3.64	0.7507	2.7326	0.273	0.9074	0.091
73	176.32	3.0004	3.84	0.7507	2.8828	0.288	0.9572	0.096
74	186.83	3.0004	4.7	0.7507	3.5284	0.353	1.1716	0.117
75	186.83	3.0004	2.74	0.7507	2.0570	0.206	0.6830	0.068
76	186.83	3.0004	2.91	0.7507	2.1846	0.218	0.7254	0.073

77	186.83	3.0004	2.99	0.7507	2.2447	0.224	0.7453	0.075
78	186.83	3.0004	2.45	0.7507	1.8393	0.184	0.6107	0.061
79	186.83	3.0004	4.01	0.7507	3.0104	0.301	0.9996	0.100
80	186.83	3.0004	3.28	0.7507	2.4624	0.246	0.8176	0.082
81	186.83	3.0004	3.66	0.7507	2.7476	0.275	0.9124	0.091
82	186.83	3.0004	4.29	0.7507	3.2206	0.322	1.0694	0.107
83	186.83	3.0004	3.45	0.7507	2.5900	0.259	0.8600	0.086
84	186.83	3.0004	4.5	0.7507	3.3782	0.338	1.1218	0.112
85	186.83	3.0004	2.78	0.7507	2.0870	0.209	0.6930	0.069
86	186.83	3.0004	3.91	0.7507	2.9353	0.294	0.9747	0.097
87	186.83	3.0004	3.4	0.7507	2.5525	0.255	0.8475	0.085
88	186.83	3.0004	3.32	0.7507	2.4924	0.249	0.8276	0.083
89	186.83	3.0004	3.85	0.7507	2.8903	0.289	0.9597	0.096
90	186.83	3.0004	3.38	0.7507	2.5374	0.254	0.8426	0.084
91	186.83	3.0004	3.25	0.7507	2.4398	0.244	0.8102	0.081
92	186.83	3.0004	4.18	0.7507	3.1380	0.314	1.0420	0.104
93	186.83	3.0004	3.74	0.7507	2.8077	0.281	0.9323	0.093
94	186.83	3.0004	4.53	0.7507	3.4008	0.340	1.1292	0.113
95	186.83	3.0004	2.53	0.7507	1.8993	0.190	0.6307	0.063
96	186.83	3.0004	3.12	0.7507	2.3423	0.234	0.7777	0.078
97	186.83	3.0004	4.02	0.7507	3.0179	0.302	1.0021	0.100
98	186.83	2.7863	3.74	0.7247	2.7105	0.271	1.0295	0.103
99	186.83	2.5336	2.51	0.6906	1.7334	0.173	0.7766	0.078
100	186.83	2.3039	2.54	0.6559	1.6659	0.167	0.8741	0.087
101	186.83	2.0949	3.34	0.6209	2.0738	0.207	1.2662	0.127
102	186.83	1.9050	2.84	0.5860	1.6644	0.166	1.1756	0.118
103	186.83	1.7322	3.36	0.5516	1.8533	0.185	1.5067	0.151
104	186.83	1.5751	2.68	0.5177	1.3876	0.139	1.2924	0.129
105	186.83	1.4323	5.79	0.4848	2.8069	0.281	2.9831	0.298
106	186.83	1.3024	3.12	0.4528	1.4129	0.141	1.7071	0.171
107	186.83	1.1843	3.19	0.4221	1.3465	0.135	1.8435	0.184
108	186.83	1.0769	4.73	0.3926	1.8571	0.186	2.8729	0.287
109	186.83	0.9793	4.23	0.3645	1.5420	0.154	2.6880	0.269
110	186.83	0.8905	3.94	0.3379	1.3312	0.133	2.6088	0.261
111	186.83	0.8097	5.79	0.3126	1.8102	0.181	3.9798	0.398
112	186.83	0.7363	3.37	0.2889	0.9735	0.097	2.3965	0.240
113	186.83	0.6695	4.04	0.2665	1.0768	0.108	2.9632	0.296
114	186.83	0.6088	6.23	0.2456	1.5303	0.153	4.6997	0.470
115	186.83	0.5536	4.09	0.2261	0.9248	0.092	3.1652	0.317
116	186.83	0.5034	4.02	0.2079	0.8358	0.084	3.1842	0.318
117	186.83	0.4577	5.1	0.1910	0.9740	0.097	4.1260	0.413
118	186.83	0.4162	3.33	0.1753	0.5837	0.058	2.7463	0.275
119	186.83	0.3785	4.65	0.1607	0.7475	0.075	3.9025	0.390
120	186.83	0.3442	5.9	0.1473	0.8691	0.087	5.0309	0.503
121	186.83	0.3130	3.99	0.1349	0.5382	0.054	3.4518	0.345
122	186.83	0.2846	5.97	0.1234	0.7370	0.074	5.2330	0.523
123	186.83	0.2588	3.06	0.1129	0.3455	0.035	2.7145	0.271
124	186.83	0.2353	4.4	0.1032	0.4542	0.045	3.9458	0.395

125	186.83	0.2140	3.62	0.0943	0.3414	0.034	3.2786	0.328
126	186.83	0.1946	2.82	0.0861	0.2429	0.024	2.5771	0.258
127	186.83	0.1769	4.55	0.0787	0.3579	0.036	4.1921	0.419
128	186.83	0.1609	2.53	0.0718	0.1816	0.018	2.3484	0.235
129	186.83	0.1463	5.33	0.0655	0.3491	0.035	4.9809	0.498
130	186.83	0.1330	2.87	0.0597	0.1714	0.017	2.6986	0.270
131					0	0.000	3.83	0.383
132					0	0.000	3.03	0.303
133					0	0.000	5.02	0.502
134					0	0.000	2.49	0.249
135					0	0.000	3.14	0.314
136					0	0.000	5.16	0.516
137					0	0.000	2.8	0.280
138					0	0.000	4.71	0.471
139					0	0.000	4.12	0.412
140					0	0.000	4.3	0.430
141					0	0.000	3.6	0.360
142					0	0.000	3.03	0.303
143					0	0.000	5.5	0.550
144					0	0.000	5.72	0.572
145					0	0.000	4.77	0.477
146					0	0.000	2.8	0.280
147					0	0.000	5.69	0.569
148					0	0.000	4.3	0.430
149					0	0.000	5.48	0.548
150					0	0.000	4.2	0.420
151					0	0.000	4.65	0.465
152					0	0.000	5.88	0.588
153					0	0.000	6.01	0.601
154					0	0.000	5.86	0.586
155					0	0.000	5.56	0.556
156					0	0.000	6.09	0.609
157					0	0.000	5.66	0.566
158					0	0.000	4.4	0.440
159					0	0.000	4.36	0.436
160					0	0.000	3.43	0.343
161			3.48	0.0000	0.0000	0.000	3.4800	0.348
162			3.88	0.0000	0.0000	0.000	3.8800	0.388
163			3.56	0.0000	0.0000	0.000	3.5600	0.356
164	0.82	0.0712	2.78	0.0324	0.0901	0.009	2.6899	0.269
165	2.18	0.0775	3.30	0.0352	0.1163	0.012	3.1837	0.318
166	3.54	0.0844	4.86	0.0383	0.1862	0.019	4.6738	0.467
167	4.89	0.0919	5.40	0.0416	0.2248	0.022	5.1752	0.518
168	6.25	0.1000	4.34	0.0452	0.1964	0.020	4.1436	0.414
169	7.61	0.1089	2.76	0.0492	0.1357	0.014	2.6243	0.262
170	8.96	0.1185	5.22	0.0534	0.2788	0.028	4.9412	0.494
171	10.32	0.1291	2.49	0.0580	0.1444	0.014	2.3456	0.235
172	11.68	0.1405	5.51	0.0630	0.3471	0.035	5.1629	0.516

173	13.03	0.1530	3.83	0.0684	0.2619	0.026	3.5681	0.357
174	14.39	0.1666	3.26	0.0742	0.2420	0.024	3.0180	0.302
175	15.75	0.1813	5.42	0.0805	0.4365	0.044	4.9835	0.498
176	17.10	0.1974	5.30	0.0874	0.4630	0.046	4.8370	0.484
177	18.46	0.2150	3.64	0.0947	0.3448	0.034	3.2952	0.330
178	19.82	0.2340	3.94	0.1027	0.4046	0.040	3.5354	0.354
179	21.17	0.2548	4.65	0.1113	0.5175	0.052	4.1325	0.413
180	22.53	0.2774	2.98	0.1205	0.3592	0.036	2.6208	0.262
181	23.88	0.3021	2.43	0.1305	0.3171	0.032	2.1129	0.211
182	25.24	0.3289	5.19	0.1412	0.7330	0.073	4.4570	0.446
183	26.60	0.3580	3.81	0.1528	0.5820	0.058	3.2280	0.323
184	27.95	0.3898	2.72	0.1651	0.4492	0.045	2.2708	0.227
185	29.31	0.4244	5.75	0.1784	1.0258	0.103	4.7242	0.472
186	30.67	0.4621	2.47	0.1926	0.4757	0.048	1.9943	0.199
187	32.02	0.5031	4.36	0.2078	0.9060	0.091	3.4540	0.345
188	33.38	0.5477	3.97	0.2240	0.8893	0.089	3.0807	0.308
189	34.74	0.5964	3.77	0.2413	0.9096	0.091	2.8604	0.286
190	36.09	0.6493	5.16	0.2596	1.3397	0.134	3.8203	0.382
191	37.45	0.7069	3.43	0.2791	0.9574	0.096	2.4726	0.247
192	38.81	0.7696	4.79	0.2998	1.4359	0.144	3.3541	0.335
193	40.16	0.8380	2.65	0.3216	0.8522	0.085	1.7978	0.180
194	41.52	0.9123	5.14	0.3445	1.7709	0.177	3.3691	0.337
195	42.88	0.9933	4.81	0.3686	1.7732	0.177	3.0368	0.304
196	44.23	1.0814	2.85	0.3939	1.1226	0.112	1.7274	0.173
197	45.59	1.1774	4.86	0.4202	2.0424	0.204	2.8176	0.282
198	46.95	1.2819	4.88	0.4476	2.1844	0.218	2.6956	0.270
199	48.30	1.3957	5.23	0.4760	2.4893	0.249	2.7407	0.274
200	49.66	1.5196	4.50	0.5052	2.2733	0.227	2.2267	0.223
201	51.01	1.6544	2.37	0.5351	1.2683	0.127	1.1017	0.110
202	52.37	1.8012	4.96	0.5657	2.8058	0.281	2.1542	0.215
203	53.73	1.9611	3.98	0.5967	2.3747	0.237	1.6053	0.161
204	55.08	2.1352	3.89	0.6279	2.4425	0.244	1.4475	0.145
205	56.44	2.3246	5.54	0.6591	3.6517	0.365	1.8883	0.189
206	57.80	2.5310	5.38	0.6902	3.7133	0.371	1.6667	0.167
207	59.15	2.7556	5.50	0.7208	3.9644	0.396	1.5356	0.154
208	60.51	3.0001	5.47	0.7507	4.1063	0.411	1.3637	0.136
209	61.87	3.0001	5.03	0.7507	3.7760	0.378	1.2540	0.125
210	63.22	3.0001	5.36	0.7507	4.0237	0.402	1.3363	0.134
211	64.58	3.0001	5.44	0.7507	4.0838	0.408	1.3562	0.136
212	65.94	3.0001	4.59	0.7507	3.4457	0.345	1.1443	0.114
213	67.29	3.0001	4.31	0.7507	3.2355	0.324	1.0745	0.107
214	68.65	3.0001	3.96	0.7507	2.9727	0.297	0.9873	0.099
215	70.01	3.0001	4.57	0.7507	3.4307	0.343	1.1393	0.114
216	70.10	3.0001	5.36	0.7507	4.0237	0.402	1.3363	0.134
217	70.10	3.0001	5.24	0.7507	3.9336	0.393	1.3064	0.131
218	70.10	3.0001	4.37	0.7507	3.2805	0.328	1.0895	0.109
219	70.10	3.0001	5.19	0.7507	3.8961	0.390	1.2939	0.129
220	70.10	3.0001	5.30	0.7507	3.9787	0.398	1.3213	0.132

221	70.10	3.0001	3.56	0.7507	2.6725	0.267	0.8875	0.089
222	70.10	3.0001	4.23	0.7507	3.1754	0.318	1.0546	0.105
223	70.10	3.0001	5.36	0.7507	4.0237	0.402	1.3363	0.134
224	70.10	3.0001	4.98	0.7507	3.7384	0.374	1.2416	0.124
225	70.10	3.0001	5.15	0.7507	3.8661	0.387	1.2839	0.128
226	70.10	3.0001	5.19	0.7507	3.8961	0.390	1.2939	0.129
227	70.10	3.0001	5.25	0.7507	3.9411	0.394	1.3089	0.131
228	70.10	2.8728	5.15	0.7356	3.7881	0.379	1.3619	0.136
229	70.10	2.7424	5.18	0.7191	3.7249	0.372	1.4551	0.146
230	70.10	2.6120	4.73	0.7016	3.3186	0.332	1.4114	0.141
231	70.10	2.4816	2.85	0.6830	1.9467	0.195	0.9033	0.090
232	70.10	2.3512	4.64	0.6633	3.0778	0.308	1.5622	0.156
233	70.10	2.2208	4.72	0.6424	3.0319	0.303	1.6881	0.169
234	70.10	2.0904	4.60	0.6201	2.8525	0.285	1.7475	0.175
235	70.10	1.9600	4.13	0.5965	2.4634	0.246	1.6666	0.167
236	70.10	1.8296	4.18	0.5713	2.3882	0.239	1.7918	0.179
237	70.10	1.6992	4.59	0.5447	2.5000	0.250	2.0900	0.209
238	70.10	1.5688	4.90	0.5163	2.5300	0.253	2.3700	0.237
239	70.10	1.4384	5.06	0.4862	2.4603	0.246	2.5997	0.260
240		1.308	5.13	0.4543	2.3303	0.233	2.7997	0.280
241		1.1776	4.68	0.4203	1.9670	0.197	2.7130	0.271
242		1.0472	5.19	0.3842	1.9941	0.199	3.1959	0.320
243		0.9168	4.02	0.3459	1.3905	0.139	2.6295	0.263
244		0.7864	4.88	0.3052	1.4893	0.149	3.3907	0.339
245		0.656	4.19	0.2619	1.0975	0.110	3.0925	0.309
246		0.5256	3.58	0.2160	0.7733	0.077	2.8067	0.281
247		0.3952	4.69	0.1672	0.7842	0.078	3.9058	0.391
248		0.2648	3.72	0.1154	0.4292	0.043	3.2908	0.329
249		0.1344	4.84	0.0603	0.2920	0.029	4.5480	0.455
250		0.004	5.24	0.0019	0.0097	0.001	5.2303	0.523
251					0	0.000	4.97	0.497
252					0	0.000	5.06	0.506
253					0	0.000	5.27	0.527
254					0	0.000	5.13	0.513
255					0	0.000	4.58	0.458
256					0	0.000	5.23	0.523
257					0	0.000	4.32	0.432
258					0	0.000	5.05	0.505
259					0	0.000	4.78	0.478
260					0	0.000	5.36	0.536
261					0	0.000	4.70	0.470
262					0	0.000	4.90	0.490
263					0	0.000	2.67	0.267
264					0	0.000	3.27	0.327
265					0	0.000	3.84	0.384
266					0	0.000	2.71	0.271
267					0	0.000	4.48	0.448
268					0	0.000	2.53	0.253

269					0	0.000	2.65	0.265
270					0	0.000	3.32	0.332

Table C14. Weather data for 2006

		GOOD	FD	max temp	min temp	rain	rain	sol rad	average RH
month	day	DAY	cons day	°C	°C	mm	cm	MJ/m2	%
3	28	328	296	31.93	22.09	30.9	3.09	15.62	78.26
3	29	329	297	33.17	22.09	1.4	0.14	15.62	78.26
3	30	330	298	33.17	22.09	0.0	0.00	15.92	78.26
3	31	331	299	33.17	22.09	0.0	0.00	23.31	78.26
4	1	332	300	27.52	22.09	0.0	0.00	19.78	78.26
4	2	333	301	27.52	23.63	0.0	0.00	20.73	78.26
4	3	334	302	27.52	23.63	0.0	0.00	16.39	78.26
4	4	335	303	31.93	23.63	0.0	0.00	14.64	78.26
4	5	336	304	29.9	23.63	2.1	0.21	10.36	78.26
4	6	337	305	31.93	23.24	8.0	0.80	10.38	78.26
4	7	338	306	34.01	22.09	2.7	0.27	15.18	78.26
4	8	339	307	28.31	22.09	8.0	0.80	8.00	78.26
4	9	340	308	34.43	22.09	3.4	0.34	19.46	78.26
4	10	341	309	34.43	22.09	0.0	0.00	21.97	78.26
4	11	342	310	36.13	22.48	0.0	0.00	21.79	78.26
4	12	343	311	35.7	22.48	0.0	0.00	20.24	78.26
4	13	344	312	32.76	22.86	0.0	0.00	16.03	78.26
4	14	345	313	33.17	22.48	5.4	0.54	13.92	78.26
4	15	346	314	31.93	22.86	0.0	0.00	13.80	78.26
4	16	347	315	33.17	22.48	0.0	0.00	19.83	78.26
4	17	348	316	33.17	21.71	0.0	0.00	12.66	78.26
4	18	349	317	31.93	22.09	17.1	1.71	12.42	78.26
4	19	350	318	31.93	22.48	21.1	2.11	21.01	78.26
4	20	351	319	33.17	22.09	0.0	0.00	20.81	78.26
4	21	352	320	35.7	23.208	0.8	0.08	19.30	78.26
4	22	353	321	33.079	22.561	8.0	0.80	15.89	78.26
4	23	354	322	24.146	22.369	70.1	7.01	3.80	78.26
4	24	355	323	31.357	21.461	0.0	0.00	19.30	78.26
4	25	356	324	34.651	22.848	26.9	2.69	17.78	78.26
4	26	357	325	32.717	21.557	40.7	4.07	14.33	78.26
4	27	358	326	32.175	21.7	0.8	0.08	17.50	78.26
4	28	359	327	32.124	22.896	0.0	0.00	10.31	78.26
4	29	360	328	30.167	22.633	0.0	0.00	12.84	78.26
4	30	361	329	28.717	22.513	11.9	1.19	8.00	78.26
5	1	362	330	32.047	21.652	0.0	0.00	18.15	78.26
5	2	363	331	31.791	22.561	2.1	0.21	16.27	78.26
5	3	364	332	31.689	20.817	54.4	5.44	12.15	78.26
5	4	365	333	30.748	20.793	0.0	0.00	13.61	78.26
5	5	366	334	31.408	22.441	11.9	1.19	13.44	78.26
5	6	367	335	29.389	22.417	17.8	1.78	10.32	78.26

5	7	368	336	26.622	22.417	45.9	4.59	6.52	78.26
5	8	369	337	29.165	22.489	0.0	0.00	10.89	78.26
5	9	370	338	31.357	22.321	8.0	0.80	17.94	78.26
5	10	371	339	28.965	21.867	8.6	0.86	13.98	78.26
5	11	372	340	28.816	20.865	12.6	1.26	11.70	78.26
5	12	373	341	31.459	21.485	0.0	0.00	19.12	78.26
5	13	374	342	32.021	23.136	0.0	0.00	16.48	78.26
5	14	375	343	32.587	22.226	0.0	0.00	18.64	78.26
5	15	376	344	32.124	22.226	27.6	2.76	10.89	78.26
5	16	377	345	31.663	22.944	0.0	0.00	13.08	78.26
5	17	378	346	30.041	22.465	0.0	0.00	8.21	78.26
5	18	379	347	29.54	22.561	9.3	0.93	11.02	78.26
5	19	380	348	25.89	20.793	0.0	0.00	7.03	78.26
5	20	381	349	32.717	20.603	0.0	0.00	20.36	78.26
5	21	382	350	33.495	21.318	0.0	0.00	23.19	78.26
5	22	383	351	33.757	20.365	0.0	0.00	22.44	78.26
5	23	384	352	30.343	22.537	11.9	1.19	10.01	78.26
5	24	385	353	27.014	20.817	56.4	5.64	7.62	78.26
5	25	386	354	31.74	21.175	16.5	1.65	16.78	78.26
5	26	387	355	28.369	21.366	12.6	1.26	12.02	78.26
5	27	388	356	31.331	21.127	0.0	0.00	16.68	78.26
5	28	389	357	28.692	21.939	38.1	3.81	10.50	78.26
5	29	390	358	27.85	21.223	18.4	1.84	10.59	78.26
5	30	391	359	32.484	21.676	7.3	0.73	19.41	78.26
5	31	392	360	30.722	22.896	1.4	0.14	14.12	78.26
6	1	393	361	29.19	22.178	11.9	1.19	6.74	78.26
6	2	394	362	32.613	20.793	12.6	1.26	20.96	78.26
6	3	395	363	33.469	21.175	2.1	0.21	21.02	78.26
6	4	396	364	33.105	21.891	4.0	0.40	18.73	78.26
6	5	397	365	32.175	22.178	0.8	0.08	17.64	78.26
6	6	398	366	32.021	21.509	0.0	0.00	18.24	78.26
6	7	399	367	26.378	21.843	44.6	4.46	4.56	78.26
6	8	400	368	23.497	21.39	13.2	1.32	2.92	78.26
6	9	401	369	30.722	20.079	2.1	0.21	14.82	78.26
6	10	402	370	31.663	22.082	0.0	0.00	18.48	78.26
6	11	403	371	29.365	22.465	4.7	0.47	11.79	78.26
6	12	404	372	27.358	21.7	37.4	3.74	7.71	78.26
6	13	405	373	30.596	20.412	9.9	0.99	18.37	78.26
6	14	406	374	31.077	21.032	8.0	0.80	13.91	78.26
6	15	407	375	30.95	21.079	0.0	0.00	18.13	78.26
6	16	408	376	29.19	21.127	16.2	1.62	13.28	78.26
6	17	409	377	28.593	20.793	12.2	1.22	14.10	78.26
6	18	410	378	30.419	21.795	2.6	0.26	18.02	78.26
6	19	411	379	31.765	22.226	0.2	0.02	16.38	78.26
6	20	412	380	31.179	22.274	15.6	1.56	16.52	78.26
6	21	413	381	31.357	21.891	10.0	1.00	12.76	78.26
6	22	414	382	31.255	21.318	9.8	0.98	14.70	78.26

6	23	415	383	32.047	22.13	12.4	1.24	19.21	78.26
6	24	416	384	32.742	22.417	0.0	0.00	18.89	78.26
6	25	417	385	30.167	22.13	4.6	0.46	12.40	78.26
6	26	418	386	29.14	23.208	3.6	0.36	10.07	78.26
6	27	419	387	27.801	22.274	76.6	7.66	11.17	78.26
6	28	420	388	31.586	22.178	1.4	0.14	14.31	78.26
6	29	421	389	31.306	22.561	2.2	0.22	16.71	78.26
6	30	422	390	33.313	22.561	0.8	0.08	18.76	78.26
7	1	423	391	33.365	22.298	5.7	0.57	19.22	78.26
7	2	424	392	30.672	22.513	11.2	1.12	10.00	78.26
7	3	425	393	28.245	21.557	45.8	4.58	8.45	78.26
7	4	426	394	27.505	21.127	1.2	0.12	9.62	78.26
7	5	427	395	26.426	22.178	4.8	0.48	7.29	78.26
7	6	428	396	28.941	21.509	1.2	0.12	10.74	78.26
7	7	429	397	30.596	21.223	0.2	0.02	17.16	78.26
7	8	430	398	32.562	21.366	1.6	0.16	17.13	78.26
7	9	431	399	32.355	21.604	44.3	4.43	19.39	78.26
7	10	432	400	29.464	21.103	33.1	3.31	12.25	78.26
7	11	433	401	31.765	21.366	0.6	0.06	18.54	78.26
7	12	434	402	31.586	23.04	47.2	4.72	14.00	78.26
7	13	435	403	31.586	23.04	0.8	0.08	17.00	78.26
7	14	436	404	31.586	23.04	19.1	1.91	16.00	78.26
7	15	437	405	31.586	23.04	7.3	0.73	17.00	78.26
7	16	438	406	31.586	23.04	14.5	1.45	17.00	78.26
7	17	439	407	31.586	23.04	2.7	0.27	19.00	78.26
7	18	440	408	31.586	23.04	0.0	0.00	19.36	78.26
7	19	441	409	31.586	23.04	2.7	0.27	19.00	78.26
7	20	442	410	31.586	23.04	0.0	0.00	19.36	78.26
7	21	443	411	32.794	22.226	0.0	0.00	19.36	78.26
7	22	444	412	28.941	22.082	16.6	1.66	11.84	78.26
7	23	445	413	31.179	21.557	36.0	3.60	15.54	78.26
7	24	446	414	27.063	20.246	20.8	2.08	6.63	78.26
7	25	447	415	26.378	20.603	12.4	1.24	6.17	78.26
7	26	448	416	32.717	20.079	0.2	0.02	21.32	78.26
7	27	449	417	32.846	21.485	1.4	0.14	20.15	78.26
7	28	450	418	26.061	20.031	1.0	0.10	7.83	78.26
7	29	451	419	25.914	19.08	7.6	0.76	9.18	78.26
7	30	452	420	33.261	17.796	0.0	0.00	22.71	78.26
7	31	453	421	32.021	21.366	0.0	0.00	12.91	78.26
8	1	454	422	28.493	21.509	6.4	0.64	11.50	78.26
8	2	455	423	30.646	20.889	5.8	0.58	16.88	78.26
8	3	456	424	32.639	19.841	0.6	0.06	15.82	78.26
8	4	457	425	29.54	21.604	5.4	0.54	9.53	78.26
8	5	458	426	30.545	21.843	0.4	0.04	16.68	78.26
8	6	459	427	32.665	21.652	0.0	0.00	15.33	78.26
8	7	460	428	29.015	22.274	3.8	0.38	9.91	78.26
8	8	461	429	32.15	22.13	18.6	1.86	18.23	78.26

8	9	462	430	32.613	21.939	0.0	0.00	20.76	78.26
8	10	463	431	31.128	22.345	0.6	0.06	10.60	78.26
8	11	464	432	27.604	20.269	22.0	2.20	6.97	78.26
8	12	465	433	28.667	19.08	0.0	0.00	13.65	78.26
8	13	466	434	33.626	20.174	0.0	0.00	20.92	78.26
8	14	467	435	33.6	22.082	0.0	0.00	19.26	78.26
8	15	468	436	31.382	22.753	5.2	0.52	14.23	78.26
8	16	469	437	30.773	21.246	49.6	4.96	15.30	78.26
8	17	470	438	32.407	21.748	26.9	2.69	15.97	78.26
8	18	471	439	30.748	22.369	3.2	0.32	15.28	78.26
8	19	472	440	27.998	21.819	5.8	0.58	8.52	78.26
8	20	473	441	31.459	20.698	7.4	0.74	14.01	78.26
8	21	474	442	32.124	21.127	0.2	0.02	15.93	78.26
8	22	475	443	31.001	21.557	0.0	0.00	19.75	78.26
8	23	476	444	32.562	23.184	1.2	0.12	17.87	78.26
8	24	477	445	30.95	21.795	61.6	6.16	10.65	78.26
8	25	478	446	30.9	22.25	2.8	0.28	15.61	78.26
8	26	479	447	33.992	22.8	0.8	0.08	22.34	78.26
8	27	480	448	31.919	21.795	49.0	4.90	11.14	78.26
8	28	481	449	32.639	21.987	4.7	0.47	17.44	78.26
8	29	482	450	31.842	20.841	0.2	0.02	14.12	78.26
8	30	483	451	32.613	21.795	0.6	0.06	21.93	78.26
8	31	484	452	33.391	21.819	5.6	0.56	17.86	78.26
9	1	485	453	32.484	22.034	0.0	0.00	19.57	78.26
9	2	486	454	34.598	22.274	0.0	0.00	23.08	78.26
9	3	487	455	32.949	22.657	10.4	1.04	15.54	78.26
9	4	488	456	30.798	20.889	1.0	0.10	11.85	78.26
9	5	489	457	30.167	21.748	14.2	1.42	11.61	78.26
9	6	490	458	31.052	21.604	0.0	0.00	20.92	78.26
9	7	491	459	29.69	21.079	0.0	0.00	15.74	78.26
9	8	492	460	33.053	21.509	0.6	0.06	20.28	78.26
9	9	493	461	33.235	21.7	8.6	0.86	17.93	78.26
9	10	494	462	32.253	22.657	0.0	0.00	14.87	78.26
9	11	495	463	24.171	20.984	19.5	1.95	4.55	78.26
9	12	496	464	31.714	20.889	3.2	0.32	14.30	78.26
9	13	497	465	32.175	21.557	0.0	0.00	18.32	78.26
9	14	498	466	34.124	21.7	0.6	0.06	23.81	78.26
9	15	499	467	30.976	22.011	19.2	1.92	18.40	78.26
9	16	500	468	29.865	21.485	9.0	0.90	13.28	78.26
9	17	501	469	30.646	21.987	0.0	0.00	16.67	78.26
9	18	502	470	28.221	21.175	2.4	0.24	11.29	78.26
9	19	503	471	32.691	22.345	1.4	0.14	20.42	78.26
9	20	504	472	34.334	21.676	0.0	0.00	21.09	78.26
9	21	505	473	34.36	22.513	0.0	0.00	23.10	78.26
9	22	506	474	34.124	23.016	0.4	0.04	19.03	78.26
9	23	507	475	33.678	21.557	30.4	3.04	16.73	78.26

9	24	508	476	30.192	21.795	7.0	0.70	17.11	78.26
9	25	509	477	33.001	22.082	14.2	1.42	19.44	78.26
9	26	510	478	33.704	20.913	0.2	0.02	19.71	78.26
9	27	511	479	34.73	21.867	0.0	0.00	23.71	78.26
9	28	512	480	32.975	23.088	0.4	0.04	14.95	78.26
9	29	513	481	32.175	22.417	21.6	2.16	16.93	78.26
9	30	514	482	32.021	21.939	0.0	0.00	16.54	78.26
10	1	515	483	30.697	21.939	25.8	2.58	13.69	78.26
10	2	516	484	31.765	22.226	0.0	0.00	16.88	78.26
10	3	517	485	29.54	21.939	12.0	1.20	13.81	78.26
10	4	518	486	32.021	22.345	0.0	0.00	19.97	78.26
10	5	519	487	32.717	23.424	1.2	0.12	13.82	78.26
10	6	520	488	34.229	23.954	0.0	0.00	18.20	78.26
10	7	521	489	33.548	22.92	18.6	1.86	16.40	78.26
10	8	522	490	33.209	22.226	0.0	0.00	20.58	78.26
10	9	523	491	32.073	22.369	0.0	0.00	16.31	78.26
10	10	524	492	34.334	23.088	2.2	0.22	20.84	78.26
10	11	525	493	33.235	22.848	22.0	2.20	22.27	78.26
10	12	526	494	33.339	23.232	0.0	0.00	20.86	78.26
10	13	527	495	32.975	22.034	12.4	1.24	16.49	78.26
10	14	528	496	32.278	22.369	16.2	1.62	12.93	78.26
10	15	529	497	33.261	22.417	0.0	0.00	18.20	78.26
10	16	530	498	33.626	23.112	0.0	0.00	21.16	78.26
10	17	531	499	30.167	22.369	0.2	0.02	15.24	78.26
10	18	532	500	32.949	22.657	0.0	0.00	20.55	78.26
10	19	533	501	33.157	22.369	48.0	4.80	15.48	78.26
10	20	534	502	30.52	21.748	29.4	2.94	11.72	78.26
10	21	535	503	33.131	21.748	16.8	1.68	19.66	78.26
10	22	536	504	32.846	22.753	19.2	1.92	20.47	78.26
10	23	537	505	24.146	19.222	95.2	9.52	0.65	78.26
10	24	538	506	31.791	18.319	0.0	0.00	23.10	78.26
10	25	539	507	32.924	21.7	5.8	0.58	22.88	78.26
10	26	540	508	25.695	21.557	6.8	0.68	4.79	78.26
10	27	541	509	33.027	21.795	0.0	0.00	20.33	81.10
10	28	542	510	32.768	22.321	0.0	0.00	20.60	78.49
10	29	543	511	33.626	23.569	0.2	0.02	19.05	82.73
10	30	544	512	33.157	22.465	0.2	0.02	21.55	77.86
10	31	545	513	33.157	23.136	0.0	0.00	18.72	77.77
11	1	546	514	32.872	22.848	0.0	0.00	23.69	76.58
11	2	547	515	32.872	22.848	0.0	0.00	23.69	65.36
11	3	548	516	33.652	21.509	0.0	0.00	23.55	71.40
11	4	549	517	33.548	21.604	0.0	0.00	18.69	79.18
11	5	550	518	31.001	23.809	0.0	0.00	11.04	84.00
11	6	551	519	33.757	23.424	0.8	0.08	22.55	78.26
11	7	552	520	32.691	23.424	2.0	0.20	12.72	78.26
11	8	553	521	29.565	21.819	33.0	3.30	8.44	78.26
11	9	554	522	31.919	21.294	36.4	3.64	15.34	84.72

11	10	555	523	32.407	21.366	0.2	0.02	21.12	81.60
11	11	556	524	33.417	22.896	0.0	0.00	21.55	77.53
11	12	557	525	27.087	22.106	25.0	2.50	6.47	91.88
11	13	558	526	30.142	21.509	1.0	0.10	13.60	87.47
11	14	559	527	31.052	22.034	6.0	0.60	15.86	85.28
11	15	560	528	29.84	21.27	27.4	2.74	16.58	85.04
11	16	561	529	31.561	22.345	0.0	0.00	19.28	78.26
11	17	562	530	29.54	21.413	3.8	0.38	13.64	78.26
11	18	563	531	32.047	21.413	0	0.00	20.02	78.26
11	19	564	532	28.593	22.848	13.4	1.34	11.57	78.26
11	20	565	533	29.64	21.437	7.8	0.78	15.31	78.26
11	21	566	534	32.562	21.7	6.8	0.68	21.58	78.26
11	22	567	535	32.15	21.987	1	0.10	21.49	78.26
11	23	568	536	32.924	22.585	0	0.00	19.96	78.26
11	24	569	537	31.077	22.178	0	0.00	11.41	78.26
11	25	570	538	32.175	21.509	39.2	3.92	12.89	78.26
11	26	571	539	31.586	21.795	0	0.00	16.19	78.26
11	27	572	540	32.846	22.226	0	0.00	18.82	78.26
11	28	573	541	32.846	21.772	1.2	0.12	20.34	78.26
11	29	574	542	33.261	22.824	0	0.00	15.72	78.26
11	30	575	543	32.794	22.705	0	0.00	19.84	78.26
12	1	576	544	33.287	21.891	0	0.00	19.51	75.78
12	2	577	545	33.105	22.321	0	0.00	19.67	74.75
12	3	578	546	33.521	22.274	0	0.00	21.63	73.74
12	4	579	547	33.183	22.465	0.2	0.02	19.35	79.19
12	5	580	548	33.443	22.657	0	0.00	19.14	74.06
12	6	581	549	33.783	21.795	0.0	0.00	17.86	75.12
12	7	582	550	32.33	22.082	42.6	4.26	8.96	86.77
12	8	583	551	33.365	22.13	0.2	0.02	22.01	73.41
12	9	584	552	33.209	22.705	0	0.00	20.91	72.46
12	10	585	553	32.898	22.657	0	0.00	18.42	75.20
12	11	586	554	32.098	22.274	0.8	0.08	16.02	80.62
12	12	587	555	31.204	21.891	0.8	0.08	14.74	82.37
12	13	588	556	32.278	23.184	0	0.00	16.39	75.65
12	14	589	557	31.944	21.294	0	0.00	18.34	73.61
12	15	590	558	32.33	20.841	0	0.00	18.30	74.04
12	16	591	559	33.157	20.698	0	0.00	20.54	73.12
12	17	592	560	33.235	20.817	0	0.00	20.91	72.97

GOOD	wind speed	ASCE PM	Priestly-T		root depth
DAY	km/d	mm/d	mm/d	DAP	
328	109	3.57	4.01		
329	84	3.55	4.07		
330	153	3.82	4.14		
331	207	5.09	5.82		
332	170	4.08	4.67		
333	170.00	4.29	4.94		
334	173	3.69	4.03		

335	160	3.63	3.85		
336	93	2.64	2.83		
337	66	2.59	2.88		
338	152	3.75	4.01		
339	65	2.09	2.27		
340	105	4.33	5.02		
341	134	4.82	5.6		
342	143	4.98	5.72		
343	173	4.76	5.32		
344	80	3.61	4.17		
345	121	3.41	3.69		
346	191	3.57	3.63		
347	179	4.51	5.03		
348	68	2.98	3.38		
349	130	3.13	3.3		
350	42	4.25	5.21		
351	90	4.41	5.23		0
352	84	4.36	5.12		0
353	110	3.68	4.13		0
354	58	1.27	1.24		0
355	77	3.99	4.73		0
356	75	3.98	4.66		0
357	129	3.44	3.72		0
358	56	3.68	4.4		0
359	133	2.84	2.84		0
360	119	3.09	3.33		0
361	80	2.16	2.26		0
362	78	3.84	4.52		0
363	67	3.52	4.13		0
364	124	3.01	3.17		0
365	62	2.97	3.45		0
366	70	3.05	3.49		0
367	128	2.7	2.75		0
368	44	1.73	1.92		0
369	93	2.65	2.87		0
370	86	3.81	4.45		0
371	80	3.05	3.48	seeding	0
372	66	2.62	2.98	1	0
373	66	3.9	4.67	2	0
374	52	3.52	4.2	3	0
375	52	3.88	4.66	4	0
376	88	2.72	2.94	5	3
377	57	2.95	3.42	6	6
378	84	2.23	2.31	7	9
379	71	2.59	2.89	8	12
380	87	1.94	1.98	9	15
381	219	4.51	4.96	10	18
382	205	4.99	5.67	11	21

383	203	4.85	5.47	12	24
384	148	2.75	2.7	13	27
385	34	1.83	2.11	14	30
386	69	3.53	4.14	15	33
387	43	2.57	3.02	16	36
388	73.00	3.40	4.09	17	39
389	104	2.59	2.74	18	42
390	90	2.51	2.71	19	45
391	132	4.18	4.77	20	48
392	67	3.1	3.58	21	51
393	99	2.04	1.98	22	54
394	107	4.32	5.06	23	57
395	159	4.54	5.16	24	60
396	127	4.11	4.66	25	63
397	191	4.07	4.38	26	66
398	132	3.96	4.47	27	69
399	129	1.76	1.47	28	72
400	67	1.11	0.98	29	75
401	87	3.19	3.62	30	78
402	232	4.24	4.52	31	81
403	180	3.06	3.02	32	84
404	99	2.12	2.13	33	87
405	87	3.72	4.35	34	90
406	129.00	3.09	3.48	35	93
407	170	3.95	4.35	36	96
408	91	2.93	3.28	37	99
409	103	3.05	3.4	38	102
410	85	3.7	4.33	39	102
411	109.00	3.54	4.08	40	102
412	132	3.67	4.08	41	102
413	80	2.92	3.27	42	102
414	57	3.12	3.66	43	102
415	49	3.89	4.7	44	102
416	105	4.06	4.69	45	102
417	82	2.84	3.16	46	102
418	80	2.47	2.67	47	102
419	67	2.52	2.84	48	102
420	70	3.15	3.62	49	102
421	58	3.49	4.14	50	102
422	123	4.14	4.7	51	102
423	73	4.05	4.8	52	102
424	65	2.42	2.68	53	102
425	111	2.29	2.29	54	102
426	83	2.32	2.5	55	102
427	83.00	1.99	2.05	56	102
428	258.00	2.54	2.77	57	102
429	258	4	4.14	58	102
430	77	3.65	4.25	59	102

431	83	4.02	4.74	60	102
432	149	2.99	3.08	61	102
433	219	4.19	4.51	62	102
434	116	3.3	3.59	63	102
435	110.00	3.76	4.25	64	102
436	108	3.58	4.03	65	102
437	75	3.63	4.25	66	102
438	93	3.69	4.25	67	102
439	86	3.99	4.69	68	102
440	68	3.99	4.76	69	102
441	56	3.9	4.69	70	102
442	69	4	4.77	71	102
443	85	4.09	4.81	72	102
444	193.00	2.73	3.02	73	102
445	300	3.96	3.86	74	102
446	147	2.13	1.91	75	102
447	96	1.87	1.82	76	102
448	125	4.41	5.13	77	102
449	110	4.26	4.96	78	102
450	121	2.17	2.12	79	102
451	81	2.18	2.36	80	102
452	25	4.32	5.35	81	102
453	73	2.95	3.34	82	102
454	80	2.64	2.93	83	102
455	71	3.5	4.11	84	102
456	44	3.3	3.95	85	102
457	64	2.32	2.57	86	102
458	72	3.5	4.11	87	102
459	87	3.44	3.92	88	102
460	79	2.44	2.65	89	102
461	75	3.86	4.55	90	102
462	105	4.37	5.13	91	102
463	84	2.63	2.85	92	102
464	119	2.09	2	93	102
465	87	2.93	3.32	94	102
466	55	4.26	5.15	95	102
467	74	4.12	4.88	96	102
468	95	3.27	3.67	97	102
469	82	3.32	3.82	98	102
470	111.00	3.52	4.06	99	102
471	141	3.54	3.86	100	102
472	76	2.19	2.34	101	102
473	94	3.18	3.56	102	102
474	50	3.38	4.02	103	102
475	91	4.07	4.8	104	102
476	83	3.91	4.56	105	102
477	97	2.68	2.86	106	102
478	76	3.4	3.94	107	102

479	50	4.64	5.67	108	102
480	92	2.78	3	109	102
481	114	3.89	4.43	110	102
482	58	3.1	3.62	111	102
483	80	4.51	5.41	112	102
484	70.00	3.90	4.56	113	102
485	63	4.08	4.90	114	102
486	148	5.05	5.87	115	102
487	84	3.53	4.05	116	102
488	70	2.75	3.1	117	102
489	79	2.74	3.05	118	102
490	98	4.29	5.08	119	102
491	62	3.29	3.88	first sb seeding	0
492	44	4.16	5.07		0
493	100.00	3.78	4.57		0
494	239	3.87	3.87		0
495	43	1.35	1.44		0
496	88	3.23	3.66		0
497	59	3.83	4.58		0
498	111	5.01	5.97		0
499	151	4.05	4.55	seeding	0
500	163	3.25	3.39	1	0
501	115	3.67	4.16	2	0
502	76	2.61	2.91	3	0
503	72	4.28	5.12	4	2
504	78	4.49	5.36	5	4
505	131	5.01	5.87	6	6
506	210	4.56	4.94	7	8
507	137	3.9	4.31	8	10
508	186	3.89	4.22	9	12
509	105	4.22	4.91	10	14
510	50	4.1	4.96	11	16
511	49	4.9	6	12	18
512	76	3.42	3.93	13	20
513	89	3.73	4.31	14	22
514	80.00	3.64	4.19	15	24
515	72	3.06	3.51	16	26
516	154	3.88	4.26	17	28
517	166	3.33	3.49	18	30
518	99	4.23	4.96	19	32
519	126	3.41	3.67	20	34
520	119	4.21	4.78	21	36
521	143	3.9	4.28	22	38
522	92	4.38	5.17	23	40
523	111	3.68	4.15	24	42
524	76	4.49	5.35	25	44
525	101	4.7	5.58	26	46

526	110	4.52	5.29	27	48
527	147	3.85	4.22	28	50
528	141	3.26	3.41	29	52
529	128	4.1	4.63	30	54
530	176	4.75	5.36	31	56
531	109	3.4	3.81	32	58
532	149	4.51	5.14	33	60
533	164	3.77	4.01	34	62
534	148	3	3.06	35	64
535	46	4.04	4.91	36	66
536	241	4.7	5.11	37	68
537	99	0.79	0.33	38	70
538	95	4.47	5.35	39	72
539	102	4.7	5.59	40	74
540	106	1.7	1.53	41	76
541	108	4.26	5.08	42	78
542	200.00	4.36	5.10	43	80
543	306	4.42	4.94	44	82
544	210	4.8	5.33	45	84
545	210	4.42	4.73	46	86
546	247	5.25	5.78	47	88
547	227	5.74	5.53	48	90
548	200	5.33	5.61	49	92
549	125	4.09	4.69	50	94
550	127	2.69	2.99	51	96
551	193	4.99	5.65	52	98
552	137	3.23	3.37	53	100
553	89	2.25	2.32	54	100
554	90	3.24	3.89	55	100
555	156	4.35	5.15	56	100
556	141	4.67	5.34	57	100
557	92	1.57	1.88	58	100
558	117	2.86	3.45	59	100
559	165	3.38	3.99	60	100
560	72	3.3	4.04	61	100
561	77	3.95	4.68	62	100
562	86	2.98	3.36	63	100
563	86.00	4.08	4.81	64	100
564	240.00	2.68	2.95	65	100
565	240	3.65	3.7	66	100
566	74	4.33	5.19	67	100
567	233	4.67	5.16	68	100
568	59	4.09	4.91	69	100
569	115	2.83	2.97	70	100
570	115.00	3.08	3.30	71	100
571	308.00	3.55	3.98	72	100
572	308	4.53	4.63	73	100
573	151	4.35	4.94	74	100

574	201	3.88	4	75	100
575	185	4.4	4.87	76	100
576	257.00	4.67	4.75	77	100
577	257.00	4.76	4.77	78	100
578	257.00	5.11	5.20	79	100
579	257.00	4.47	4.79	80	100
580	257.00	4.77	4.68	81	100
581	257.00	4.52	4.40	82	100
582	257.00	2.47	2.49	83	100
583	257.00	5.16	5.24	84	100
584	257.00	5.08	5.01	85	100
585	257.00	4.55	4.50	86	100
586	257.00	3.83	4.00	87	100
587	257.00	3.47	3.68	88	100
588	257.00	4.23	4.06	89	100
589	257.00	4.49	4.34	90	100
590	257.00	4.47	4.34	91	100
591	257.00	4.88	4.83	92	100
592	257.00	4.95	4.92	93	100

GOOD	CONTROL								
DAY	crop height	LAI day	LAI	Eto	SCF	T	T cm/d	E	E cm/d
328						0.00	0.00	4.01	0.40
329						0.00	0.00	4.07	0.41
330						0.00	0.00	4.14	0.41
331						0.00	0.00	5.82	0.58
332						0.00	0.00	4.67	0.47
333						0.00	0.00	4.94	0.49
334						0.00	0.00	4.03	0.40
335						0.00	0.00	3.85	0.39
336						0.00	0.00	2.83	0.28
337						0.00	0.00	2.88	0.29
338						0.00	0.00	4.01	0.40
339						0.00	0.00	2.27	0.23
340						0.00	0.00	5.02	0.50
341						0.00	0.00	5.60	0.56
342						0.00	0.00	5.72	0.57
343						0.00	0.00	5.32	0.53
344						0.00	0.00	4.17	0.42
345						0.00	0.00	3.69	0.37
346						0.00	0.00	3.63	0.36
347						0.00	0.00	5.03	0.50
348						0.00	0.00	3.38	0.34
349						0.00	0.00	3.30	0.33
350						0.00	0.00	5.21	0.52
351	0.00					0.00	0.00	5.23	0.52
352	0.00					0.00	0.00	5.12	0.51

353	0.00					0.00	0.00	4.13	0.41
354	0.00					0.00	0.00	1.24	0.12
355	0.00					0.00	0.00	4.73	0.47
356	0.00					0.00	0.00	4.66	0.47
357	0.00					0.00	0.00	3.72	0.37
358	0.00					0.00	0.00	4.40	0.44
359	0.00					0.00	0.00	2.84	0.28
360	0.00					0.00	0.00	3.33	0.33
361	0.00					0.00	0.00	2.26	0.23
362	0.00					0.00	0.00	4.52	0.45
363	0.00					0.00	0.00	4.13	0.41
364	0.00					0.00	0.00	3.17	0.32
365	0.00					0.00	0.00	3.45	0.35
366	0.00					0.00	0.00	3.49	0.35
367	0.00					0.00	0.00	2.75	0.28
368	0.00					0.00	0.00	1.92	0.19
369	0.00					0.00	0.00	2.87	0.29
370	0.00					0.00	0.00	4.45	0.45
371	0.00					0.00	0.00	3.48	0.35
372	0.00					0.00	0.00	0.00	0.00
373	0.00					0.00	0.00	0.00	0.00
374	0.00					0.00	0.00	0.00	0.00
375	0.00					0.00	0.00	0.00	0.00
376	7.64	1	0.0781	2.94	0.0355	0.10	0.01	2.84	0.28
377	8.01	2	0.0831	3.42	0.0377	0.13	0.01	3.29	0.33
378	8.41	3	0.0884	2.31	0.0401	0.09	0.01	2.22	0.22
379	8.82	4	0.0940	2.89	0.0426	0.12	0.01	2.77	0.28
380	9.25	5	0.1000	1.98	0.0452	0.09	0.01	1.89	0.19
381	9.70	6	0.1064	4.96	0.0481	0.24	0.02	4.72	0.47
382	10.18	7	0.1132	5.67	0.0510	0.29	0.03	5.38	0.54
383	10.68	8	0.1204	5.47	0.0542	0.30	0.03	5.17	0.52
384	11.20	9	0.1281	2.7	0.0576	0.16	0.02	2.54	0.25
385	11.75	10	0.1362	2.11	0.0611	0.13	0.01	1.98	0.20
386	12.32	11	0.1449	4.14	0.0649	0.27	0.03	3.87	0.39
387	12.93	12	0.1542	3.02	0.0689	0.21	0.02	2.81	0.28
388	13.56	13	0.1640	4.09	0.0731	0.30	0.03	3.79	0.38
389	14.23	14	0.1745	2.74	0.0776	0.21	0.02	2.53	0.25
390	14.92	15	0.1856	2.71	0.0823	0.22	0.02	2.49	0.25
391	15.65	16	0.1974	4.77	0.0874	0.42	0.04	4.35	0.44
392	16.42	17	0.2100	3.58	0.0927	0.33	0.03	3.25	0.32
393	17.22	18	0.2234	1.98	0.0983	0.19	0.02	1.79	0.18
394	18.07	19	0.2377	5.06	0.1042	0.53	0.05	4.53	0.45
395	18.95	20	0.2528	5.16	0.1105	0.57	0.06	4.59	0.46
396	19.88	21	0.2690	4.66	0.1171	0.55	0.05	4.11	0.41
397	20.85	22	0.2861	4.38	0.1241	0.54	0.05	3.84	0.38
398	21.88	23	0.3044	4.47	0.1314	0.59	0.06	3.88	0.39
399	22.95	24	0.3238	1.47	0.1392	0.20	0.02	1.27	0.13
400	24.07	25	0.3444	0.98	0.1474	0.14	0.01	0.84	0.08

401	25.25	26	0.3664	3.62	0.1560	0.56	0.06	3.06	0.31
402	26.49	27	0.3898	4.52	0.1651	0.75	0.07	3.77	0.38
403	27.79	28	0.4147	3.02	0.1747	0.53	0.05	2.49	0.25
404	29.15	29	0.4411	2.13	0.1847	0.39	0.04	1.74	0.17
405	30.57	30	0.4692	4.35	0.1953	0.85	0.08	3.50	0.35
406	32.07	31	0.4992	3.48	0.2064	0.72	0.07	2.76	0.28
407	33.64	32	0.5310	4.35	0.2180	0.95	0.09	3.40	0.34
408	35.29	33	0.5649	3.28	0.2301	0.75	0.08	2.53	0.25
409	37.02	34	0.6009	3.4	0.2429	0.83	0.08	2.57	0.26
410	38.83	35	0.6393	4.33	0.2562	1.11	0.11	3.22	0.32
411	40.73	36	0.6800	4.08	0.2701	1.10	0.11	2.98	0.30
412	42.73	37	0.7234	4.08	0.2846	1.16	0.12	2.92	0.29
413	44.82	38	0.7696	3.27	0.2997	0.98	0.10	2.29	0.23
414	47.02	39	0.8187	3.66	0.3155	1.15	0.12	2.51	0.25
415	49.32	40	0.8709	4.7	0.3318	1.56	0.16	3.14	0.31
416	51.74	41	0.9265	4.69	0.3488	1.64	0.16	3.05	0.31
417	54.27	42	0.9856	3.16	0.3664	1.16	0.12	2.00	0.20
418	56.93	43	1.0484	2.67	0.3846	1.03	0.10	1.64	0.16
419	59.72	44	1.1153	2.84	0.4033	1.15	0.11	1.69	0.17
420	62.64	45	1.1865	3.62	0.4227	1.53	0.15	2.09	0.21
421	65.71	46	1.2621	4.14	0.4425	1.83	0.18	2.31	0.23
422	68.93	47	1.3427	4.7	0.4629	2.18	0.22	2.52	0.25
423	72.31	48	1.4283	4.8	0.4838	2.32	0.23	2.48	0.25
424	75.85	49	1.5194	2.68	0.5051	1.35	0.14	1.33	0.13
425	79.56	50	1.6163	2.29	0.5269	1.21	0.12	1.08	0.11
426	83.46	51	1.7195	2.5	0.5489	1.37	0.14	1.13	0.11
427	87.55	52	1.8291	2.05	0.5713	1.17	0.12	0.88	0.09
428	91.84	53	1.9458	2.77	0.5938	1.64	0.16	1.13	0.11
429	96.33	54	2.0700	4.14	0.6165	2.55	0.26	1.59	0.16
430	101.05	55	2.2020	4.25	0.6392	2.72	0.27	1.53	0.15
431	106.00	56	2.3425	4.74	0.6620	3.14	0.31	1.60	0.16
432	111.20	57	2.4919	3.08	0.6845	2.11	0.21	0.97	0.10
433	116.64	58	2.6509	4.51	0.7069	3.19	0.32	1.32	0.13
434	122.36	59	2.8200	3.59	0.7290	2.62	0.26	0.97	0.10
435	128.35	60	2.9999	4.25	0.7507	3.19	0.32	1.06	0.11
436	134.63	65	2.9999	4.03	0.7507	3.03	0.30	1.00	0.10
437	141.23		2.9999	4.25	0.7507	3.19	0.32	1.06	0.11
438	148.15		2.9999	4.25	0.7507	3.19	0.32	1.06	0.11
439	155.40		2.9999	4.69	0.7507	3.52	0.35	1.17	0.12
440	163.02		2.9999	4.76	0.7507	3.57	0.36	1.19	0.12
441	171.00		2.9999	4.69	0.7507	3.52	0.35	1.17	0.12
442	171.00		2.9999	4.77	0.7507	3.58	0.36	1.19	0.12
443	171.00		2.9999	4.81	0.7507	3.61	0.36	1.20	0.12
444	171.00		2.9999	3.02	0.7507	2.27	0.23	0.75	0.08
445	171.00		2.9999	3.86	0.7507	2.90	0.29	0.96	0.10
446	171.00		2.9999	1.91	0.7507	1.43	0.14	0.48	0.05
447	171.00		2.9999	1.82	0.7507	1.37	0.14	0.45	0.05
448	171.00		2.9999	5.13	0.7507	3.85	0.39	1.28	0.13

449	171.00		2.9999	4.96	0.7507	3.72	0.37	1.24	0.12
450	171.00		2.9999	2.12	0.7507	1.59	0.16	0.53	0.05
451	171.00		2.9999	2.36	0.7507	1.77	0.18	0.59	0.06
452	171.00		2.9999	5.35	0.7507	4.02	0.40	1.33	0.13
453	171.00		2.9999	3.34	0.7507	2.51	0.25	0.83	0.08
454	171.00		2.9999	2.93	0.7507	2.20	0.22	0.73	0.07
455	171.00		2.9999	4.11	0.7507	3.09	0.31	1.02	0.10
456	171.00		2.7863	3.95	0.7247	2.86	0.29	1.09	0.11
457	171.00		2.5336	2.57	0.6906	1.77	0.18	0.80	0.08
458	171.00		2.3039	4.11	0.6559	2.70	0.27	1.41	0.14
459	171.00		2.0949	3.92	0.6209	2.43	0.24	1.49	0.15
460	171.00		1.9050	2.65	0.5860	1.55	0.16	1.10	0.11
461	171.00		1.7322	4.55	0.5516	2.51	0.25	2.04	0.20
462	171.00		1.5751	5.13	0.5177	2.66	0.27	2.47	0.25
463	171.00		1.4323	2.85	0.4848	1.38	0.14	1.47	0.15
464	171.00		1.3024	2	0.4528	0.91	0.09	1.09	0.11
465	171.00		1.1843	3.32	0.4221	1.40	0.14	1.92	0.19
466	171.00		1.0769	5.15	0.3926	2.02	0.20	3.13	0.31
467	171.00		0.9793	4.88	0.3645	1.78	0.18	3.10	0.31
468	171.00		0.8905	3.67	0.3379	1.24	0.12	2.43	0.24
469	171.00		0.8097	3.82	0.3126	1.19	0.12	2.63	0.26
470	171.00		0.7363	4.06	0.2889	1.17	0.12	2.89	0.29
471	171.00		0.6695	3.86	0.2665	1.03	0.10	2.83	0.28
472	171.00		0.6088	2.34	0.2456	0.57	0.06	1.77	0.18
473	171.00		0.5536	3.56	0.2261	0.80	0.08	2.76	0.28
474	171.00		0.5034	4.02	0.2079	0.84	0.08	3.18	0.32
475	171.00		0.4577	4.8	0.1910	0.92	0.09	3.88	0.39
476	171.00		0.4162	4.56	0.1753	0.80	0.08	3.76	0.38
477	171.00		0.3785	2.86	0.1607	0.46	0.05	2.40	0.24
478	171.00		0.3442	3.94	0.1473	0.58	0.06	3.36	0.34
479	171.00		0.3130	5.67	0.1349	0.76	0.08	4.91	0.49
480	171.00		0.2846	3	0.1234	0.37	0.04	2.63	0.26
481	171.00		0.2588	4.43	0.1129	0.50	0.05	3.93	0.39
482	171.00		0.2353	3.62	0.1032	0.37	0.04	3.25	0.32
483	171.00		0.2140	5.41	0.0943	0.51	0.05	4.90	0.49
484	171.00		0.1946	4.56	0.0861	0.39	0.04	4.17	0.42
485	171.00		0.1769	4.9	0.0787	0.39	0.04	4.51	0.45
486	171.00		0.1609	5.87	0.0718	0.42	0.04	5.45	0.54
487	171.00		0.1463	4.05	0.0655	0.27	0.03	3.78	0.38
488	171.00		0.1330	3.1	0.0597	0.19	0.02	2.91	0.29
489	171.00		0.1210	3.05	0.0545	0.17	0.02	2.88	0.29
490	171.00		0.1100	5.08	0.0497	0.25	0.03	4.83	0.48
491	0.00					0.00	0.00	3.88	0.39
492	0.00					0.00	0.00	5.07	0.51
493	0.00					0.00	0.00	4.57	0.46
494	0.00					0.00	0.00	3.87	0.39
495	0.00					0.00	0.00	1.44	0.14

496	0.00					0.00	0.00	3.66	0.37
497	0.00					0.00	0.00	4.58	0.46
498	0.00					0.00	0.00	5.97	0.60
499	0.00					0.00	0.00	4.55	0.46
500	0.00			3.39	0.0000	0.00	0.00	3.39	0.34
501	0.00			4.16	0.0000	0.00	0.00	4.16	0.42
502	0.00			2.91	0.0000	0.00	0.00	2.91	0.29
503	1.53	1	0.0712	5.12	0.0324	0.17	0.02	4.95	0.50
504	2.58	2	0.0775	5.36	0.0352	0.19	0.02	5.17	0.52
505	3.63	3	0.0844	5.87	0.0383	0.22	0.02	5.65	0.56
506	4.68	4	0.0919	4.94	0.0416	0.21	0.02	4.73	0.47
507	5.73	5	0.1000	4.31	0.0452	0.20	0.02	4.11	0.41
508	6.78	6	0.1089	4.22	0.0492	0.21	0.02	4.01	0.40
509	7.83	7	0.1185	4.91	0.0534	0.26	0.03	4.65	0.46
510	8.88	8	0.1291	4.96	0.0580	0.29	0.03	4.67	0.47
511	9.92	9	0.1405	6	0.0630	0.38	0.04	5.62	0.56
512	10.97	10	0.1530	3.93	0.0684	0.27	0.03	3.66	0.37
513	12.02	11	0.1666	4.31	0.0742	0.32	0.03	3.99	0.40
514	13.07	12	0.1813	4.19	0.0805	0.34	0.03	3.85	0.39
515	14.12	13	0.1974	3.51	0.0874	0.31	0.03	3.20	0.32
516	15.17	14	0.2150	4.26	0.0947	0.40	0.04	3.86	0.39
517	16.22	15	0.2340	3.49	0.1027	0.36	0.04	3.13	0.31
518	17.27	16	0.2548	4.96	0.1113	0.55	0.06	4.41	0.44
519	18.32	17	0.2774	3.67	0.1205	0.44	0.04	3.23	0.32
520	19.37	18	0.3021	4.78	0.1305	0.62	0.06	4.16	0.42
521	20.42	19	0.3289	4.28	0.1412	0.60	0.06	3.68	0.37
522	21.46	20	0.3580	5.17	0.1528	0.79	0.08	4.38	0.44
523	22.51	21	0.3898	4.15	0.1651	0.69	0.07	3.46	0.35
524	23.56	22	0.4244	5.35	0.1784	0.95	0.10	4.40	0.44
525	24.61	23	0.4621	5.58	0.1926	1.07	0.11	4.51	0.45
526	25.66	24	0.5031	5.29	0.2078	1.10	0.11	4.19	0.42
527	26.71	25	0.5477	4.22	0.2240	0.95	0.09	3.27	0.33
528	27.76	26	0.5964	3.41	0.2413	0.82	0.08	2.59	0.26
529	28.81	27	0.6493	4.63	0.2596	1.20	0.12	3.43	0.34
530	29.86	28	0.7069	5.36	0.2791	1.50	0.15	3.86	0.39
531	30.91	29	0.7696	3.81	0.2998	1.14	0.11	2.67	0.27
532	31.96	30	0.8380	5.14	0.3216	1.65	0.17	3.49	0.35
533	33.00	31	0.9123	4.01	0.3445	1.38	0.14	2.63	0.26
534	34.05	32	0.9933	3.06	0.3686	1.13	0.11	1.93	0.19
535	35.10	33	1.0814	4.91	0.3939	1.93	0.19	2.98	0.30
536	36.15	34	1.1774	5.11	0.4202	2.15	0.21	2.96	0.30
537	37.20	35	1.2819	0.33	0.4476	0.15	0.01	0.18	0.02
538	38.25	36	1.3957	5.35	0.4760	2.55	0.25	2.80	0.28
539	39.30	37	1.5196	5.59	0.5052	2.82	0.28	2.77	0.28
540	40.35	38	1.6544	1.53	0.5351	0.82	0.08	0.71	0.07
541	41.40	39	1.8012	5.08	0.5657	2.87	0.29	2.21	0.22
542	42.45	40	1.9611	5.1	0.5967	3.04	0.30	2.06	0.21
543	43.50	41	2.1352	4.94	0.6279	3.10	0.31	1.84	0.18

544	44.54	42	2.3246	5.33	0.6591	3.51	0.35	1.82	0.18
545	45.59	43	2.5310	4.73	0.6902	3.26	0.33	1.47	0.15
546	46.64	44	2.7556	5.78	0.7208	4.17	0.42	1.61	0.16
547	47.69	45	3.0001	5.53	0.7507	4.15	0.42	1.38	0.14
548	48.74	46	3.0001	5.61	0.7507	4.21	0.42	1.40	0.14
549	49.79	47	3.0001	4.69	0.7507	3.52	0.35	1.17	0.12
550	50.84	48	3.0001	2.99	0.7507	2.24	0.22	0.75	0.07
551	51.89	49	3.0001	5.65	0.7507	4.24	0.42	1.41	0.14
552	52.94	50	3.0001	3.37	0.7507	2.53	0.25	0.84	0.08
553	53.99	51	3.0001	2.32	0.7507	1.74	0.17	0.58	0.06
554	53.99	52	3.0001	3.89	0.7507	2.92	0.29	0.97	0.10
555	53.99	53	3.0001	5.15	0.7507	3.87	0.39	1.28	0.13
556	53.99	54	3.0001	5.34	0.7507	4.01	0.40	1.33	0.13
557	53.99	55	3.0001	1.88	0.7507	1.41	0.14	0.47	0.05
558	53.99	56	3.0001	3.45	0.7507	2.59	0.26	0.86	0.09
559	53.99	57	3.0001	3.99	0.7507	3.00	0.30	0.99	0.10
560	53.99	58	3.0001	4.04	0.7507	3.03	0.30	1.01	0.10
561	53.99	59	3.0001	4.68	0.7507	3.51	0.35	1.17	0.12
562	53.99	60	3.0001	3.36	0.7507	2.52	0.25	0.84	0.08
563	53.99	61	3.0001	4.81	0.7507	3.61	0.36	1.20	0.12
564	53.99	62	3.0001	2.95	0.7507	2.21	0.22	0.74	0.07
565	53.99	63	3.0001	3.7	0.7507	2.78	0.28	0.92	0.09
566	53.99	64	3.0001	5.19	0.7507	3.90	0.39	1.29	0.13
567	53.99	65	2.7863	5.16	0.7247	3.74	0.37	1.42	0.14
568	53.99	66	2.5336	4.91	0.6906	3.39	0.34	1.52	0.15
569	53.99	67	2.3039	2.97	0.6559	1.95	0.19	1.02	0.10
570	53.99	68	2.0949	3.3	0.6209	2.05	0.20	1.25	0.13
571	53.99	69	1.9050	3.98	0.5860	2.33	0.23	1.65	0.16
572	53.99	70	1.7322	4.63	0.5516	2.55	0.26	2.08	0.21
573	53.99	71	1.5751	4.94	0.5177	2.56	0.26	2.38	0.24
574	53.99	72	1.4323	4	0.4848	1.94	0.19	2.06	0.21
575	53.99	73	1.3024	4.87	0.4528	2.21	0.22	2.66	0.27
576	53.99	74	1.1843	4.75	0.4221	2.00	0.20	2.75	0.27
577	53.99	75	1.0769	4.77	0.3926	1.87	0.19	2.90	0.29
578	53.99	76	0.9793	5.2	0.3645	1.90	0.19	3.30	0.33
579	53.99	77	0.8905	4.79	0.3379	1.62	0.16	3.17	0.32
580	53.99	78	0.8097	4.68	0.3126	1.46	0.15	3.22	0.32
581	53.99	79	0.7363	4.4	0.2889	1.27	0.13	3.13	0.31
582	53.99	80	0.6695	2.49	0.2665	0.66	0.07	1.83	0.18
583	53.99	81	0.6088	5.24	0.2456	1.29	0.13	3.95	0.40
584	53.99	82	0.5536	5.01	0.2261	1.13	0.11	3.88	0.39
585	53.99	83	0.5034	4.5	0.2079	0.94	0.09	3.56	0.36
586	53.99	84	0.4577	4	0.1910	0.76	0.08	3.24	0.32
587	53.99	85	0.4162	3.68	0.1753	0.65	0.06	3.03	0.30
588	53.99	86	0.3785	4.06	0.1607	0.65	0.07	3.41	0.34
589	53.99	87	0.3442	4.34	0.1473	0.64	0.06	3.70	0.37
590	53.99	88	0.3130	4.34	0.1349	0.59	0.06	3.75	0.38
591	53.99	89	0.2846	4.83	0.1234	0.60	0.06	4.23	0.42

592	53.99	90	0.2588	4.92	0.1129	0.56	0.06	4.36	0.44
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GOOD	BIOCHAR							
DAY	crop height	LAI	Eto	SCF	T	T cm/d	E	E cm/d
328					0.00	0.00	4.01	0.40
329					0.00	0.00	4.07	0.41
330					0.00	0.00	4.14	0.41
331					0.00	0.00	5.82	0.58
332					0.00	0.00	4.67	0.47
333					0.00	0.00	4.94	0.49
334					0.00	0.00	4.03	0.40
335					0.00	0.00	3.85	0.39
336					0.00	0.00	2.83	0.28
337					0.00	0.00	2.88	0.29
338					0.00	0.00	4.01	0.40
339					0.00	0.00	2.27	0.23
340					0.00	0.00	5.02	0.50
341					0.00	0.00	5.60	0.56
342					0.00	0.00	5.72	0.57
343					0.00	0.00	5.32	0.53
344					0.00	0.00	4.17	0.42
345					0.00	0.00	3.69	0.37
346					0.00	0.00	3.63	0.36
347					0.00	0.00	5.03	0.50
348					0.00	0.00	3.38	0.34
349					0.00	0.00	3.30	0.33
350					0.00	0.00	5.21	0.52
351	0.00	0.00			0.00	0.00	5.23	0.52
352	0.00	0.00			0.00	0.00	5.12	0.51
353	0.00	0.00			0.00	0.00	4.13	0.41
354	0.00	0.00			0.00	0.00	1.24	0.12
355	0.00	0.00			0.00	0.00	4.73	0.47
356	0.00	0.00			0.00	0.00	4.66	0.47
357	0.00	0.00			0.00	0.00	3.72	0.37
358	0.00	0.00			0.00	0.00	4.40	0.44
359	0.00	0.00			0.00	0.00	2.84	0.28
360	0.00	0.00			0.00	0.00	3.33	0.33
361	0.00	0.00			0.00	0.00	2.26	0.23
362	0.00	0.00			0.00	0.00	4.52	0.45
363	0.00	0.00			0.00	0.00	4.13	0.41
364	0.00	0.00			0.00	0.00	3.17	0.32
365	0.00	0.00			0.00	0.00	3.45	0.35
366	0.00	0.00			0.00	0.00	3.49	0.35
367	0.00	0.00			0.00	0.00	2.75	0.28
368	0.00	0.00			0.00	0.00	1.92	0.19
369	0.00	0.00			0.00	0.00	2.87	0.29
370	0.00	0.00			0.00	0.00	4.45	0.45

371	0.00	0.00			0.00	0.00	3.48	0.35
372	0.00	0.00			0.00	0.00	0.00	0.00
373	0.00	0.00			0.00	0.00	0.00	0.00
374	0.00	0.00			0.00	0.00	0.00	0.00
375	0.00	0.00			0.00	0.00	0.00	0.00
376	7.30	0.08	2.94	0.03	0.10	0.01	2.84	0.28
377	7.73	0.08	3.42	0.04	0.13	0.01	3.29	0.33
378	8.20	0.09	2.31	0.04	0.09	0.01	2.22	0.22
379	8.68	0.09	2.89	0.04	0.12	0.01	2.77	0.28
380	9.20	0.10	1.98	0.05	0.09	0.01	1.89	0.19
381	9.75	0.11	4.96	0.05	0.24	0.02	4.72	0.47
382	10.33	0.12	5.67	0.05	0.29	0.03	5.38	0.54
383	10.95	0.12	5.47	0.06	0.30	0.03	5.17	0.52
384	11.60	0.13	2.70	0.06	0.16	0.02	2.54	0.25
385	12.29	0.14	2.11	0.06	0.13	0.01	1.98	0.20
386	13.02	0.15	4.14	0.07	0.28	0.03	3.86	0.39
387	13.80	0.16	3.02	0.07	0.22	0.02	2.80	0.28
388	14.62	0.18	4.09	0.08	0.32	0.03	3.77	0.38
389	15.49	0.19	2.74	0.08	0.23	0.02	2.51	0.25
390	16.42	0.20	2.71	0.09	0.24	0.02	2.47	0.25
391	17.40	0.22	4.77	0.10	0.46	0.05	4.31	0.43
392	18.43	0.23	3.58	0.10	0.37	0.04	3.21	0.32
393	19.53	0.25	1.98	0.11	0.22	0.02	1.76	0.18
394	20.70	0.27	5.06	0.12	0.59	0.06	4.47	0.45
395	21.93	0.29	5.16	0.13	0.65	0.06	4.51	0.45
396	23.24	0.31	4.66	0.13	0.62	0.06	4.04	0.40
397	24.62	0.33	4.38	0.14	0.63	0.06	3.75	0.38
398	26.09	0.36	4.47	0.15	0.68	0.07	3.79	0.38
399	27.65	0.38	1.47	0.16	0.24	0.02	1.23	0.12
400	29.29	0.41	0.98	0.17	0.17	0.02	0.81	0.08
401	31.04	0.44	3.62	0.19	0.67	0.07	2.95	0.29
402	32.89	0.48	4.52	0.20	0.89	0.09	3.63	0.36
403	34.85	0.51	3.02	0.21	0.64	0.06	2.38	0.24
404	36.93	0.55	2.13	0.22	0.48	0.05	1.65	0.17
405	39.13	0.59	4.35	0.24	1.04	0.10	3.31	0.33
406	41.46	0.63	3.48	0.25	0.88	0.09	2.60	0.26
407	43.93	0.68	4.35	0.27	1.17	0.12	3.18	0.32
408	46.55	0.73	3.28	0.29	0.94	0.09	2.34	0.23
409	49.33	0.78	3.40	0.30	1.03	0.10	2.37	0.24
410	52.27	0.84	4.33	0.32	1.39	0.14	2.94	0.29
411	55.38	0.90	4.08	0.34	1.39	0.14	2.69	0.27
412	58.68	0.97	4.08	0.36	1.47	0.15	2.61	0.26
413	62.18	1.04	3.27	0.38	1.25	0.12	2.02	0.20
414	65.89	1.11	3.66	0.40	1.47	0.15	2.19	0.22
415	69.82	1.19	4.70	0.42	2.00	0.20	2.70	0.27
416	73.98	1.28	4.69	0.45	2.10	0.21	2.59	0.26
417	78.39	1.38	3.16	0.47	1.49	0.15	1.67	0.17
418	83.06	1.48	2.67	0.50	1.32	0.13	1.35	0.13

419	88.01	1.59	2.84	0.52	1.48	0.15	1.36	0.14
420	93.26	1.70	3.62	0.55	1.97	0.20	1.65	0.16
421	98.82	1.83	4.14	0.57	2.36	0.24	1.78	0.18
422	104.71	1.96	4.70	0.60	2.80	0.28	1.90	0.19
423	110.95	2.11	4.80	0.62	2.99	0.30	1.81	0.18
424	117.56	2.26	2.68	0.65	1.74	0.17	0.94	0.09
425	124.57	2.43	2.29	0.67	1.55	0.15	0.74	0.07
426	132.00	2.60	2.50	0.70	1.75	0.18	0.75	0.07
427	139.87	2.80	2.05	0.73	1.49	0.15	0.56	0.06
428	148.20	3.00	2.77	0.75	2.08	0.21	0.69	0.07
429	157.04	3.00	4.14	0.75	3.11	0.31	1.03	0.10
430	166.40	3.00	4.25	0.75	3.19	0.32	1.06	0.11
431	176.32	3.00	4.74	0.75	3.56	0.36	1.18	0.12
432	186.83	3.00	3.08	0.75	2.31	0.23	0.77	0.08
433	186.83	3.00	4.51	0.75	3.39	0.34	1.12	0.11
434	186.83	3.00	3.59	0.75	2.70	0.27	0.89	0.09
435	186.83	3.00	4.25	0.75	3.19	0.32	1.06	0.11
436	186.83	3.00	4.03	0.75	3.03	0.30	1.00	0.10
437	186.83	3.00	4.25	0.75	3.19	0.32	1.06	0.11
438	186.83	3.00	4.25	0.75	3.19	0.32	1.06	0.11
439	186.83	3.00	4.69	0.75	3.52	0.35	1.17	0.12
440	186.83	3.00	4.76	0.75	3.57	0.36	1.19	0.12
441	186.83	3.00	4.69	0.75	3.52	0.35	1.17	0.12
442	186.83	3.00	4.77	0.75	3.58	0.36	1.19	0.12
443	186.83	3.00	4.81	0.75	3.61	0.36	1.20	0.12
444	186.83	3.00	3.02	0.75	2.27	0.23	0.75	0.08
445	186.83	3.00	3.86	0.75	2.90	0.29	0.96	0.10
446	186.83	3.00	1.91	0.75	1.43	0.14	0.48	0.05
447	186.83	3.00	1.82	0.75	1.37	0.14	0.45	0.05
448	186.83	3.00	5.13	0.75	3.85	0.39	1.28	0.13
449	186.83	3.00	4.96	0.75	3.72	0.37	1.24	0.12
450	186.83	3.00	2.12	0.75	1.59	0.16	0.53	0.05
451	186.83	3.00	2.36	0.75	1.77	0.18	0.59	0.06
452	186.83	3.00	5.35	0.75	4.02	0.40	1.33	0.13
453	186.83	3.00	3.34	0.75	2.51	0.25	0.83	0.08
454	186.83	3.00	2.93	0.75	2.20	0.22	0.73	0.07
455	186.83	3.00	4.11	0.75	3.09	0.31	1.02	0.10
456	186.83	2.79	3.95	0.72	2.86	0.29	1.09	0.11
457	186.83	2.53	2.57	0.69	1.77	0.18	0.80	0.08
458	186.83	2.30	4.11	0.66	2.70	0.27	1.41	0.14
459	186.83	2.09	3.92	0.62	2.43	0.24	1.49	0.15
460	186.83	1.90	2.65	0.59	1.55	0.16	1.10	0.11
461	186.83	1.73	4.55	0.55	2.51	0.25	2.04	0.20
462	186.83	1.58	5.13	0.52	2.66	0.27	2.47	0.25
463	186.83	1.43	2.85	0.48	1.38	0.14	1.47	0.15
464	186.83	1.30	2.00	0.45	0.91	0.09	1.09	0.11
465	186.83	1.18	3.32	0.42	1.40	0.14	1.92	0.19
466	186.83	1.08	5.15	0.39	2.02	0.20	3.13	0.31

467	186.83	0.98	4.88	0.36	1.78	0.18	3.10	0.31
468	186.83	0.89	3.67	0.34	1.24	0.12	2.43	0.24
469	186.83	0.81	3.82	0.31	1.19	0.12	2.63	0.26
470	186.83	0.74	4.06	0.29	1.17	0.12	2.89	0.29
471	186.83	0.67	3.86	0.27	1.03	0.10	2.83	0.28
472	186.83	0.61	2.34	0.25	0.57	0.06	1.77	0.18
473	186.83	0.55	3.56	0.23	0.80	0.08	2.76	0.28
474	186.83	0.50	4.02	0.21	0.84	0.08	3.18	0.32
475	186.83	0.46	4.80	0.19	0.92	0.09	3.88	0.39
476	186.83	0.42	4.56	0.18	0.80	0.08	3.76	0.38
477	186.83	0.38	2.86	0.16	0.46	0.05	2.40	0.24
478	186.83	0.34	3.94	0.15	0.58	0.06	3.36	0.34
479	186.83	0.31	5.67	0.13	0.76	0.08	4.91	0.49
480	186.83	0.28	3.00	0.12	0.37	0.04	2.63	0.26
481	186.83	0.26	4.43	0.11	0.50	0.05	3.93	0.39
482	186.83	0.24	3.62	0.10	0.37	0.04	3.25	0.32
483	186.83	0.21	5.41	0.09	0.51	0.05	4.90	0.49
484	186.83	0.19	4.56	0.09	0.39	0.04	4.17	0.42
485	186.83	0.18	4.90	0.08	0.39	0.04	4.51	0.45
486	186.83	0.16	5.87	0.07	0.42	0.04	5.45	0.54
487	186.83	0.15	4.05	0.07	0.27	0.03	3.78	0.38
488	186.83	0.13	3.10	0.06	0.19	0.02	2.91	0.29
489	186.83	0.12	3.05	0.05	0.17	0.02	2.88	0.29
490	186.83	0.11	5.08	0.05	0.25	0.03	4.83	0.48
491	0.00	0.00			0.00	0.00	3.88	0.39
492	0.00	0.00			0.00	0.00	5.07	0.51
493	0.00	0.00			0.00	0.00	4.57	0.46
494	0.00	0.00			0.00	0.00	3.87	0.39
495	0.00	0.00			0.00	0.00	1.44	0.14
496	0.00	0.00			0.00	0.00	3.66	0.37
497	0.00	0.00			0.00	0.00	4.58	0.46
498	0.00	0.00			0.00	0.00	5.97	0.60
499	0.00	0.00			0.00	0.00	4.55	0.46
500	0.00	0.00	3.39	0.00	0.00	0.00	3.39	0.34
501	0.00	0.00	4.16	0.00	0.00	0.00	4.16	0.42
502	0.00	0.00	2.91	0.03	0.09	0.01	2.82	0.28
503	0.82	0.07	5.12	0.03	0.17	0.02	4.95	0.50
504	2.18	0.08	5.36	0.04	0.19	0.02	5.17	0.52
505	3.54	0.08	5.87	0.04	0.22	0.02	5.65	0.56
506	4.89	0.09	4.94	0.04	0.21	0.02	4.73	0.47
507	6.25	0.10	4.31	0.05	0.20	0.02	4.11	0.41
508	7.61	0.11	4.22	0.05	0.21	0.02	4.01	0.40
509	8.96	0.12	4.91	0.05	0.26	0.03	4.65	0.46
510	10.32	0.13	4.96	0.06	0.29	0.03	4.67	0.47
511	11.68	0.14	6.00	0.06	0.38	0.04	5.62	0.56
512	13.03	0.15	3.93	0.07	0.27	0.03	3.66	0.37
513	14.39	0.17	4.31	0.07	0.32	0.03	3.99	0.40

514	15.75	0.18	4.19	0.08	0.34	0.03	3.85	0.39
515	17.10	0.20	3.51	0.09	0.31	0.03	3.20	0.32
516	18.46	0.21	4.26	0.09	0.40	0.04	3.86	0.39
517	19.82	0.23	3.49	0.10	0.36	0.04	3.13	0.31
518	21.17	0.25	4.96	0.11	0.55	0.06	4.41	0.44
519	22.53	0.28	3.67	0.12	0.44	0.04	3.23	0.32
520	23.88	0.30	4.78	0.13	0.62	0.06	4.16	0.42
521	25.24	0.33	4.28	0.14	0.60	0.06	3.68	0.37
522	26.60	0.36	5.17	0.15	0.79	0.08	4.38	0.44
523	27.95	0.39	4.15	0.17	0.69	0.07	3.46	0.35
524	29.31	0.42	5.35	0.18	0.95	0.10	4.40	0.44
525	30.67	0.46	5.58	0.19	1.07	0.11	4.51	0.45
526	32.02	0.50	5.29	0.21	1.10	0.11	4.19	0.42
527	33.38	0.55	4.22	0.22	0.95	0.09	3.27	0.33
528	34.74	0.60	3.41	0.24	0.82	0.08	2.59	0.26
529	36.09	0.65	4.63	0.26	1.20	0.12	3.43	0.34
530	37.45	0.71	5.36	0.28	1.50	0.15	3.86	0.39
531	38.81	0.77	3.81	0.30	1.14	0.11	2.67	0.27
532	40.16	0.84	5.14	0.32	1.65	0.17	3.49	0.35
533	41.52	0.91	4.01	0.34	1.38	0.14	2.63	0.26
534	42.88	0.99	3.06	0.37	1.13	0.11	1.93	0.19
535	44.23	1.08	4.91	0.39	1.93	0.19	2.98	0.30
536	45.59	1.18	5.11	0.42	2.15	0.21	2.96	0.30
537	46.95	1.28	0.33	0.45	0.15	0.01	0.18	0.02
538	48.30	1.40	5.35	0.48	2.55	0.25	2.80	0.28
539	49.66	1.52	5.59	0.51	2.82	0.28	2.77	0.28
540	51.01	1.65	1.53	0.54	0.82	0.08	0.71	0.07
541	52.37	1.80	5.08	0.57	2.87	0.29	2.21	0.22
542	53.73	1.96	5.10	0.60	3.04	0.30	2.06	0.21
543	55.08	2.14	4.94	0.63	3.10	0.31	1.84	0.18
544	56.44	2.32	5.33	0.66	3.51	0.35	1.82	0.18
545	57.80	2.53	4.73	0.69	3.26	0.33	1.47	0.15
546	59.15	2.76	5.78	0.72	4.17	0.42	1.61	0.16
547	60.51	3.00	5.53	0.75	4.15	0.42	1.38	0.14
548	61.87	3.00	5.61	0.75	4.21	0.42	1.40	0.14
549	63.22	3.00	4.69	0.75	3.52	0.35	1.17	0.12
550	64.58	3.00	2.99	0.75	2.24	0.22	0.75	0.07
551	65.94	3.00	5.65	0.75	4.24	0.42	1.41	0.14
552	67.29	3.00	3.37	0.75	2.53	0.25	0.84	0.08
553	68.65	3.00	2.32	0.75	1.74	0.17	0.58	0.06
554	70.01	3.00	3.89	0.75	2.92	0.29	0.97	0.10
555	70.10	3.00	5.15	0.75	3.87	0.39	1.28	0.13
556	70.10	3.00	5.34	0.75	4.01	0.40	1.33	0.13
557	70.10	3.00	1.88	0.75	1.41	0.14	0.47	0.05
558	70.10	3.00	3.45	0.75	2.59	0.26	0.86	0.09
559	70.10	3.00	3.99	0.75	3.00	0.30	0.99	0.10
560	70.10	3.00	4.04	0.75	3.03	0.30	1.01	0.10
561	70.10	3.00	4.68	0.75	3.51	0.35	1.17	0.12

562	70.10	3.00	3.36	0.75	2.52	0.25	0.84	0.08
563	70.10	3.00	4.81	0.75	3.61	0.36	1.20	0.12
564	70.10	3.00	2.95	0.75	2.21	0.22	0.74	0.07
565	70.10	3.00	3.70	0.75	2.78	0.28	0.92	0.09
566	70.10	3.00	5.19	0.75	3.90	0.39	1.29	0.13
567	70.10	2.79	5.16	0.72	3.74	0.37	1.42	0.14
568	70.10	2.53	4.91	0.69	3.39	0.34	1.52	0.15
569	70.10	2.30	2.97	0.66	1.95	0.19	1.02	0.10
570	70.10	2.09	3.30	0.62	2.05	0.20	1.25	0.13
571	70.10	1.90	3.98	0.59	2.33	0.23	1.65	0.16
572	70.10	1.73	4.63	0.55	2.55	0.26	2.08	0.21
573	70.10	1.58	4.94	0.52	2.56	0.26	2.38	0.24
574	70.10	1.43	4.00	0.48	1.94	0.19	2.06	0.21
575	70.10	1.30	4.87	0.45	2.21	0.22	2.66	0.27
576	70.10	1.18	4.75	0.42	2.00	0.20	2.75	0.27
577	70.10	1.08	4.77	0.39	1.87	0.19	2.90	0.29
578	70.10	0.98	5.20	0.36	1.90	0.19	3.30	0.33
579	70.10	0.89	4.79	0.34	1.62	0.16	3.17	0.32
580	70.10	0.81	4.68	0.31	1.46	0.15	3.22	0.32
581	70.10	0.74	4.40	0.29	1.27	0.13	3.13	0.31
582	70.10	0.67	2.49	0.27	0.66	0.07	1.83	0.18
583	70.10	0.61	5.24	0.25	1.29	0.13	3.95	0.40
584	70.10	0.55	5.01	0.23	1.13	0.11	3.88	0.39
585	70.10	0.50	4.50	0.21	0.94	0.09	3.56	0.36
586	70.10	0.46	4.00	0.19	0.76	0.08	3.24	0.32
587	70.10	0.42	3.68	0.18	0.65	0.06	3.03	0.30
588	70.10	0.38	4.06	0.16	0.65	0.07	3.41	0.34
589	70.10	0.34	4.34	0.15	0.64	0.06	3.70	0.37
590	70.10	0.31	4.34	0.13	0.59	0.06	3.75	0.38
591	70.10	0.28	4.83	0.12	0.60	0.06	4.23	0.42
592	70.10	0.26	4.92	0.11	0.56	0.06	4.36	0.44

Table C15. Free-draining lysimeter flux, 15 cm

	C1			T1	
	dur	vol corr		dur	vol corr
	min	ml		min	ml
		0	18-May-05	110	784.155
		0	18-May-05	70	147.1615
		0	23-May-05	230	1024.698
		0	26-May-05	70	409.977
18-Jun-05	170	2029.234			0
21-Jun-05	30	159.583			0
20-Jun-05	90	254.65			0
		0	27-Jun-05	10	124.889
30-Jun-05	160	1083.091			0

6-Jul-05	220	2115.247	6-Jul-05	150	650.52
11-Jul-05	20	136.948			0
16-Jul-05	30	372.352	16-Jul-05	180	2744.135
18-Jul-05	70	576.067			0
20-Jul-05	70	422.149			0
23-Jul-05	70	657.553			
3-Aug-05	30	146.002	3-Aug-05	10	120.4345
15-Aug-05	240	1807.411	15-Aug-05	80	472.34
18-Aug-05	80	612.283	18-Aug-05	10	133.798
19-Aug-05	10	132.421	19-Aug-05	30	191.7065
22-Aug-05	160	2463.826	22-Aug-05	120	1581.5105
24-Aug-05	30	345.19	24-Aug-05	60	320.887
2-Sep-05	30	182.218			0
11-Sep-05	130	920.119			0
22-Sep-05	40	2812.405	22-Sep-05	160	5399.017
1-Oct-05	140	3056.863	1-Oct-05	140	1278.6045
8-Oct-05	120	1327.549	8-Oct-05	60	320.887
8-Oct-05	30	1920.586	8-Oct-05	70	2663.954
		0	9-Oct-05	40	258.524
14-Oct-05	30	250.123			0
20-Oct-05	30	173.164			0
20-Oct-05	70	213.907			0
25-Oct-05	220	1499.575	25-Oct-05	240	2387.775
1-Nov-05	90	1015.186			0
1-Nov-05	90	471.946			0
8-Nov-05	30	141.475	8-Nov-05	40	133.798
		0	12-Nov-05	20	142.707
		0	27-Mar-06	50	650.52
23-Apr-06	60	245.596	23-Apr-06	90	378.7955
23-Apr-06	60	209.38	23-Apr-06	60	343.1595
26-Apr-06	80	1526.737			0
3-May-06	170	2196.733			0
6-May-06	20	508.162			0
7-May-06	290	2681.122	7-May-06	100	280.7965
24-May-06	60	453.838	24-May-06	20	133.798
24-May-06	80	367.825	24-May-06	90	548.0665
28-May-06	60	173.164	28-May-06	90	387.7045
27-Jun-06	60	209.38			0
9-Jul-06	280	1467.886			0
23-Jul-06	110	1504.102			0
24-Jul-06	50	241.069			0
8-Aug-06	20	186.745			0
11-Aug-06	60	897.484			0
16-Aug-06	110	2110.72	16-Aug-06	120	3973.577
17-Aug-06	120	924.646			0
24-Aug-06	150	3242.47	24-Aug-06	130	3648.3985
27-Aug-06	140	2509.096	27-Aug-06	90	971.244

23-Sep-06	70	612.283	23-Sep-06	40	156.0705
29-Sep-06	40	634.918			0
1-Oct-06	60	643.972			0
		0	14-Oct-06	70	169.434
9-Nov-06	230	1105.726	9-Nov-06	220	516.885
15-Nov-06	110	186.745	15-Nov-06	270	365.432
7-Dec-06	70	1110.253	7-Dec-06	40	254.0695

Free-draining lysimeter flux, 30 cm

C3			T3		
	dur	vol corr		dur	vol corr
	min	ml		min	ml
			9-Jun	70	190.7425
			27-Jun	10	-10.1805
6-Jul	20	13.7355			
11-Jul	10	7.606			
16-Jul	190	1711.607	16-Jul	140	687.1405
22-Sep	170	3378.831	22-Sep	200	5603.8445
1-Oct	140	1772.902			
9-Oct	430	12039.815	9-Oct	60	2188.1535
			9-Oct	200	1467.1945
25-Oct	70	19.865			
			23-Apr	120	397.575
			23-Apr	120	486.2175
			3-May	230	787.602
			7-May	180	503.946
			7-May	30	-16.09
			10-May	120	190.7425
12-Jul	70	216.009			
16-Aug	50	448.93	16-Aug	250	2684.5515
			17-Aug	130	344.3895
24-Aug	150	3728.2125	24-Aug	110	3919.637
27-Aug	140	1754.5135	27-Aug	30	232.109
			11-Oct	590	799.421
			14-Oct	350	184.833
			14-Oct	250	722.5975
9-Nov	230	320.2105			
7-Dec	90	2441.0175			

Free-draining lysimeter flux, 60 cm

C3			T3		
	dur	vol corr		dur	vol corr
	min	ml		min	ml
18-May-05	90	1583.931	18-May	70	2724.546
18-Jun-05	180	3675.0585	23-May	210	2652.7295
29-Jun-05	70	164.499	26-May	140	1093.889

6-Jul-05	170	2982.2405	30-May	150	641.8675
11-Jul-05	10	46.213	18-Jun	120	168.7235
16-Jul-05	90	3193.4655	27-Jun	20	84.2335
16-Jul-05	50	134.9275	6-Jul	160	2635.8315
15-Aug	130	1368.4815	11-Jul	10	71.56
22-Aug	150	2606.26	16-Jul	80	2669.6275
24-Aug	100	692.5615	15-Aug	250	2297.8715
22-Sep	270	11570.649	22-Aug	200	1490.992
1-Oct	60	3024.4855	24-Aug	90	130.703
8-Oct	160	2686.5255	22-Sep	50	2542.8925
8-Oct	20	430.6425	1-Oct	240	2107.769
9-Oct	80	333.479	8-Oct	120	236.3155
25-Oct	90	3185.0165	8-Oct	60	1110.787
3-May	230	536.255	9-Oct	150	646.092
24-May	70	194.0705	25-Oct	110	2238.7285
27-May	50	84.2335	23-Apr	240	2171.1365
27-May	70	58.8865	23-Apr	230	1296.665
9-Jul	90	287.0095	25-Apr	130	485.561
12-Jul	20	329.2545	26-Apr	140	308.132
23-Jul	110	679.888	26-Apr	210	206.744
11-Aug	80	405.2955	3-May	330	2479.525
16-Aug	170	3755.324	7-May	430	2179.5855
17-Aug	100	392.622	10-May	130	198.295
24-Aug	210	4203.121	24-May	80	96.907
27-Aug	170	2652.7295	24-May	200	1571.2575
9-Nov	340	1668.421	28-May	190	971.3785
15-Nov	140	118.0295	27-Jun	170	1503.6655
7-Dec	110	793.9495	27-Jun	270	227.8665
			3-Jul	150	396.8465
			9-Jul	160	510.908
			10-Jul	30	54.662
			12-Jul	170	2027.5035
			16-Aug	230	2154.2385
			16-Aug	280	755.929
			17-Aug	200	679.888
			24-Aug	230	139.152
			27-Aug	210	692.5615
			31-Aug	120	244.7645
			11-Oct	430	329.2545
			13-Oct	10	50.4375
			14-Oct	530	937.5825
			14-Oct	390	1904.993
			9-Nov	150	101.1315
			15-Nov	370	439.0915
			7-Dec	20	46.213

Table C16. Soil texture

		depth	%sand	%silt	%sand
<i>1</i>	<i>C</i>	15	20.41	37.81	41.78
<i>2</i>	<i>C</i>	15	29.04	27.77	43.19
<i>3</i>	<i>C</i>	15	26.83	28.91	44.26
<i>1</i>	<i>T</i>	15	27.80	29.03	43.17
<i>2</i>	<i>T</i>	15	25.99	33.67	40.33
<i>3</i>	<i>T</i>	15	25.92	29.91	44.18
<i>1</i>	<i>C</i>	30	21.25	31.38	47.37
<i>2</i>	<i>C</i>	30	24.17	28.96	46.87
<i>3</i>	<i>C</i>	30	22.89	30.23	46.88
<i>1</i>	<i>T</i>	30	25.59	28.90	45.51
<i>2</i>	<i>T</i>	30	22.18	29.88	47.94
<i>3</i>	<i>T</i>	30	24.83	28.57	46.60
<i>1</i>	<i>C</i>	60	20.39	31.48	48.13
<i>2</i>	<i>C</i>	60	21.81	31.42	46.76
<i>3</i>	<i>C</i>	60	20.50	31.44	48.06
<i>1</i>	<i>T</i>	60	22.97	30.20	46.83
<i>2</i>	<i>T</i>	60	23.46	28.61	47.93
<i>3</i>	<i>T</i>	60	22.27	31.11	46.62
<i>1</i>	<i>C</i>	120	17.79	31.51	50.70
<i>2</i>	<i>C</i>	120	20.50	28.91	50.59
<i>3</i>	<i>C</i>	120	16.52	28.97	54.50
<i>1</i>	<i>T</i>	120	20.44	27.67	51.89
<i>2</i>	<i>T</i>	120	19.58	28.64	51.78
<i>3</i>	<i>T</i>	120	20.85	28.64	50.51
<i>1</i>	<i>C</i>	200	17.87	32.74	49.38
<i>2</i>	<i>C</i>	200	18.04	31.41	50.55
<i>3</i>	<i>C</i>	200	19.17	28.93	51.89
<i>1</i>	<i>T</i>	200	18.98	27.74	53.29
<i>2</i>	<i>T</i>	200	18.21	29.94	51.84
<i>3</i>	<i>T</i>	200	18.92	27.60	53.48

Figure C3. Soil texture graph

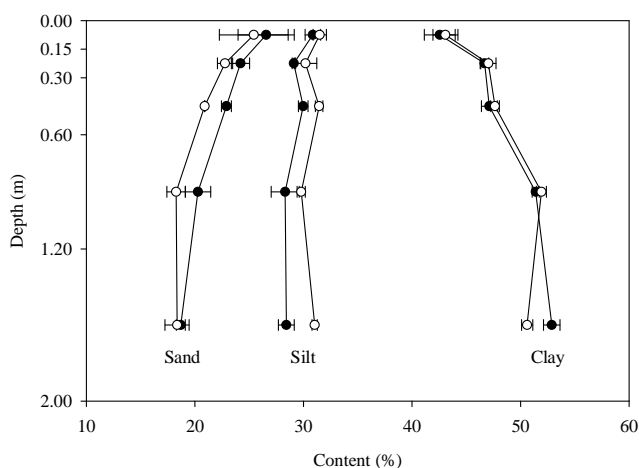


Table C17. Data for Table 4.1.

year	dry weight (mg)	Micro g C	mg C/g char	% C	Delta PDB
2004	2.29	1512.16	660.33	66.03	-28.99
2004	1.09	843.19	773.57	77.36	-28.73
2006	2.06	1278.21	620.49	62.05	-28.12
2006	1.46	949.29	650.20	65.02	-28.28
2002	2.16	1484.26	687.16	68.72	-28.03
2002	1.61	1240.87	770.73	77.07	-27.85

	Micro g N	mg N/g char	% N	Delta Air
2004	6.35	2.77	0.28	1.34
2004	2.62	2.40	0.24	-3.14
2006	6.93	3.36	0.34	3.48
2006	4.55	3.11	0.31	0.49
2002	23.35	10.81	1.08	3.55
2002	7.07	4.39	0.44	-1.87

year	amt char	chart reading	ug NH4 / ml	ug/g char	mmolc/kg char
2	1.021	0.083	20.28	1985.88	110.33
2	1.01	0.084	20.62	2041.65	113.43
4	1.018	0.16	46.83	4599.96	255.55
4	1.024	0.139	39.59	3865.84	214.77
6	1.05	0.173	51.31	4886.70	271.48
6	1.053	0.148	42.69	4054.10	225.23

sample	mg char	micro g H	Delta SMOW	mg H/g char
2002	0.5	6.244	-54.619	12.488
2002	0.53	6.604	-53.560	12.460
2004	0.47	6.433	-49.823	13.688
2004	0.55	7.550	-37.136	13.727
2006	0.49	10.199	-51.461	20.814
2006	0.43	8.117	-58.851	18.878

	Ca	P	Mg	K	Na	Fe
char	ug/g char	ug/g char	ug/g char	ug/g char	ug/g char	ug/g char
2002	444.55	28.15	48.68	524.92	8.66	4.37
2002	216.85	31.36	49.08	402.63	0.00	2.84
2004	2888.30	252.57	287.58	3277.92	2.30	103.48
2004	2962.98	265.77	294.34	3330.80	5.67	110.24
2006	5552.35	109.36	177.46	2474.79	57.98	74.94
2006	7318.35	123.16	191.48	2748.51	67.06	72.26

	Zn	Cu	Mn	Mo	B	Al	S
	ug/g char	ug/g char	ug/g char	ug/g char	ug/g char	ug/g char	ug/g char
2002	0.9572	0.0097	15.1654	0.0000	0.0000	9.8346	42.1177
2002	0.6714	0.0432	36.0614	0.0000	0.0000	9.1208	23.9070
2004	4.3083	0.1559	22.5215	0.0239	0.0000	54.7880	35.8785
2004	4.5005	0.1740	22.9488	0.0474	0.0000	10.4837	37.1414
2006	6.0480	0.1899	8.9930	0.0000	0.0000	0.0000	35.6051
2006	6.5860	0.1713	10.3528	0.0000	0.0000	9.9198	40.5712

pH			amt used	
	KCl	H2O	KCl	H2O
2002	7.17	9.2	1.014	1.009
38322	8.92	10.14	1.007	1.019
38808	8.74	10.07	1.028	1.011

		Sr	Sr
	g	µg/ml	ug/g char
2002	3.2639	0.29	2.693
2002	2.9916	0.16	1.643
2002	2.9973	0.34	3.361

Table C18. Moisture retention curve data

			0 cms	75 cms	15000 cms
rep	trt	depth			

1	C	15	48.4939	30.9820	18.7984
2	C	15	50.0101	32.3597	23.5038
3	C	15	49.5580	32.4434	24.8161
1	T	15	49.3884	30.8756	20.2308
2	T	15	48.1320	31.9269	23.3610
3	T	15	44.8128	32.1675	24.2770
1	C	30	48.5003	30.7586	20.1632
2	C	30	52.2200	34.1422	27.0432
3	C	30	47.0807	32.7785	25.2799
1	T	30	45.7374	32.6593	21.5291
2	T	30	45.9521	29.4013	20.9363
3	T	30	46.9819	32.1181	23.3600
1	C	0-5	47.3374	32.3189	23.0829
2	C	0-5	48.3242	36.2448	29.2810
3	C	0-5	48.5239	35.4856	29.1500
1	T	0-5	49.1714	35.5156	25.5463
2	T	0-5	43.1129	35.3095	27.9484
3	T	0-5	49.5838	38.0638	34.8627

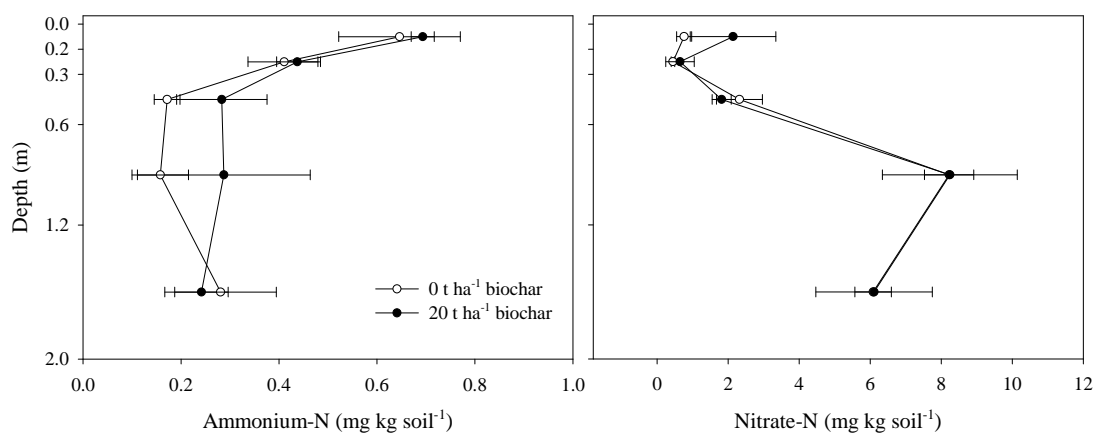


Figure C4. Inorganic nitrogen profile measured before maize seeding in 2006. Bars represent standard errors ($n=3$), and dots are placed in the middle of the depth increment they represent.

Table C19. Data for Figure C4.

	ammonium			
depth	C	T	err C	err T
-7.5	0.646	0.693	0.124	0.023
-22.5	0.411	0.437	0.074	0.042
-45	0.172	0.283	0.026	0.092
-90	0.158	0.287	0.058	0.176
-160	0.281	0.242	0.114	0.055
	nitrate			
depth	C	T	err C	err T
-7.5	0.757	2.136	0.212	1.204
-22.5	0.444	0.643	0.051	0.400
-45	2.317	1.815	0.646	0.268
-90	8.224	8.242	0.693	1.901
-160	6.082	6.110	0.512	1.638

Table C19A. Data for Fig. 4.2.

Disk infiltrometer				
day	0	0err	20	20 err
377	0.000468	0.000089	0.000425	0.000102
505	0.000210	0.000029	0.000185	0.000049
595	0.000648	0.000122	0.000417	0.000079
Ring infiltrometer		infiltr	err	
	0	0.0015667	0.0008021	
	8	0.0019667	0.0006489	
	20	0.0028333	0.0014746	

Table C20. Characteristics of flux through funnels inserted at various depths in a Colombian savanna Oxisol, during the rainy seasons of years three and four after the application of 0 or 20 t ha⁻¹ biochar.

	Depth	Frequency of flux	Frequency of flux initiation*	Frequency of single funnel flux	Cumulative amount of water collected	Mean duration of flux
	m	% of events	% of events	% of events	mm	min
Control	0.15	72	47	24	1353	91
	0.3	19	2	0	550	118

	0.6	39	9	0	1449	121
	1.2	8	0	0	124	115
Biochar	0.15	44	36	3	992	96
	0.3	21	9	1	466	179
	0.6	60	16	10	1717	181
	1.2	6	0	0	24	83

*During multi-funnel flux events. The sum of the column is > 100, because on several occasions flux was initiated in various funnels at the same time.

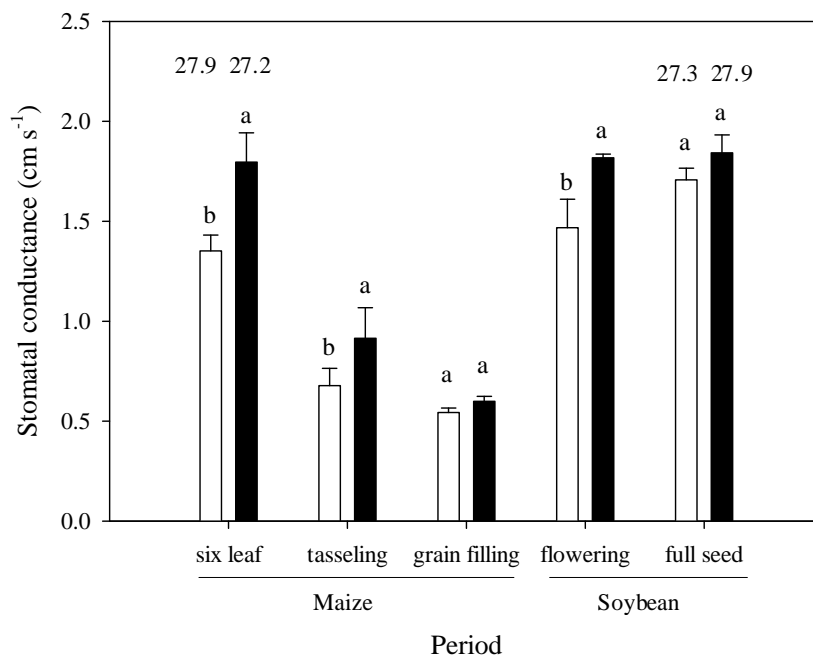


Figure C5. Stomatal conductance of maize and soybean crops grown in 2006 on a Colombian savanna Oxisol that received 0 (white bars) or 20 t ha⁻¹ biochar (black bars) in 2002. Error bars represent standard errors ($n=36$), and different letters indicate significant differences ($p<0.05$). Numbers above bars show the surface soil's percent volumetric moisture content at the time of measurement.

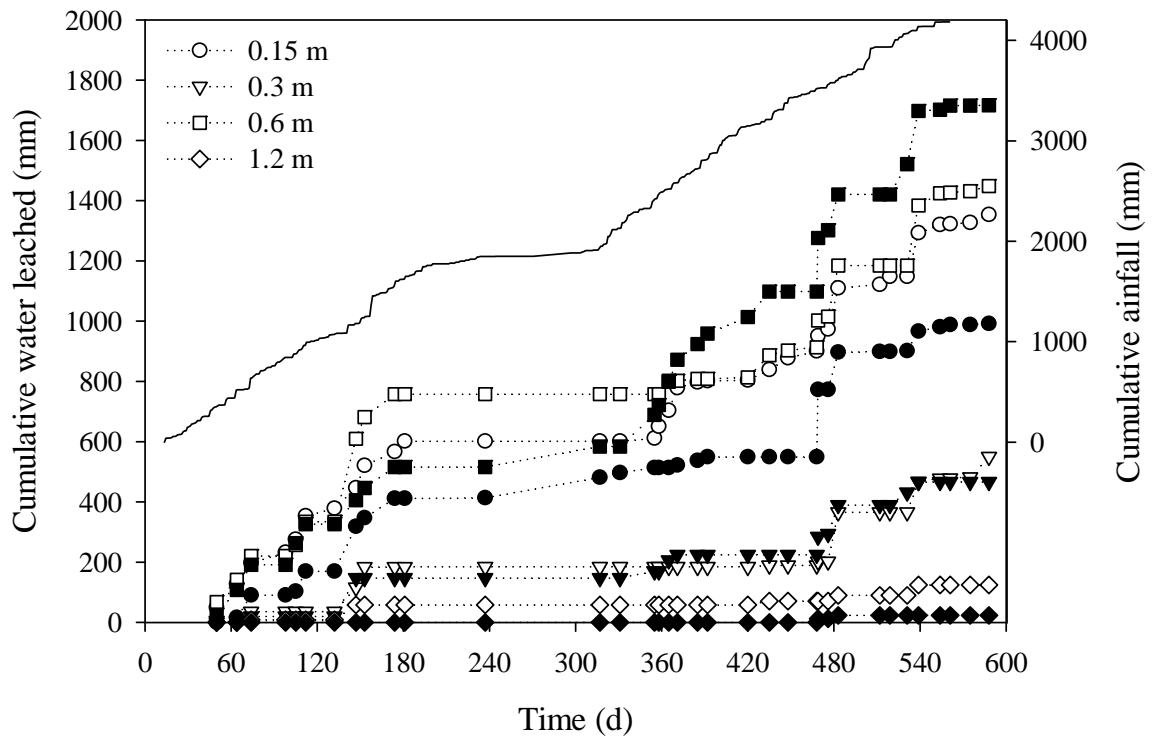


Figure C6. Water leached by saturated flux and collected at four depths, during the rainy seasons of years three and four after the application of 0 (open symbols) or 20 t ha⁻¹ biochar (filled symbols) to a Colombian savanna Oxisol. Cumulative rainfall is shown with a line.

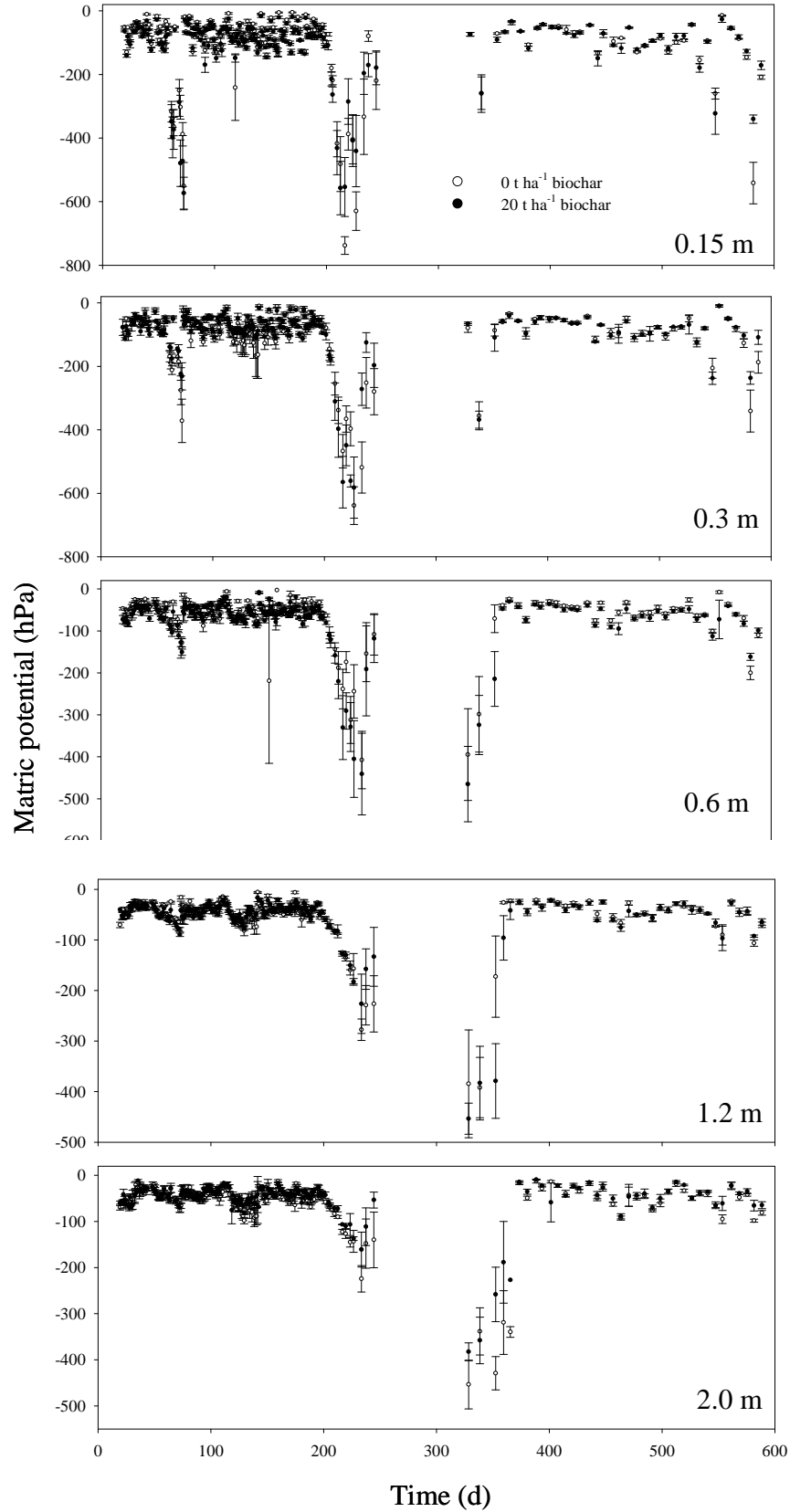


Figure C7. Matric potential measured from replicated, hand-read tensiometers inserted in a Colombian savanna Oxisol over the rainy seasons of 2005 and 2006. Error bars represent standard errors ($n=3$).

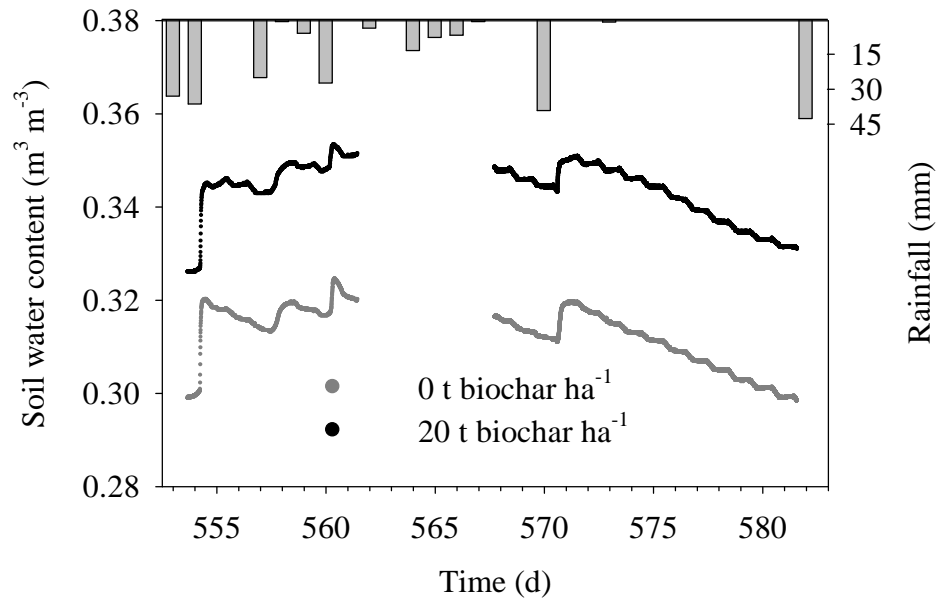
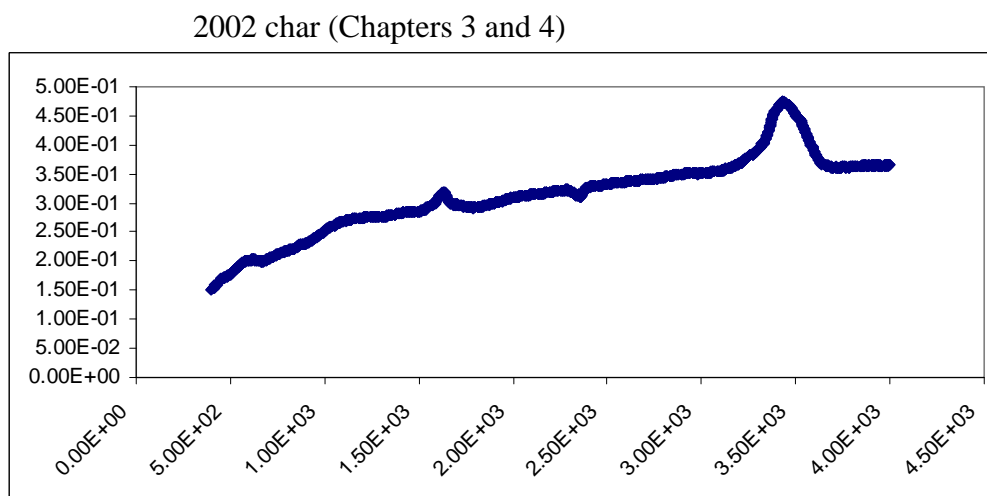
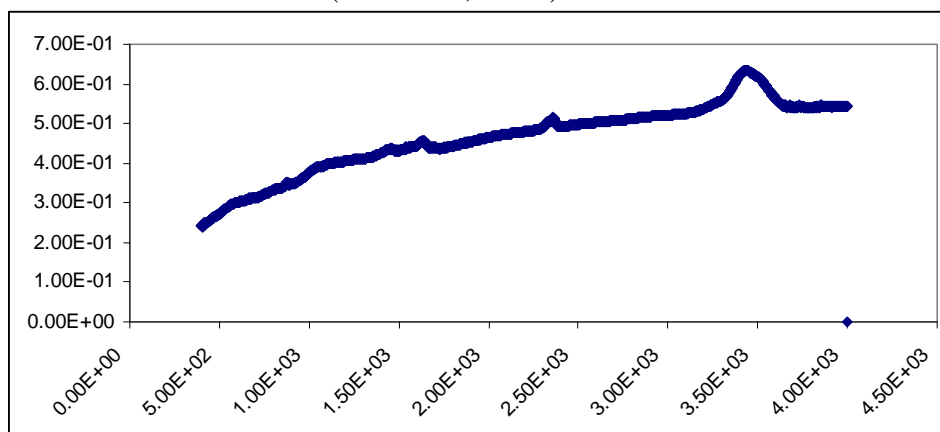


Figure C8. Rainfall and soil moisture at 0.3 m, four years after application of 0 or 20 t ha^{-1} biochar to a Colombian savanna Oxisol.



2004 char (Biochar 1, Ch. 2)



2006 char (Biochar 2, Ch.2)

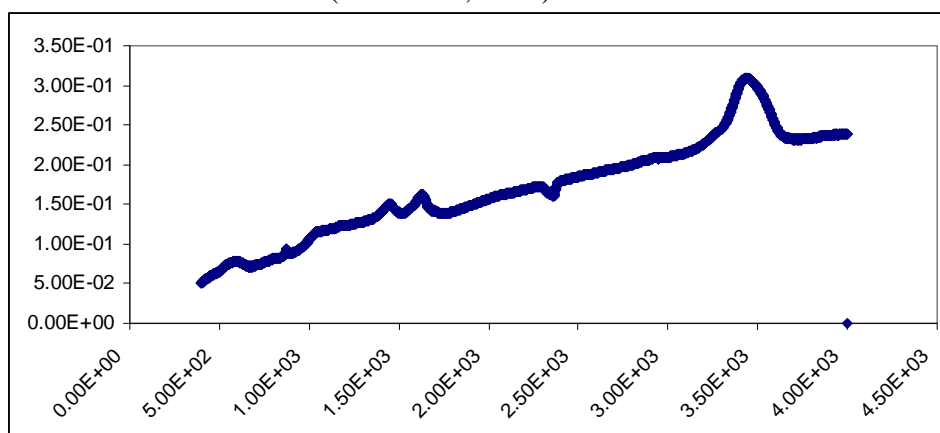


Figure C9. Biochar FTIR

Table C21. Biochar FTIR data

2002 char (Chapters 3 and 4)

3.99E+02	1.51E-01	1.30E+03	2.76E-01	2.20E+03	3.19E-01	3.10E+03	3.55E-01
4.01E+02	1.52E-01	1.30E+03	2.76E-01	2.20E+03	3.19E-01	3.10E+03	3.55E-01
4.03E+02	1.53E-01	1.30E+03	2.76E-01	2.20E+03	3.19E-01	3.10E+03	3.56E-01
4.05E+02	1.53E-01	1.30E+03	2.76E-01	2.20E+03	3.19E-01	3.10E+03	3.56E-01
4.07E+02	1.53E-01	1.31E+03	2.76E-01	2.20E+03	3.19E-01	3.10E+03	3.56E-01
4.09E+02	1.54E-01	1.31E+03	2.77E-01	2.21E+03	3.19E-01	3.10E+03	3.56E-01
4.11E+02	1.55E-01	1.31E+03	2.77E-01	2.21E+03	3.19E-01	3.11E+03	3.56E-01
4.13E+02	1.55E-01	1.31E+03	2.77E-01	2.21E+03	3.19E-01	3.11E+03	3.57E-01
4.15E+02	1.56E-01	1.31E+03	2.77E-01	2.21E+03	3.19E-01	3.11E+03	3.57E-01
4.17E+02	1.57E-01	1.32E+03	2.77E-01	2.21E+03	3.20E-01	3.11E+03	3.57E-01
4.18E+02	1.58E-01	1.32E+03	2.77E-01	2.22E+03	3.20E-01	3.11E+03	3.56E-01
4.20E+02	1.58E-01	1.32E+03	2.77E-01	2.22E+03	3.20E-01	3.12E+03	3.56E-01
4.22E+02	1.59E-01	1.32E+03	2.77E-01	2.22E+03	3.20E-01	3.12E+03	3.57E-01

5.15E+02	1.83E-01	1.41E+03	2.83E-01	2.31E+03	3.19E-01	3.21E+03	3.70E-01
5.17E+02	1.83E-01	1.42E+03	2.83E-01	2.31E+03	3.19E-01	3.21E+03	3.71E-01
5.19E+02	1.84E-01	1.42E+03	2.84E-01	2.32E+03	3.19E-01	3.21E+03	3.71E-01
5.21E+02	1.85E-01	1.42E+03	2.84E-01	2.32E+03	3.18E-01	3.22E+03	3.72E-01
5.23E+02	1.85E-01	1.42E+03	2.84E-01	2.32E+03	3.17E-01	3.22E+03	3.72E-01
5.25E+02	1.86E-01	1.42E+03	2.84E-01	2.32E+03	3.16E-01	3.22E+03	3.73E-01
5.26E+02	1.86E-01	1.43E+03	2.84E-01	2.32E+03	3.16E-01	3.22E+03	3.73E-01
5.28E+02	1.87E-01	1.43E+03	2.84E-01	2.33E+03	3.15E-01	3.22E+03	3.73E-01
5.30E+02	1.87E-01	1.43E+03	2.84E-01	2.33E+03	3.15E-01	3.23E+03	3.74E-01
5.32E+02	1.88E-01	1.43E+03	2.84E-01	2.33E+03	3.14E-01	3.23E+03	3.75E-01
5.34E+02	1.88E-01	1.43E+03	2.84E-01	2.33E+03	3.13E-01	3.23E+03	3.75E-01
5.36E+02	1.89E-01	1.43E+03	2.84E-01	2.33E+03	3.13E-01	3.23E+03	3.75E-01
5.38E+02	1.89E-01	1.44E+03	2.84E-01	2.34E+03	3.13E-01	3.23E+03	3.76E-01
5.40E+02	1.90E-01	1.44E+03	2.84E-01	2.34E+03	3.13E-01	3.24E+03	3.76E-01
5.42E+02	1.90E-01	1.44E+03	2.84E-01	2.34E+03	3.13E-01	3.24E+03	3.77E-01
5.44E+02	1.91E-01	1.44E+03	2.84E-01	2.34E+03	3.12E-01	3.24E+03	3.77E-01
5.46E+02	1.92E-01	1.44E+03	2.84E-01	2.34E+03	3.12E-01	3.24E+03	3.78E-01
5.48E+02	1.92E-01	1.45E+03	2.84E-01	2.35E+03	3.13E-01	3.24E+03	3.78E-01
5.50E+02	1.92E-01	1.45E+03	2.84E-01	2.35E+03	3.15E-01	3.25E+03	3.79E-01
5.52E+02	1.93E-01	1.45E+03	2.84E-01	2.35E+03	3.16E-01	3.25E+03	3.79E-01
5.53E+02	1.94E-01	1.45E+03	2.84E-01	2.35E+03	3.15E-01	3.25E+03	3.80E-01
5.55E+02	1.94E-01	1.45E+03	2.85E-01	2.35E+03	3.13E-01	3.25E+03	3.81E-01
5.57E+02	1.95E-01	1.46E+03	2.85E-01	2.35E+03	3.12E-01	3.25E+03	3.81E-01
5.59E+02	1.95E-01	1.46E+03	2.85E-01	2.36E+03	3.11E-01	3.26E+03	3.82E-01
5.61E+02	1.96E-01	1.46E+03	2.84E-01	2.36E+03	3.11E-01	3.26E+03	3.82E-01
5.63E+02	1.96E-01	1.46E+03	2.84E-01	2.36E+03	3.10E-01	3.26E+03	3.82E-01
5.65E+02	1.97E-01	1.46E+03	2.84E-01	2.36E+03	3.10E-01	3.26E+03	3.83E-01
5.67E+02	1.98E-01	1.47E+03	2.84E-01	2.36E+03	3.11E-01	3.26E+03	3.83E-01
5.69E+02	1.98E-01	1.47E+03	2.84E-01	2.37E+03	3.13E-01	3.26E+03	3.83E-01
5.71E+02	1.98E-01	1.47E+03	2.84E-01	2.37E+03	3.15E-01	3.27E+03	3.84E-01
5.73E+02	1.99E-01	1.47E+03	2.84E-01	2.37E+03	3.16E-01	3.27E+03	3.84E-01
5.75E+02	1.99E-01	1.47E+03	2.84E-01	2.37E+03	3.18E-01	3.27E+03	3.84E-01
5.77E+02	2.00E-01	1.48E+03	2.84E-01	2.37E+03	3.19E-01	3.27E+03	3.85E-01
5.79E+02	2.00E-01	1.48E+03	2.84E-01	2.38E+03	3.21E-01	3.27E+03	3.85E-01
5.80E+02	2.00E-01	1.48E+03	2.84E-01	2.38E+03	3.22E-01	3.28E+03	3.85E-01
5.82E+02	2.00E-01	1.48E+03	2.84E-01	2.38E+03	3.24E-01	3.28E+03	3.86E-01
5.84E+02	2.00E-01	1.48E+03	2.84E-01	2.38E+03	3.25E-01	3.28E+03	3.86E-01
5.86E+02	2.01E-01	1.48E+03	2.84E-01	2.38E+03	3.26E-01	3.28E+03	3.87E-01
5.88E+02	2.01E-01	1.49E+03	2.84E-01	2.39E+03	3.26E-01	3.28E+03	3.87E-01
5.90E+02	2.02E-01	1.49E+03	2.85E-01	2.39E+03	3.27E-01	3.29E+03	3.87E-01
5.92E+02	2.02E-01	1.49E+03	2.85E-01	2.39E+03	3.27E-01	3.29E+03	3.88E-01
5.94E+02	2.02E-01	1.49E+03	2.84E-01	2.39E+03	3.27E-01	3.29E+03	3.88E-01
5.96E+02	2.02E-01	1.49E+03	2.84E-01	2.39E+03	3.27E-01	3.29E+03	3.89E-01
5.98E+02	2.02E-01	1.50E+03	2.85E-01	2.40E+03	3.27E-01	3.29E+03	3.89E-01
6.00E+02	2.02E-01	1.50E+03	2.85E-01	2.40E+03	3.28E-01	3.30E+03	3.90E-01
6.02E+02	2.02E-01	1.50E+03	2.85E-01	2.40E+03	3.28E-01	3.30E+03	3.90E-01
6.04E+02	2.02E-01	1.50E+03	2.85E-01	2.40E+03	3.28E-01	3.30E+03	3.91E-01

6.06E+02	2.02E-01	1.50E+03	2.86E-01	2.40E+03	3.28E-01	3.30E+03	3.92E-01
6.07E+02	2.02E-01	1.51E+03	2.87E-01	2.40E+03	3.28E-01	3.30E+03	3.92E-01
6.09E+02	2.02E-01	1.51E+03	2.87E-01	2.41E+03	3.28E-01	3.31E+03	3.93E-01
6.11E+02	2.02E-01	1.51E+03	2.87E-01	2.41E+03	3.28E-01	3.31E+03	3.93E-01
6.13E+02	2.02E-01	1.51E+03	2.86E-01	2.41E+03	3.29E-01	3.31E+03	3.94E-01
6.15E+02	2.03E-01	1.51E+03	2.87E-01	2.41E+03	3.29E-01	3.31E+03	3.95E-01
6.17E+02	2.03E-01	1.52E+03	2.87E-01	2.41E+03	3.29E-01	3.31E+03	3.96E-01
6.19E+02	2.03E-01	1.52E+03	2.87E-01	2.42E+03	3.29E-01	3.32E+03	3.97E-01
6.21E+02	2.03E-01	1.52E+03	2.88E-01	2.42E+03	3.29E-01	3.32E+03	3.98E-01
6.23E+02	2.03E-01	1.52E+03	2.88E-01	2.42E+03	3.29E-01	3.32E+03	3.99E-01
6.25E+02	2.03E-01	1.52E+03	2.88E-01	2.42E+03	3.29E-01	3.32E+03	4.00E-01
6.27E+02	2.03E-01	1.53E+03	2.88E-01	2.42E+03	3.29E-01	3.32E+03	4.01E-01
6.29E+02	2.02E-01	1.53E+03	2.88E-01	2.43E+03	3.29E-01	3.32E+03	4.02E-01
6.31E+02	2.02E-01	1.53E+03	2.88E-01	2.43E+03	3.29E-01	3.33E+03	4.03E-01
6.33E+02	2.02E-01	1.53E+03	2.88E-01	2.43E+03	3.29E-01	3.33E+03	4.05E-01
6.34E+02	2.02E-01	1.53E+03	2.89E-01	2.43E+03	3.30E-01	3.33E+03	4.06E-01
6.36E+02	2.02E-01	1.54E+03	2.89E-01	2.43E+03	3.30E-01	3.33E+03	4.07E-01
6.38E+02	2.02E-01	1.54E+03	2.90E-01	2.44E+03	3.30E-01	3.33E+03	4.09E-01
6.40E+02	2.01E-01	1.54E+03	2.91E-01	2.44E+03	3.30E-01	3.34E+03	4.10E-01
6.42E+02	2.01E-01	1.54E+03	2.91E-01	2.44E+03	3.30E-01	3.34E+03	4.11E-01
6.44E+02	2.01E-01	1.54E+03	2.92E-01	2.44E+03	3.30E-01	3.34E+03	4.12E-01
6.46E+02	2.00E-01	1.54E+03	2.91E-01	2.44E+03	3.30E-01	3.34E+03	4.14E-01
6.48E+02	2.00E-01	1.55E+03	2.92E-01	2.45E+03	3.30E-01	3.34E+03	4.15E-01
6.50E+02	2.00E-01	1.55E+03	2.92E-01	2.45E+03	3.30E-01	3.35E+03	4.17E-01
6.52E+02	2.00E-01	1.55E+03	2.92E-01	2.45E+03	3.30E-01	3.35E+03	4.19E-01
6.54E+02	2.00E-01	1.55E+03	2.93E-01	2.45E+03	3.30E-01	3.35E+03	4.20E-01
6.56E+02	2.00E-01	1.55E+03	2.94E-01	2.45E+03	3.31E-01	3.35E+03	4.22E-01
6.58E+02	2.00E-01	1.56E+03	2.95E-01	2.45E+03	3.31E-01	3.35E+03	4.23E-01
6.60E+02	2.00E-01	1.56E+03	2.96E-01	2.46E+03	3.31E-01	3.36E+03	4.25E-01
6.61E+02	2.01E-01	1.56E+03	2.96E-01	2.46E+03	3.31E-01	3.36E+03	4.27E-01
6.63E+02	2.01E-01	1.56E+03	2.95E-01	2.46E+03	3.31E-01	3.36E+03	4.29E-01
6.65E+02	2.00E-01	1.56E+03	2.95E-01	2.46E+03	3.31E-01	3.36E+03	4.31E-01
6.67E+02	1.99E-01	1.57E+03	2.96E-01	2.46E+03	3.31E-01	3.36E+03	4.32E-01
6.69E+02	1.98E-01	1.57E+03	2.96E-01	2.47E+03	3.31E-01	3.37E+03	4.34E-01
6.71E+02	1.99E-01	1.57E+03	2.97E-01	2.47E+03	3.31E-01	3.37E+03	4.36E-01
6.73E+02	2.00E-01	1.57E+03	2.97E-01	2.47E+03	3.31E-01	3.37E+03	4.38E-01
6.75E+02	2.01E-01	1.57E+03	2.98E-01	2.47E+03	3.31E-01	3.37E+03	4.39E-01
6.77E+02	2.01E-01	1.58E+03	2.98E-01	2.47E+03	3.31E-01	3.37E+03	4.41E-01
6.79E+02	2.01E-01	1.58E+03	2.98E-01	2.48E+03	3.32E-01	3.37E+03	4.43E-01
6.81E+02	2.01E-01	1.58E+03	2.98E-01	2.48E+03	3.32E-01	3.38E+03	4.45E-01
6.83E+02	2.01E-01	1.58E+03	2.99E-01	2.48E+03	3.32E-01	3.38E+03	4.47E-01
6.85E+02	2.01E-01	1.58E+03	2.99E-01	2.48E+03	3.32E-01	3.38E+03	4.49E-01
6.87E+02	2.02E-01	1.59E+03	3.00E-01	2.48E+03	3.32E-01	3.38E+03	4.50E-01
6.88E+02	2.02E-01	1.59E+03	3.00E-01	2.49E+03	3.32E-01	3.38E+03	4.52E-01
6.90E+02	2.02E-01	1.59E+03	3.01E-01	2.49E+03	3.32E-01	3.39E+03	4.53E-01
6.92E+02	2.03E-01	1.59E+03	3.02E-01	2.49E+03	3.32E-01	3.39E+03	4.55E-01
6.94E+02	2.03E-01	1.59E+03	3.02E-01	2.49E+03	3.32E-01	3.39E+03	4.56E-01

6.96E+02	2.03E-01	1.59E+03	3.03E-01	2.49E+03	3.32E-01	3.39E+03	4.58E-01
6.98E+02	2.04E-01	1.60E+03	3.04E-01	2.50E+03	3.33E-01	3.39E+03	4.59E-01
7.00E+02	2.04E-01	1.60E+03	3.05E-01	2.50E+03	3.33E-01	3.40E+03	4.61E-01
7.02E+02	2.04E-01	1.60E+03	3.06E-01	2.50E+03	3.33E-01	3.40E+03	4.62E-01
7.04E+02	2.05E-01	1.60E+03	3.07E-01	2.50E+03	3.33E-01	3.40E+03	4.63E-01
7.06E+02	2.05E-01	1.60E+03	3.08E-01	2.50E+03	3.33E-01	3.40E+03	4.64E-01
7.08E+02	2.05E-01	1.61E+03	3.09E-01	2.51E+03	3.33E-01	3.40E+03	4.65E-01
7.10E+02	2.06E-01	1.61E+03	3.10E-01	2.51E+03	3.33E-01	3.41E+03	4.66E-01
7.12E+02	2.06E-01	1.61E+03	3.11E-01	2.51E+03	3.33E-01	3.41E+03	4.67E-01
7.14E+02	2.06E-01	1.61E+03	3.12E-01	2.51E+03	3.33E-01	3.41E+03	4.68E-01
7.15E+02	2.06E-01	1.61E+03	3.14E-01	2.51E+03	3.33E-01	3.41E+03	4.69E-01
7.17E+02	2.07E-01	1.62E+03	3.15E-01	2.51E+03	3.33E-01	3.41E+03	4.70E-01
7.19E+02	2.07E-01	1.62E+03	3.16E-01	2.52E+03	3.33E-01	3.42E+03	4.71E-01
7.21E+02	2.07E-01	1.62E+03	3.17E-01	2.52E+03	3.33E-01	3.42E+03	4.71E-01
7.23E+02	2.07E-01	1.62E+03	3.17E-01	2.52E+03	3.34E-01	3.42E+03	4.72E-01
7.25E+02	2.08E-01	1.62E+03	3.18E-01	2.52E+03	3.34E-01	3.42E+03	4.72E-01
7.27E+02	2.08E-01	1.63E+03	3.18E-01	2.52E+03	3.34E-01	3.42E+03	4.73E-01
7.29E+02	2.08E-01	1.63E+03	3.18E-01	2.53E+03	3.34E-01	3.42E+03	4.73E-01
7.31E+02	2.09E-01	1.63E+03	3.19E-01	2.53E+03	3.34E-01	3.43E+03	4.74E-01
7.33E+02	2.09E-01	1.63E+03	3.19E-01	2.53E+03	3.34E-01	3.43E+03	4.74E-01
7.35E+02	2.09E-01	1.63E+03	3.19E-01	2.53E+03	3.34E-01	3.43E+03	4.74E-01
7.37E+02	2.09E-01	1.64E+03	3.18E-01	2.53E+03	3.34E-01	3.43E+03	4.74E-01
7.39E+02	2.10E-01	1.64E+03	3.17E-01	2.54E+03	3.34E-01	3.43E+03	4.74E-01
7.41E+02	2.10E-01	1.64E+03	3.16E-01	2.54E+03	3.34E-01	3.44E+03	4.73E-01
7.42E+02	2.10E-01	1.64E+03	3.15E-01	2.54E+03	3.34E-01	3.44E+03	4.73E-01
7.44E+02	2.11E-01	1.64E+03	3.14E-01	2.54E+03	3.35E-01	3.44E+03	4.73E-01
7.46E+02	2.11E-01	1.64E+03	3.13E-01	2.54E+03	3.35E-01	3.44E+03	4.74E-01
7.48E+02	2.11E-01	1.65E+03	3.12E-01	2.55E+03	3.35E-01	3.44E+03	4.73E-01
7.50E+02	2.12E-01	1.65E+03	3.11E-01	2.55E+03	3.35E-01	3.45E+03	4.73E-01
7.52E+02	2.12E-01	1.65E+03	3.10E-01	2.55E+03	3.35E-01	3.45E+03	4.73E-01
7.54E+02	2.12E-01	1.65E+03	3.09E-01	2.55E+03	3.35E-01	3.45E+03	4.73E-01
7.56E+02	2.12E-01	1.65E+03	3.07E-01	2.55E+03	3.35E-01	3.45E+03	4.72E-01
7.58E+02	2.13E-01	1.66E+03	3.05E-01	2.56E+03	3.35E-01	3.45E+03	4.71E-01
7.60E+02	2.13E-01	1.66E+03	3.04E-01	2.56E+03	3.35E-01	3.46E+03	4.70E-01
7.62E+02	2.13E-01	1.66E+03	3.03E-01	2.56E+03	3.35E-01	3.46E+03	4.69E-01
7.64E+02	2.13E-01	1.66E+03	3.02E-01	2.56E+03	3.35E-01	3.46E+03	4.69E-01
7.66E+02	2.14E-01	1.66E+03	3.01E-01	2.56E+03	3.35E-01	3.46E+03	4.68E-01
7.68E+02	2.14E-01	1.67E+03	3.00E-01	2.56E+03	3.35E-01	3.46E+03	4.67E-01
7.69E+02	2.14E-01	1.67E+03	2.99E-01	2.57E+03	3.35E-01	3.47E+03	4.66E-01
7.71E+02	2.14E-01	1.67E+03	2.99E-01	2.57E+03	3.35E-01	3.47E+03	4.66E-01
7.73E+02	2.15E-01	1.67E+03	2.98E-01	2.57E+03	3.35E-01	3.47E+03	4.65E-01
7.75E+02	2.15E-01	1.67E+03	2.98E-01	2.57E+03	3.35E-01	3.47E+03	4.65E-01
7.77E+02	2.15E-01	1.68E+03	2.97E-01	2.57E+03	3.36E-01	3.47E+03	4.64E-01
7.79E+02	2.15E-01	1.68E+03	2.97E-01	2.58E+03	3.36E-01	3.48E+03	4.63E-01
7.81E+02	2.16E-01	1.68E+03	2.97E-01	2.58E+03	3.36E-01	3.48E+03	4.62E-01
7.83E+02	2.16E-01	1.68E+03	2.98E-01	2.58E+03	3.36E-01	3.48E+03	4.62E-01
7.85E+02	2.16E-01	1.68E+03	2.98E-01	2.58E+03	3.36E-01	3.48E+03	4.61E-01

5.09E+02	2.76E-01	1.41E+03	4.27E-01	2.31E+03	4.94E-01	3.21E+03	5.40E-01
5.11E+02	2.77E-01	1.41E+03	4.27E-01	2.31E+03	4.95E-01	3.21E+03	5.41E-01
5.13E+02	2.77E-01	1.41E+03	4.28E-01	2.31E+03	4.95E-01	3.21E+03	5.41E-01
5.15E+02	2.78E-01	1.42E+03	4.29E-01	2.32E+03	4.96E-01	3.22E+03	5.41E-01
5.17E+02	2.79E-01	1.42E+03	4.31E-01	2.32E+03	4.98E-01	3.22E+03	5.42E-01
5.19E+02	2.80E-01	1.42E+03	4.32E-01	2.32E+03	4.99E-01	3.22E+03	5.42E-01
5.21E+02	2.81E-01	1.42E+03	4.32E-01	2.32E+03	5.01E-01	3.22E+03	5.43E-01
5.23E+02	2.81E-01	1.42E+03	4.32E-01	2.32E+03	5.02E-01	3.22E+03	5.43E-01
5.25E+02	2.82E-01	1.43E+03	4.32E-01	2.33E+03	5.02E-01	3.23E+03	5.44E-01
5.26E+02	2.83E-01	1.43E+03	4.32E-01	2.33E+03	5.03E-01	3.23E+03	5.44E-01
5.28E+02	2.83E-01	1.43E+03	4.33E-01	2.33E+03	5.04E-01	3.23E+03	5.44E-01
5.30E+02	2.84E-01	1.43E+03	4.33E-01	2.33E+03	5.04E-01	3.23E+03	5.44E-01
5.32E+02	2.85E-01	1.43E+03	4.34E-01	2.33E+03	5.05E-01	3.23E+03	5.44E-01
5.34E+02	2.85E-01	1.43E+03	4.35E-01	2.34E+03	5.05E-01	3.24E+03	5.45E-01
5.36E+02	2.86E-01	1.44E+03	4.36E-01	2.34E+03	5.06E-01	3.24E+03	5.46E-01
5.38E+02	2.87E-01	1.44E+03	4.36E-01	2.34E+03	5.06E-01	3.24E+03	5.47E-01
5.40E+02	2.88E-01	1.44E+03	4.35E-01	2.34E+03	5.07E-01	3.24E+03	5.47E-01
5.42E+02	2.88E-01	1.44E+03	4.35E-01	2.34E+03	5.07E-01	3.24E+03	5.47E-01
5.44E+02	2.89E-01	1.44E+03	4.35E-01	2.35E+03	5.06E-01	3.25E+03	5.48E-01
5.46E+02	2.90E-01	1.45E+03	4.36E-01	2.35E+03	5.04E-01	3.25E+03	5.48E-01
5.48E+02	2.90E-01	1.45E+03	4.36E-01	2.35E+03	5.03E-01	3.25E+03	5.48E-01
5.50E+02	2.91E-01	1.45E+03	4.36E-01	2.35E+03	5.04E-01	3.25E+03	5.49E-01
5.52E+02	2.91E-01	1.45E+03	4.36E-01	2.35E+03	5.07E-01	3.25E+03	5.50E-01
5.53E+02	2.92E-01	1.45E+03	4.37E-01	2.35E+03	5.11E-01	3.26E+03	5.50E-01
5.55E+02	2.93E-01	1.46E+03	4.38E-01	2.36E+03	5.13E-01	3.26E+03	5.51E-01
5.57E+02	2.93E-01	1.46E+03	4.39E-01	2.36E+03	5.14E-01	3.26E+03	5.51E-01
5.59E+02	2.94E-01	1.46E+03	4.37E-01	2.36E+03	5.14E-01	3.26E+03	5.51E-01
5.61E+02	2.94E-01	1.46E+03	4.35E-01	2.36E+03	5.14E-01	3.26E+03	5.52E-01
5.63E+02	2.95E-01	1.46E+03	4.35E-01	2.36E+03	5.13E-01	3.26E+03	5.52E-01
5.65E+02	2.95E-01	1.47E+03	4.35E-01	2.37E+03	5.12E-01	3.27E+03	5.53E-01
5.67E+02	2.96E-01	1.47E+03	4.34E-01	2.37E+03	5.10E-01	3.27E+03	5.53E-01
5.69E+02	2.96E-01	1.47E+03	4.34E-01	2.37E+03	5.08E-01	3.27E+03	5.53E-01
5.71E+02	2.97E-01	1.47E+03	4.35E-01	2.37E+03	5.06E-01	3.27E+03	5.53E-01
5.73E+02	2.97E-01	1.47E+03	4.36E-01	2.37E+03	5.04E-01	3.27E+03	5.54E-01
5.75E+02	2.98E-01	1.48E+03	4.35E-01	2.38E+03	5.02E-01	3.28E+03	5.54E-01
5.77E+02	2.98E-01	1.48E+03	4.33E-01	2.38E+03	5.00E-01	3.28E+03	5.55E-01
5.79E+02	2.98E-01	1.48E+03	4.32E-01	2.38E+03	4.98E-01	3.28E+03	5.55E-01
5.80E+02	2.99E-01	1.48E+03	4.31E-01	2.38E+03	4.96E-01	3.28E+03	5.55E-01
5.82E+02	2.99E-01	1.48E+03	4.31E-01	2.38E+03	4.94E-01	3.28E+03	5.56E-01
5.84E+02	2.99E-01	1.48E+03	4.31E-01	2.39E+03	4.93E-01	3.29E+03	5.56E-01
5.86E+02	3.00E-01	1.49E+03	4.32E-01	2.39E+03	4.92E-01	3.29E+03	5.57E-01
5.88E+02	3.00E-01	1.49E+03	4.33E-01	2.39E+03	4.92E-01	3.29E+03	5.57E-01
5.90E+02	3.00E-01	1.49E+03	4.32E-01	2.39E+03	4.92E-01	3.29E+03	5.57E-01
5.92E+02	3.01E-01	1.49E+03	4.31E-01	2.39E+03	4.92E-01	3.29E+03	5.57E-01
5.94E+02	3.01E-01	1.49E+03	4.31E-01	2.40E+03	4.92E-01	3.30E+03	5.58E-01
5.96E+02	3.01E-01	1.50E+03	4.32E-01	2.40E+03	4.92E-01	3.30E+03	5.58E-01
5.98E+02	3.02E-01	1.50E+03	4.32E-01	2.40E+03	4.93E-01	3.30E+03	5.59E-01

6.00E+02	3.02E-01	1.50E+03	4.31E-01	2.40E+03	4.93E-01	3.30E+03	5.60E-01
6.02E+02	3.02E-01	1.50E+03	4.31E-01	2.40E+03	4.93E-01	3.30E+03	5.60E-01
6.04E+02	3.02E-01	1.50E+03	4.32E-01	2.40E+03	4.93E-01	3.31E+03	5.61E-01
6.06E+02	3.03E-01	1.51E+03	4.35E-01	2.41E+03	4.93E-01	3.31E+03	5.62E-01
6.07E+02	3.03E-01	1.51E+03	4.36E-01	2.41E+03	4.93E-01	3.31E+03	5.62E-01
6.09E+02	3.03E-01	1.51E+03	4.34E-01	2.41E+03	4.93E-01	3.31E+03	5.63E-01
6.11E+02	3.03E-01	1.51E+03	4.32E-01	2.41E+03	4.93E-01	3.31E+03	5.63E-01
6.13E+02	3.04E-01	1.51E+03	4.32E-01	2.41E+03	4.94E-01	3.32E+03	5.64E-01
6.15E+02	3.04E-01	1.52E+03	4.33E-01	2.42E+03	4.94E-01	3.32E+03	5.65E-01
6.17E+02	3.04E-01	1.52E+03	4.34E-01	2.42E+03	4.94E-01	3.32E+03	5.66E-01
6.19E+02	3.04E-01	1.52E+03	4.35E-01	2.42E+03	4.94E-01	3.32E+03	5.66E-01
6.21E+02	3.04E-01	1.52E+03	4.36E-01	2.42E+03	4.94E-01	3.32E+03	5.68E-01
6.23E+02	3.04E-01	1.52E+03	4.36E-01	2.42E+03	4.94E-01	3.32E+03	5.69E-01
6.25E+02	3.04E-01	1.53E+03	4.35E-01	2.43E+03	4.94E-01	3.33E+03	5.70E-01
6.27E+02	3.04E-01	1.53E+03	4.34E-01	2.43E+03	4.94E-01	3.33E+03	5.71E-01
6.29E+02	3.04E-01	1.53E+03	4.33E-01	2.43E+03	4.94E-01	3.33E+03	5.72E-01
6.31E+02	3.04E-01	1.53E+03	4.34E-01	2.43E+03	4.94E-01	3.33E+03	5.73E-01
6.33E+02	3.05E-01	1.53E+03	4.34E-01	2.43E+03	4.94E-01	3.33E+03	5.75E-01
6.34E+02	3.05E-01	1.54E+03	4.35E-01	2.44E+03	4.94E-01	3.34E+03	5.76E-01
6.36E+02	3.05E-01	1.54E+03	4.36E-01	2.44E+03	4.95E-01	3.34E+03	5.77E-01
6.38E+02	3.05E-01	1.54E+03	4.38E-01	2.44E+03	4.95E-01	3.34E+03	5.78E-01
6.40E+02	3.05E-01	1.54E+03	4.40E-01	2.44E+03	4.95E-01	3.34E+03	5.79E-01
6.42E+02	3.06E-01	1.54E+03	4.40E-01	2.44E+03	4.95E-01	3.34E+03	5.80E-01
6.44E+02	3.06E-01	1.54E+03	4.38E-01	2.45E+03	4.95E-01	3.35E+03	5.82E-01
6.46E+02	3.07E-01	1.55E+03	4.37E-01	2.45E+03	4.95E-01	3.35E+03	5.83E-01
6.48E+02	3.07E-01	1.55E+03	4.37E-01	2.45E+03	4.95E-01	3.35E+03	5.85E-01
6.50E+02	3.08E-01	1.55E+03	4.37E-01	2.45E+03	4.95E-01	3.35E+03	5.86E-01
6.52E+02	3.08E-01	1.55E+03	4.38E-01	2.45E+03	4.95E-01	3.35E+03	5.88E-01
6.54E+02	3.08E-01	1.55E+03	4.39E-01	2.45E+03	4.95E-01	3.36E+03	5.89E-01
6.56E+02	3.08E-01	1.56E+03	4.41E-01	2.46E+03	4.95E-01	3.36E+03	5.91E-01
6.58E+02	3.08E-01	1.56E+03	4.44E-01	2.46E+03	4.95E-01	3.36E+03	5.92E-01
6.60E+02	3.08E-01	1.56E+03	4.44E-01	2.46E+03	4.95E-01	3.36E+03	5.93E-01
6.61E+02	3.08E-01	1.56E+03	4.41E-01	2.46E+03	4.96E-01	3.36E+03	5.95E-01
6.63E+02	3.08E-01	1.56E+03	4.40E-01	2.46E+03	4.96E-01	3.37E+03	5.97E-01
6.65E+02	3.09E-01	1.57E+03	4.40E-01	2.47E+03	4.96E-01	3.37E+03	5.98E-01
6.67E+02	3.12E-01	1.57E+03	4.41E-01	2.47E+03	4.96E-01	3.37E+03	6.00E-01
6.69E+02	3.13E-01	1.57E+03	4.41E-01	2.47E+03	4.96E-01	3.37E+03	6.01E-01
6.71E+02	3.12E-01	1.57E+03	4.41E-01	2.47E+03	4.96E-01	3.37E+03	6.03E-01
6.73E+02	3.10E-01	1.57E+03	4.41E-01	2.47E+03	4.96E-01	3.37E+03	6.05E-01
6.75E+02	3.10E-01	1.58E+03	4.42E-01	2.48E+03	4.96E-01	3.38E+03	6.07E-01
6.77E+02	3.11E-01	1.58E+03	4.42E-01	2.48E+03	4.97E-01	3.38E+03	6.09E-01
6.79E+02	3.11E-01	1.58E+03	4.41E-01	2.48E+03	4.97E-01	3.38E+03	6.10E-01
6.81E+02	3.11E-01	1.58E+03	4.41E-01	2.48E+03	4.97E-01	3.38E+03	6.11E-01
6.83E+02	3.11E-01	1.58E+03	4.41E-01	2.48E+03	4.97E-01	3.38E+03	6.13E-01
6.85E+02	3.11E-01	1.59E+03	4.41E-01	2.49E+03	4.97E-01	3.39E+03	6.15E-01
6.87E+02	3.12E-01	1.59E+03	4.41E-01	2.49E+03	4.97E-01	3.39E+03	6.16E-01
6.88E+02	3.12E-01	1.59E+03	4.42E-01	2.49E+03	4.97E-01	3.39E+03	6.17E-01

6.90E+02	3.12E-01	1.59E+03	4.42E-01	2.49E+03	4.98E-01	3.39E+03	6.18E-01
6.92E+02	3.12E-01	1.59E+03	4.43E-01	2.49E+03	4.98E-01	3.39E+03	6.19E-01
6.94E+02	3.12E-01	1.59E+03	4.43E-01	2.50E+03	4.98E-01	3.40E+03	6.20E-01
6.96E+02	3.13E-01	1.60E+03	4.44E-01	2.50E+03	4.98E-01	3.40E+03	6.21E-01
6.98E+02	3.13E-01	1.60E+03	4.44E-01	2.50E+03	4.98E-01	3.40E+03	6.22E-01
7.00E+02	3.13E-01	1.60E+03	4.45E-01	2.50E+03	4.98E-01	3.40E+03	6.23E-01
7.02E+02	3.13E-01	1.60E+03	4.46E-01	2.50E+03	4.98E-01	3.40E+03	6.24E-01
7.04E+02	3.13E-01	1.60E+03	4.47E-01	2.51E+03	4.99E-01	3.41E+03	6.25E-01
7.06E+02	3.13E-01	1.61E+03	4.47E-01	2.51E+03	4.99E-01	3.41E+03	6.26E-01
7.08E+02	3.13E-01	1.61E+03	4.48E-01	2.51E+03	4.99E-01	3.41E+03	6.27E-01
7.10E+02	3.14E-01	1.61E+03	4.49E-01	2.51E+03	4.99E-01	3.41E+03	6.28E-01
7.12E+02	3.14E-01	1.61E+03	4.50E-01	2.51E+03	4.99E-01	3.41E+03	6.29E-01
7.14E+02	3.15E-01	1.61E+03	4.51E-01	2.51E+03	4.99E-01	3.42E+03	6.29E-01
7.15E+02	3.15E-01	1.62E+03	4.53E-01	2.52E+03	4.99E-01	3.42E+03	6.30E-01
7.17E+02	3.15E-01	1.62E+03	4.54E-01	2.52E+03	4.99E-01	3.42E+03	6.31E-01
7.19E+02	3.15E-01	1.62E+03	4.54E-01	2.52E+03	5.00E-01	3.42E+03	6.31E-01
7.21E+02	3.15E-01	1.62E+03	4.54E-01	2.52E+03	5.00E-01	3.42E+03	6.32E-01
7.23E+02	3.16E-01	1.62E+03	4.55E-01	2.52E+03	5.00E-01	3.42E+03	6.32E-01
7.25E+02	3.16E-01	1.63E+03	4.56E-01	2.53E+03	5.00E-01	3.43E+03	6.33E-01
7.27E+02	3.17E-01	1.63E+03	4.55E-01	2.53E+03	5.00E-01	3.43E+03	6.33E-01
7.29E+02	3.17E-01	1.63E+03	4.55E-01	2.53E+03	5.00E-01	3.43E+03	6.33E-01
7.31E+02	3.18E-01	1.63E+03	4.55E-01	2.53E+03	5.00E-01	3.43E+03	6.33E-01
7.33E+02	3.18E-01	1.63E+03	4.56E-01	2.53E+03	5.00E-01	3.43E+03	6.33E-01
7.35E+02	3.19E-01	1.64E+03	4.57E-01	2.54E+03	5.00E-01	3.44E+03	6.33E-01
7.37E+02	3.19E-01	1.64E+03	4.56E-01	2.54E+03	5.00E-01	3.44E+03	6.33E-01
7.39E+02	3.19E-01	1.64E+03	4.54E-01	2.54E+03	5.00E-01	3.44E+03	6.33E-01
7.41E+02	3.20E-01	1.64E+03	4.52E-01	2.54E+03	5.00E-01	3.44E+03	6.33E-01
7.42E+02	3.20E-01	1.64E+03	4.51E-01	2.54E+03	5.00E-01	3.44E+03	6.33E-01
7.44E+02	3.21E-01	1.64E+03	4.52E-01	2.55E+03	5.00E-01	3.45E+03	6.33E-01
7.46E+02	3.22E-01	1.65E+03	4.51E-01	2.55E+03	5.00E-01	3.45E+03	6.32E-01
7.48E+02	3.22E-01	1.65E+03	4.50E-01	2.55E+03	5.01E-01	3.45E+03	6.32E-01
7.50E+02	3.23E-01	1.65E+03	4.49E-01	2.55E+03	5.01E-01	3.45E+03	6.31E-01
7.52E+02	3.23E-01	1.65E+03	4.50E-01	2.55E+03	5.01E-01	3.45E+03	6.31E-01
7.54E+02	3.23E-01	1.65E+03	4.48E-01	2.56E+03	5.01E-01	3.46E+03	6.30E-01
7.56E+02	3.24E-01	1.66E+03	4.44E-01	2.56E+03	5.01E-01	3.46E+03	6.29E-01
7.58E+02	3.24E-01	1.66E+03	4.42E-01	2.56E+03	5.01E-01	3.46E+03	6.29E-01
7.60E+02	3.24E-01	1.66E+03	4.41E-01	2.56E+03	5.01E-01	3.46E+03	6.28E-01
7.62E+02	3.25E-01	1.66E+03	4.41E-01	2.56E+03	5.01E-01	3.46E+03	6.27E-01
7.64E+02	3.25E-01	1.66E+03	4.40E-01	2.56E+03	5.01E-01	3.47E+03	6.27E-01
7.66E+02	3.25E-01	1.67E+03	4.39E-01	2.57E+03	5.01E-01	3.47E+03	6.26E-01
7.68E+02	3.25E-01	1.67E+03	4.39E-01	2.57E+03	5.02E-01	3.47E+03	6.26E-01
7.69E+02	3.25E-01	1.67E+03	4.39E-01	2.57E+03	5.02E-01	3.47E+03	6.26E-01
7.71E+02	3.26E-01	1.67E+03	4.39E-01	2.57E+03	5.02E-01	3.47E+03	6.25E-01
7.73E+02	3.26E-01	1.67E+03	4.38E-01	2.57E+03	5.02E-01	3.48E+03	6.25E-01
7.75E+02	3.27E-01	1.68E+03	4.38E-01	2.58E+03	5.02E-01	3.48E+03	6.24E-01
7.77E+02	3.27E-01	1.68E+03	4.37E-01	2.58E+03	5.02E-01	3.48E+03	6.23E-01
7.79E+02	3.28E-01	1.68E+03	4.37E-01	2.58E+03	5.02E-01	3.48E+03	6.23E-01

7.81E+02	3.28E-01	1.68E+03	4.38E-01	2.58E+03	5.02E-01	3.48E+03	6.23E-01
7.83E+02	3.29E-01	1.68E+03	4.40E-01	2.58E+03	5.02E-01	3.48E+03	6.22E-01
7.85E+02	3.29E-01	1.69E+03	4.40E-01	2.59E+03	5.02E-01	3.49E+03	6.21E-01
7.87E+02	3.30E-01	1.69E+03	4.38E-01	2.59E+03	5.02E-01	3.49E+03	6.20E-01
7.89E+02	3.30E-01	1.69E+03	4.37E-01	2.59E+03	5.02E-01	3.49E+03	6.20E-01
7.91E+02	3.31E-01	1.69E+03	4.37E-01	2.59E+03	5.03E-01	3.49E+03	6.19E-01
7.93E+02	3.31E-01	1.69E+03	4.37E-01	2.59E+03	5.03E-01	3.49E+03	6.19E-01
7.95E+02	3.32E-01	1.70E+03	4.39E-01	2.60E+03	5.03E-01	3.50E+03	6.18E-01
7.96E+02	3.32E-01	1.70E+03	4.40E-01	2.60E+03	5.03E-01	3.50E+03	6.17E-01
7.98E+02	3.33E-01	1.70E+03	4.41E-01	2.60E+03	5.03E-01	3.50E+03	6.17E-01
8.00E+02	3.33E-01	1.70E+03	4.41E-01	2.60E+03	5.03E-01	3.50E+03	6.16E-01
8.02E+02	3.33E-01	1.70E+03	4.40E-01	2.60E+03	5.03E-01	3.50E+03	6.16E-01
8.04E+02	3.33E-01	1.70E+03	4.39E-01	2.61E+03	5.03E-01	3.51E+03	6.15E-01
8.06E+02	3.34E-01	1.71E+03	4.38E-01	2.61E+03	5.03E-01	3.51E+03	6.14E-01
8.08E+02	3.34E-01	1.71E+03	4.37E-01	2.61E+03	5.04E-01	3.51E+03	6.14E-01
8.10E+02	3.34E-01	1.71E+03	4.37E-01	2.61E+03	5.04E-01	3.51E+03	6.13E-01
8.12E+02	3.35E-01	1.71E+03	4.37E-01	2.61E+03	5.04E-01	3.51E+03	6.13E-01
8.14E+02	3.35E-01	1.71E+03	4.38E-01	2.62E+03	5.04E-01	3.52E+03	6.12E-01
8.16E+02	3.35E-01	1.72E+03	4.40E-01	2.62E+03	5.04E-01	3.52E+03	6.11E-01
8.18E+02	3.35E-01	1.72E+03	4.39E-01	2.62E+03	5.04E-01	3.52E+03	6.10E-01
8.20E+02	3.35E-01	1.72E+03	4.38E-01	2.62E+03	5.04E-01	3.52E+03	6.09E-01
8.22E+02	3.36E-01	1.72E+03	4.36E-01	2.62E+03	5.04E-01	3.52E+03	6.08E-01
8.23E+02	3.36E-01	1.72E+03	4.36E-01	2.62E+03	5.04E-01	3.53E+03	6.07E-01
8.25E+02	3.36E-01	1.73E+03	4.36E-01	2.63E+03	5.04E-01	3.53E+03	6.06E-01
8.27E+02	3.36E-01	1.73E+03	4.36E-01	2.63E+03	5.04E-01	3.53E+03	6.05E-01
8.29E+02	3.36E-01	1.73E+03	4.37E-01	2.63E+03	5.04E-01	3.53E+03	6.04E-01
8.31E+02	3.36E-01	1.73E+03	4.39E-01	2.63E+03	5.04E-01	3.53E+03	6.03E-01
8.33E+02	3.36E-01	1.73E+03	4.40E-01	2.63E+03	5.04E-01	3.53E+03	6.01E-01
8.35E+02	3.37E-01	1.74E+03	4.39E-01	2.64E+03	5.04E-01	3.54E+03	6.00E-01
8.37E+02	3.37E-01	1.74E+03	4.39E-01	2.64E+03	5.05E-01	3.54E+03	5.98E-01
8.39E+02	3.37E-01	1.74E+03	4.38E-01	2.64E+03	5.05E-01	3.54E+03	5.97E-01
8.41E+02	3.37E-01	1.74E+03	4.38E-01	2.64E+03	5.05E-01	3.54E+03	5.96E-01
8.43E+02	3.37E-01	1.74E+03	4.39E-01	2.64E+03	5.05E-01	3.54E+03	5.95E-01
8.45E+02	3.37E-01	1.75E+03	4.39E-01	2.65E+03	5.05E-01	3.55E+03	5.94E-01
8.47E+02	3.38E-01	1.75E+03	4.39E-01	2.65E+03	5.05E-01	3.55E+03	5.93E-01
8.49E+02	3.38E-01	1.75E+03	4.40E-01	2.65E+03	5.05E-01	3.55E+03	5.92E-01
8.50E+02	3.39E-01	1.75E+03	4.40E-01	2.65E+03	5.05E-01	3.55E+03	5.91E-01
8.52E+02	3.39E-01	1.75E+03	4.39E-01	2.65E+03	5.05E-01	3.55E+03	5.89E-01
8.54E+02	3.40E-01	1.75E+03	4.39E-01	2.66E+03	5.06E-01	3.56E+03	5.88E-01
8.56E+02	3.40E-01	1.76E+03	4.39E-01	2.66E+03	5.06E-01	3.56E+03	5.86E-01
8.58E+02	3.41E-01	1.76E+03	4.39E-01	2.66E+03	5.06E-01	3.56E+03	5.85E-01
8.60E+02	3.42E-01	1.76E+03	4.39E-01	2.66E+03	5.06E-01	3.56E+03	5.84E-01
8.62E+02	3.43E-01	1.76E+03	4.39E-01	2.66E+03	5.06E-01	3.56E+03	5.84E-01
8.64E+02	3.44E-01	1.76E+03	4.39E-01	2.67E+03	5.06E-01	3.57E+03	5.84E-01
8.66E+02	3.45E-01	1.77E+03	4.40E-01	2.67E+03	5.06E-01	3.57E+03	5.83E-01
8.68E+02	3.46E-01	1.77E+03	4.40E-01	2.67E+03	5.06E-01	3.57E+03	5.81E-01
8.70E+02	3.48E-01	1.77E+03	4.41E-01	2.67E+03	5.06E-01	3.57E+03	5.78E-01

8.72E+02	3.49E-01	1.77E+03	4.42E-01	2.67E+03	5.06E-01	3.57E+03	5.76E-01
8.74E+02	3.51E-01	1.77E+03	4.42E-01	2.67E+03	5.06E-01	3.58E+03	5.75E-01
8.76E+02	3.51E-01	1.78E+03	4.41E-01	2.68E+03	5.06E-01	3.58E+03	5.74E-01
8.77E+02	3.50E-01	1.78E+03	4.41E-01	2.68E+03	5.07E-01	3.58E+03	5.73E-01
8.79E+02	3.49E-01	1.78E+03	4.41E-01	2.68E+03	5.07E-01	3.58E+03	5.71E-01
8.81E+02	3.48E-01	1.78E+03	4.41E-01	2.68E+03	5.07E-01	3.58E+03	5.70E-01
8.83E+02	3.48E-01	1.78E+03	4.41E-01	2.68E+03	5.07E-01	3.59E+03	5.70E-01
8.85E+02	3.47E-01	1.79E+03	4.41E-01	2.69E+03	5.07E-01	3.59E+03	5.70E-01
8.87E+02	3.46E-01	1.79E+03	4.41E-01	2.69E+03	5.07E-01	3.59E+03	5.69E-01
8.89E+02	3.46E-01	1.79E+03	4.42E-01	2.69E+03	5.07E-01	3.59E+03	5.67E-01
8.91E+02	3.46E-01	1.79E+03	4.43E-01	2.69E+03	5.07E-01	3.59E+03	5.65E-01
8.93E+02	3.46E-01	1.79E+03	4.44E-01	2.69E+03	5.07E-01	3.59E+03	5.64E-01
8.95E+02	3.46E-01	1.80E+03	4.43E-01	2.70E+03	5.07E-01	3.60E+03	5.63E-01
8.97E+02	3.46E-01	1.80E+03	4.43E-01	2.70E+03	5.08E-01	3.60E+03	5.62E-01
8.99E+02	3.46E-01	1.80E+03	4.44E-01	2.70E+03	5.08E-01	3.60E+03	5.60E-01
9.01E+02	3.46E-01	1.80E+03	4.44E-01	2.70E+03	5.08E-01	3.60E+03	5.59E-01
9.03E+02	3.46E-01	1.80E+03	4.44E-01	2.70E+03	5.08E-01	3.60E+03	5.58E-01
9.04E+02	3.47E-01	1.81E+03	4.43E-01	2.71E+03	5.08E-01	3.61E+03	5.58E-01
9.06E+02	3.47E-01	1.81E+03	4.43E-01	2.71E+03	5.08E-01	3.61E+03	5.58E-01
9.08E+02	3.47E-01	1.81E+03	4.44E-01	2.71E+03	5.08E-01	3.61E+03	5.57E-01
9.10E+02	3.48E-01	1.81E+03	4.44E-01	2.71E+03	5.08E-01	3.61E+03	5.56E-01
9.12E+02	3.48E-01	1.81E+03	4.44E-01	2.71E+03	5.08E-01	3.61E+03	5.55E-01
9.14E+02	3.48E-01	1.81E+03	4.44E-01	2.72E+03	5.08E-01	3.62E+03	5.54E-01
9.16E+02	3.49E-01	1.82E+03	4.44E-01	2.72E+03	5.08E-01	3.62E+03	5.54E-01
9.18E+02	3.49E-01	1.82E+03	4.44E-01	2.72E+03	5.09E-01	3.62E+03	5.53E-01
9.20E+02	3.50E-01	1.82E+03	4.45E-01	2.72E+03	5.09E-01	3.62E+03	5.52E-01
9.22E+02	3.50E-01	1.82E+03	4.45E-01	2.72E+03	5.09E-01	3.62E+03	5.50E-01
9.24E+02	3.50E-01	1.82E+03	4.46E-01	2.72E+03	5.09E-01	3.63E+03	5.50E-01
9.26E+02	3.51E-01	1.83E+03	4.47E-01	2.73E+03	5.09E-01	3.63E+03	5.51E-01
9.28E+02	3.51E-01	1.83E+03	4.47E-01	2.73E+03	5.09E-01	3.63E+03	5.51E-01
9.30E+02	3.52E-01	1.83E+03	4.47E-01	2.73E+03	5.09E-01	3.63E+03	5.50E-01
9.31E+02	3.53E-01	1.83E+03	4.47E-01	2.73E+03	5.09E-01	3.63E+03	5.48E-01
9.33E+02	3.53E-01	1.83E+03	4.47E-01	2.73E+03	5.09E-01	3.64E+03	5.47E-01
9.35E+02	3.54E-01	1.84E+03	4.47E-01	2.74E+03	5.09E-01	3.64E+03	5.46E-01
9.37E+02	3.54E-01	1.84E+03	4.47E-01	2.74E+03	5.09E-01	3.64E+03	5.45E-01
9.39E+02	3.55E-01	1.84E+03	4.47E-01	2.74E+03	5.10E-01	3.64E+03	5.45E-01
9.41E+02	3.56E-01	1.84E+03	4.48E-01	2.74E+03	5.10E-01	3.64E+03	5.44E-01
9.43E+02	3.56E-01	1.84E+03	4.49E-01	2.74E+03	5.10E-01	3.64E+03	5.44E-01
9.45E+02	3.57E-01	1.85E+03	4.49E-01	2.75E+03	5.10E-01	3.65E+03	5.46E-01
9.47E+02	3.57E-01	1.85E+03	4.49E-01	2.75E+03	5.10E-01	3.65E+03	5.47E-01
9.49E+02	3.58E-01	1.85E+03	4.48E-01	2.75E+03	5.10E-01	3.65E+03	5.47E-01
9.51E+02	3.59E-01	1.85E+03	4.48E-01	2.75E+03	5.10E-01	3.65E+03	5.46E-01
9.53E+02	3.59E-01	1.85E+03	4.49E-01	2.75E+03	5.10E-01	3.65E+03	5.45E-01
9.55E+02	3.60E-01	1.86E+03	4.49E-01	2.76E+03	5.10E-01	3.66E+03	5.44E-01
9.57E+02	3.60E-01	1.86E+03	4.49E-01	2.76E+03	5.10E-01	3.66E+03	5.43E-01
9.58E+02	3.61E-01	1.86E+03	4.49E-01	2.76E+03	5.10E-01	3.66E+03	5.42E-01
9.60E+02	3.62E-01	1.86E+03	4.50E-01	2.76E+03	5.10E-01	3.66E+03	5.41E-01

4.17E+02	5.47E-02	1.32E+03	1.30E-01	2.22E+03	1.69E-01	3.12E+03	2.16E-01
4.18E+02	5.51E-02	1.32E+03	1.30E-01	2.22E+03	1.69E-01	3.12E+03	2.17E-01
4.20E+02	5.53E-02	1.32E+03	1.30E-01	2.22E+03	1.70E-01	3.12E+03	2.17E-01
4.22E+02	5.54E-02	1.32E+03	1.30E-01	2.22E+03	1.70E-01	3.12E+03	2.17E-01
4.24E+02	5.57E-02	1.32E+03	1.30E-01	2.23E+03	1.70E-01	3.13E+03	2.17E-01
4.26E+02	5.59E-02	1.33E+03	1.30E-01	2.23E+03	1.70E-01	3.13E+03	2.17E-01
4.28E+02	5.61E-02	1.33E+03	1.30E-01	2.23E+03	1.70E-01	3.13E+03	2.17E-01
4.30E+02	5.64E-02	1.33E+03	1.30E-01	2.23E+03	1.70E-01	3.13E+03	2.17E-01
4.32E+02	5.69E-02	1.33E+03	1.30E-01	2.23E+03	1.70E-01	3.13E+03	2.18E-01
4.34E+02	5.73E-02	1.33E+03	1.30E-01	2.24E+03	1.70E-01	3.14E+03	2.18E-01
4.36E+02	5.74E-02	1.34E+03	1.31E-01	2.24E+03	1.71E-01	3.14E+03	2.18E-01
4.38E+02	5.75E-02	1.34E+03	1.31E-01	2.24E+03	1.71E-01	3.14E+03	2.18E-01
4.40E+02	5.79E-02	1.34E+03	1.31E-01	2.24E+03	1.71E-01	3.14E+03	2.18E-01
4.42E+02	5.83E-02	1.34E+03	1.31E-01	2.24E+03	1.71E-01	3.14E+03	2.19E-01
4.44E+02	5.87E-02	1.34E+03	1.31E-01	2.24E+03	1.71E-01	3.15E+03	2.19E-01
4.45E+02	5.91E-02	1.35E+03	1.31E-01	2.25E+03	1.71E-01	3.15E+03	2.19E-01
4.47E+02	5.94E-02	1.35E+03	1.31E-01	2.25E+03	1.71E-01	3.15E+03	2.19E-01
4.49E+02	5.97E-02	1.35E+03	1.31E-01	2.25E+03	1.71E-01	3.15E+03	2.19E-01
4.51E+02	5.98E-02	1.35E+03	1.32E-01	2.25E+03	1.71E-01	3.15E+03	2.19E-01
4.53E+02	6.00E-02	1.35E+03	1.32E-01	2.25E+03	1.71E-01	3.15E+03	2.19E-01
4.55E+02	6.04E-02	1.36E+03	1.32E-01	2.26E+03	1.71E-01	3.16E+03	2.20E-01
4.57E+02	6.08E-02	1.36E+03	1.33E-01	2.26E+03	1.71E-01	3.16E+03	2.20E-01
4.59E+02	6.09E-02	1.36E+03	1.33E-01	2.26E+03	1.71E-01	3.16E+03	2.21E-01
4.61E+02	6.10E-02	1.36E+03	1.33E-01	2.26E+03	1.72E-01	3.16E+03	2.21E-01
4.63E+02	6.15E-02	1.36E+03	1.33E-01	2.26E+03	1.72E-01	3.16E+03	2.21E-01
4.65E+02	6.22E-02	1.37E+03	1.33E-01	2.27E+03	1.72E-01	3.17E+03	2.21E-01
4.67E+02	6.26E-02	1.37E+03	1.34E-01	2.27E+03	1.72E-01	3.17E+03	2.22E-01
4.69E+02	6.26E-02	1.37E+03	1.34E-01	2.27E+03	1.72E-01	3.17E+03	2.22E-01
4.71E+02	6.27E-02	1.37E+03	1.35E-01	2.27E+03	1.72E-01	3.17E+03	2.22E-01
4.72E+02	6.30E-02	1.37E+03	1.35E-01	2.27E+03	1.72E-01	3.17E+03	2.22E-01
4.74E+02	6.33E-02	1.38E+03	1.35E-01	2.28E+03	1.72E-01	3.18E+03	2.23E-01
4.76E+02	6.33E-02	1.38E+03	1.35E-01	2.28E+03	1.72E-01	3.18E+03	2.23E-01
4.78E+02	6.33E-02	1.38E+03	1.36E-01	2.28E+03	1.73E-01	3.18E+03	2.23E-01
4.80E+02	6.33E-02	1.38E+03	1.36E-01	2.28E+03	1.73E-01	3.18E+03	2.24E-01
4.82E+02	6.34E-02	1.38E+03	1.36E-01	2.28E+03	1.73E-01	3.18E+03	2.24E-01
4.84E+02	6.35E-02	1.38E+03	1.36E-01	2.29E+03	1.73E-01	3.19E+03	2.24E-01
4.86E+02	6.37E-02	1.39E+03	1.37E-01	2.29E+03	1.73E-01	3.19E+03	2.24E-01
4.88E+02	6.39E-02	1.39E+03	1.37E-01	2.29E+03	1.73E-01	3.19E+03	2.24E-01
4.90E+02	6.42E-02	1.39E+03	1.37E-01	2.29E+03	1.72E-01	3.19E+03	2.25E-01
4.92E+02	6.43E-02	1.39E+03	1.38E-01	2.29E+03	1.72E-01	3.19E+03	2.25E-01
4.94E+02	6.44E-02	1.39E+03	1.38E-01	2.29E+03	1.72E-01	3.20E+03	2.25E-01
4.96E+02	6.46E-02	1.40E+03	1.39E-01	2.30E+03	1.72E-01	3.20E+03	2.26E-01
4.98E+02	6.48E-02	1.40E+03	1.39E-01	2.30E+03	1.72E-01	3.20E+03	2.26E-01
4.99E+02	6.51E-02	1.40E+03	1.39E-01	2.30E+03	1.72E-01	3.20E+03	2.26E-01
5.01E+02	6.53E-02	1.40E+03	1.40E-01	2.30E+03	1.72E-01	3.20E+03	2.27E-01
5.03E+02	6.56E-02	1.40E+03	1.40E-01	2.30E+03	1.71E-01	3.21E+03	2.27E-01
5.05E+02	6.59E-02	1.41E+03	1.40E-01	2.31E+03	1.71E-01	3.21E+03	2.27E-01

5.07E+02	6.64E-02	1.41E+03	1.41E-01	2.31E+03	1.70E-01	3.21E+03	2.28E-01
5.09E+02	6.70E-02	1.41E+03	1.41E-01	2.31E+03	1.70E-01	3.21E+03	2.28E-01
5.11E+02	6.75E-02	1.41E+03	1.42E-01	2.31E+03	1.70E-01	3.21E+03	2.29E-01
5.13E+02	6.81E-02	1.41E+03	1.43E-01	2.31E+03	1.69E-01	3.21E+03	2.29E-01
5.15E+02	6.86E-02	1.42E+03	1.43E-01	2.32E+03	1.69E-01	3.22E+03	2.30E-01
5.17E+02	6.91E-02	1.42E+03	1.44E-01	2.32E+03	1.68E-01	3.22E+03	2.30E-01
5.19E+02	6.95E-02	1.42E+03	1.45E-01	2.32E+03	1.68E-01	3.22E+03	2.30E-01
5.21E+02	6.98E-02	1.42E+03	1.45E-01	2.32E+03	1.67E-01	3.22E+03	2.30E-01
5.23E+02	7.02E-02	1.42E+03	1.46E-01	2.32E+03	1.66E-01	3.22E+03	2.31E-01
5.25E+02	7.07E-02	1.43E+03	1.46E-01	2.33E+03	1.66E-01	3.23E+03	2.31E-01
5.26E+02	7.12E-02	1.43E+03	1.47E-01	2.33E+03	1.65E-01	3.23E+03	2.32E-01
5.28E+02	7.16E-02	1.43E+03	1.47E-01	2.33E+03	1.64E-01	3.23E+03	2.32E-01
5.30E+02	7.21E-02	1.43E+03	1.48E-01	2.33E+03	1.64E-01	3.23E+03	2.33E-01
5.32E+02	7.27E-02	1.43E+03	1.48E-01	2.33E+03	1.64E-01	3.23E+03	2.33E-01
5.34E+02	7.32E-02	1.43E+03	1.49E-01	2.34E+03	1.64E-01	3.24E+03	2.33E-01
5.36E+02	7.34E-02	1.44E+03	1.49E-01	2.34E+03	1.63E-01	3.24E+03	2.34E-01
5.38E+02	7.37E-02	1.44E+03	1.49E-01	2.34E+03	1.63E-01	3.24E+03	2.34E-01
5.40E+02	7.41E-02	1.44E+03	1.49E-01	2.34E+03	1.62E-01	3.24E+03	2.35E-01
5.42E+02	7.45E-02	1.44E+03	1.50E-01	2.34E+03	1.63E-01	3.24E+03	2.35E-01
5.44E+02	7.48E-02	1.44E+03	1.50E-01	2.35E+03	1.64E-01	3.25E+03	2.36E-01
5.46E+02	7.49E-02	1.45E+03	1.50E-01	2.35E+03	1.65E-01	3.25E+03	2.36E-01
5.48E+02	7.49E-02	1.45E+03	1.50E-01	2.35E+03	1.66E-01	3.25E+03	2.37E-01
5.50E+02	7.50E-02	1.45E+03	1.50E-01	2.35E+03	1.66E-01	3.25E+03	2.37E-01
5.52E+02	7.52E-02	1.45E+03	1.50E-01	2.35E+03	1.65E-01	3.25E+03	2.37E-01
5.53E+02	7.56E-02	1.45E+03	1.50E-01	2.35E+03	1.63E-01	3.26E+03	2.38E-01
5.55E+02	7.59E-02	1.46E+03	1.50E-01	2.36E+03	1.61E-01	3.26E+03	2.38E-01
5.57E+02	7.62E-02	1.46E+03	1.49E-01	2.36E+03	1.61E-01	3.26E+03	2.39E-01
5.59E+02	7.64E-02	1.46E+03	1.48E-01	2.36E+03	1.60E-01	3.26E+03	2.39E-01
5.61E+02	7.65E-02	1.46E+03	1.48E-01	2.36E+03	1.61E-01	3.26E+03	2.39E-01
5.63E+02	7.66E-02	1.46E+03	1.48E-01	2.36E+03	1.61E-01	3.26E+03	2.40E-01
5.65E+02	7.68E-02	1.47E+03	1.47E-01	2.37E+03	1.63E-01	3.27E+03	2.40E-01
5.67E+02	7.70E-02	1.47E+03	1.47E-01	2.37E+03	1.65E-01	3.27E+03	2.40E-01
5.69E+02	7.70E-02	1.47E+03	1.47E-01	2.37E+03	1.66E-01	3.27E+03	2.40E-01
5.71E+02	7.70E-02	1.47E+03	1.46E-01	2.37E+03	1.68E-01	3.27E+03	2.41E-01
5.73E+02	7.72E-02	1.47E+03	1.45E-01	2.37E+03	1.69E-01	3.27E+03	2.41E-01
5.75E+02	7.73E-02	1.48E+03	1.45E-01	2.38E+03	1.71E-01	3.28E+03	2.41E-01
5.77E+02	7.74E-02	1.48E+03	1.44E-01	2.38E+03	1.73E-01	3.28E+03	2.42E-01
5.79E+02	7.75E-02	1.48E+03	1.44E-01	2.38E+03	1.74E-01	3.28E+03	2.42E-01
5.80E+02	7.75E-02	1.48E+03	1.43E-01	2.38E+03	1.76E-01	3.28E+03	2.43E-01
5.82E+02	7.74E-02	1.48E+03	1.43E-01	2.38E+03	1.77E-01	3.28E+03	2.43E-01
5.84E+02	7.73E-02	1.48E+03	1.42E-01	2.39E+03	1.78E-01	3.29E+03	2.43E-01
5.86E+02	7.75E-02	1.49E+03	1.42E-01	2.39E+03	1.78E-01	3.29E+03	2.44E-01
5.88E+02	7.77E-02	1.49E+03	1.41E-01	2.39E+03	1.78E-01	3.29E+03	2.44E-01
5.90E+02	7.78E-02	1.49E+03	1.41E-01	2.39E+03	1.79E-01	3.29E+03	2.45E-01
5.92E+02	7.78E-02	1.49E+03	1.40E-01	2.39E+03	1.79E-01	3.29E+03	2.45E-01
5.94E+02	7.77E-02	1.49E+03	1.40E-01	2.40E+03	1.79E-01	3.30E+03	2.45E-01
5.96E+02	7.76E-02	1.50E+03	1.40E-01	2.40E+03	1.79E-01	3.30E+03	2.46E-01

5.98E+02	7.75E-02	1.50E+03	1.40E-01	2.40E+03	1.79E-01	3.30E+03	2.46E-01
6.00E+02	7.74E-02	1.50E+03	1.39E-01	2.40E+03	1.79E-01	3.30E+03	2.46E-01
6.02E+02	7.73E-02	1.50E+03	1.40E-01	2.40E+03	1.79E-01	3.30E+03	2.47E-01
6.04E+02	7.73E-02	1.50E+03	1.40E-01	2.40E+03	1.80E-01	3.31E+03	2.47E-01
6.06E+02	7.74E-02	1.51E+03	1.40E-01	2.41E+03	1.80E-01	3.31E+03	2.48E-01
6.07E+02	7.75E-02	1.51E+03	1.39E-01	2.41E+03	1.80E-01	3.31E+03	2.48E-01
6.09E+02	7.75E-02	1.51E+03	1.39E-01	2.41E+03	1.80E-01	3.31E+03	2.49E-01
6.11E+02	7.72E-02	1.51E+03	1.39E-01	2.41E+03	1.80E-01	3.31E+03	2.49E-01
6.13E+02	7.70E-02	1.51E+03	1.39E-01	2.41E+03	1.80E-01	3.32E+03	2.50E-01
6.15E+02	7.67E-02	1.52E+03	1.39E-01	2.42E+03	1.80E-01	3.32E+03	2.51E-01
6.17E+02	7.65E-02	1.52E+03	1.39E-01	2.42E+03	1.80E-01	3.32E+03	2.52E-01
6.19E+02	7.63E-02	1.52E+03	1.39E-01	2.42E+03	1.81E-01	3.32E+03	2.52E-01
6.21E+02	7.62E-02	1.52E+03	1.39E-01	2.42E+03	1.81E-01	3.32E+03	2.53E-01
6.23E+02	7.61E-02	1.52E+03	1.39E-01	2.42E+03	1.81E-01	3.32E+03	2.54E-01
6.25E+02	7.59E-02	1.53E+03	1.39E-01	2.43E+03	1.81E-01	3.33E+03	2.55E-01
6.27E+02	7.56E-02	1.53E+03	1.39E-01	2.43E+03	1.81E-01	3.33E+03	2.56E-01
6.29E+02	7.53E-02	1.53E+03	1.39E-01	2.43E+03	1.81E-01	3.33E+03	2.57E-01
6.31E+02	7.51E-02	1.53E+03	1.39E-01	2.43E+03	1.81E-01	3.33E+03	2.58E-01
6.33E+02	7.50E-02	1.53E+03	1.40E-01	2.43E+03	1.81E-01	3.33E+03	2.59E-01
6.34E+02	7.47E-02	1.54E+03	1.40E-01	2.44E+03	1.81E-01	3.34E+03	2.60E-01
6.36E+02	7.44E-02	1.54E+03	1.41E-01	2.44E+03	1.81E-01	3.34E+03	2.61E-01
6.38E+02	7.41E-02	1.54E+03	1.41E-01	2.44E+03	1.81E-01	3.34E+03	2.62E-01
6.40E+02	7.38E-02	1.54E+03	1.41E-01	2.44E+03	1.82E-01	3.34E+03	2.63E-01
6.42E+02	7.36E-02	1.54E+03	1.41E-01	2.44E+03	1.82E-01	3.34E+03	2.64E-01
6.44E+02	7.34E-02	1.54E+03	1.41E-01	2.45E+03	1.82E-01	3.35E+03	2.65E-01
6.46E+02	7.32E-02	1.55E+03	1.41E-01	2.45E+03	1.82E-01	3.35E+03	2.66E-01
6.48E+02	7.28E-02	1.55E+03	1.42E-01	2.45E+03	1.82E-01	3.35E+03	2.68E-01
6.50E+02	7.25E-02	1.55E+03	1.42E-01	2.45E+03	1.82E-01	3.35E+03	2.69E-01
6.52E+02	7.23E-02	1.55E+03	1.43E-01	2.45E+03	1.82E-01	3.35E+03	2.70E-01
6.54E+02	7.22E-02	1.55E+03	1.43E-01	2.45E+03	1.83E-01	3.36E+03	2.71E-01
6.56E+02	7.22E-02	1.56E+03	1.44E-01	2.46E+03	1.83E-01	3.36E+03	2.73E-01
6.58E+02	7.21E-02	1.56E+03	1.44E-01	2.46E+03	1.83E-01	3.36E+03	2.74E-01
6.60E+02	7.20E-02	1.56E+03	1.44E-01	2.46E+03	1.83E-01	3.36E+03	2.75E-01
6.61E+02	7.22E-02	1.56E+03	1.44E-01	2.46E+03	1.83E-01	3.36E+03	2.77E-01
6.63E+02	7.23E-02	1.56E+03	1.45E-01	2.46E+03	1.83E-01	3.37E+03	2.78E-01
6.65E+02	7.17E-02	1.57E+03	1.45E-01	2.47E+03	1.83E-01	3.37E+03	2.80E-01
6.67E+02	7.03E-02	1.57E+03	1.46E-01	2.47E+03	1.83E-01	3.37E+03	2.81E-01
6.69E+02	6.95E-02	1.57E+03	1.46E-01	2.47E+03	1.83E-01	3.37E+03	2.82E-01
6.71E+02	7.04E-02	1.57E+03	1.46E-01	2.47E+03	1.83E-01	3.37E+03	2.84E-01
6.73E+02	7.15E-02	1.57E+03	1.47E-01	2.47E+03	1.83E-01	3.37E+03	2.85E-01
6.75E+02	7.17E-02	1.58E+03	1.48E-01	2.48E+03	1.84E-01	3.38E+03	2.86E-01
6.77E+02	7.15E-02	1.58E+03	1.48E-01	2.48E+03	1.84E-01	3.38E+03	2.88E-01
6.79E+02	7.14E-02	1.58E+03	1.48E-01	2.48E+03	1.84E-01	3.38E+03	2.89E-01
6.81E+02	7.14E-02	1.58E+03	1.48E-01	2.48E+03	1.84E-01	3.38E+03	2.90E-01
6.83E+02	7.16E-02	1.58E+03	1.49E-01	2.48E+03	1.84E-01	3.38E+03	2.92E-01
6.85E+02	7.17E-02	1.59E+03	1.50E-01	2.49E+03	1.84E-01	3.39E+03	2.93E-01
6.87E+02	7.20E-02	1.59E+03	1.50E-01	2.49E+03	1.84E-01	3.39E+03	2.94E-01

6.88E+02	7.23E-02	1.59E+03	1.51E-01	2.49E+03	1.84E-01	3.39E+03	2.95E-01
6.90E+02	7.26E-02	1.59E+03	1.51E-01	2.49E+03	1.84E-01	3.39E+03	2.96E-01
6.92E+02	7.28E-02	1.59E+03	1.52E-01	2.49E+03	1.84E-01	3.39E+03	2.98E-01
6.94E+02	7.28E-02	1.59E+03	1.52E-01	2.50E+03	1.84E-01	3.40E+03	2.99E-01
6.96E+02	7.29E-02	1.60E+03	1.53E-01	2.50E+03	1.85E-01	3.40E+03	3.00E-01
6.98E+02	7.30E-02	1.60E+03	1.54E-01	2.50E+03	1.85E-01	3.40E+03	3.01E-01
7.00E+02	7.31E-02	1.60E+03	1.55E-01	2.50E+03	1.85E-01	3.40E+03	3.01E-01
7.02E+02	7.32E-02	1.60E+03	1.55E-01	2.50E+03	1.85E-01	3.40E+03	3.02E-01
7.04E+02	7.33E-02	1.60E+03	1.56E-01	2.51E+03	1.85E-01	3.41E+03	3.03E-01
7.06E+02	7.35E-02	1.61E+03	1.57E-01	2.51E+03	1.86E-01	3.41E+03	3.04E-01
7.08E+02	7.39E-02	1.61E+03	1.58E-01	2.51E+03	1.86E-01	3.41E+03	3.05E-01
7.10E+02	7.43E-02	1.61E+03	1.58E-01	2.51E+03	1.86E-01	3.41E+03	3.05E-01
7.12E+02	7.48E-02	1.61E+03	1.59E-01	2.51E+03	1.86E-01	3.41E+03	3.06E-01
7.14E+02	7.49E-02	1.61E+03	1.60E-01	2.51E+03	1.86E-01	3.42E+03	3.06E-01
7.15E+02	7.47E-02	1.62E+03	1.61E-01	2.52E+03	1.86E-01	3.42E+03	3.07E-01
7.17E+02	7.42E-02	1.62E+03	1.61E-01	2.52E+03	1.86E-01	3.42E+03	3.08E-01
7.19E+02	7.40E-02	1.62E+03	1.62E-01	2.52E+03	1.86E-01	3.42E+03	3.08E-01
7.21E+02	7.40E-02	1.62E+03	1.62E-01	2.52E+03	1.86E-01	3.42E+03	3.08E-01
7.23E+02	7.42E-02	1.62E+03	1.62E-01	2.52E+03	1.86E-01	3.42E+03	3.09E-01
7.25E+02	7.45E-02	1.63E+03	1.63E-01	2.53E+03	1.86E-01	3.43E+03	3.09E-01
7.27E+02	7.46E-02	1.63E+03	1.63E-01	2.53E+03	1.87E-01	3.43E+03	3.09E-01
7.29E+02	7.48E-02	1.63E+03	1.63E-01	2.53E+03	1.87E-01	3.43E+03	3.09E-01
7.31E+02	7.51E-02	1.63E+03	1.63E-01	2.53E+03	1.87E-01	3.43E+03	3.09E-01
7.33E+02	7.52E-02	1.63E+03	1.63E-01	2.53E+03	1.87E-01	3.43E+03	3.09E-01
7.35E+02	7.54E-02	1.64E+03	1.62E-01	2.54E+03	1.87E-01	3.44E+03	3.09E-01
7.37E+02	7.55E-02	1.64E+03	1.61E-01	2.54E+03	1.87E-01	3.44E+03	3.09E-01
7.39E+02	7.57E-02	1.64E+03	1.60E-01	2.54E+03	1.87E-01	3.44E+03	3.09E-01
7.41E+02	7.60E-02	1.64E+03	1.59E-01	2.54E+03	1.87E-01	3.44E+03	3.09E-01
7.42E+02	7.63E-02	1.64E+03	1.58E-01	2.54E+03	1.87E-01	3.44E+03	3.09E-01
7.44E+02	7.66E-02	1.64E+03	1.57E-01	2.55E+03	1.87E-01	3.45E+03	3.09E-01
7.46E+02	7.69E-02	1.65E+03	1.56E-01	2.55E+03	1.87E-01	3.45E+03	3.09E-01
7.48E+02	7.70E-02	1.65E+03	1.55E-01	2.55E+03	1.87E-01	3.45E+03	3.08E-01
7.50E+02	7.72E-02	1.65E+03	1.55E-01	2.55E+03	1.87E-01	3.45E+03	3.08E-01
7.52E+02	7.74E-02	1.65E+03	1.53E-01	2.55E+03	1.87E-01	3.45E+03	3.08E-01
7.54E+02	7.76E-02	1.65E+03	1.51E-01	2.56E+03	1.88E-01	3.46E+03	3.07E-01
7.56E+02	7.79E-02	1.66E+03	1.50E-01	2.56E+03	1.88E-01	3.46E+03	3.07E-01
7.58E+02	7.81E-02	1.66E+03	1.50E-01	2.56E+03	1.88E-01	3.46E+03	3.06E-01
7.60E+02	7.82E-02	1.66E+03	1.49E-01	2.56E+03	1.88E-01	3.46E+03	3.06E-01
7.62E+02	7.83E-02	1.66E+03	1.48E-01	2.56E+03	1.88E-01	3.46E+03	3.06E-01
7.64E+02	7.83E-02	1.66E+03	1.47E-01	2.56E+03	1.88E-01	3.47E+03	3.05E-01
7.66E+02	7.84E-02	1.67E+03	1.46E-01	2.57E+03	1.88E-01	3.47E+03	3.05E-01
7.68E+02	7.85E-02	1.67E+03	1.45E-01	2.57E+03	1.88E-01	3.47E+03	3.05E-01
7.69E+02	7.86E-02	1.67E+03	1.44E-01	2.57E+03	1.88E-01	3.47E+03	3.04E-01
7.71E+02	7.87E-02	1.67E+03	1.44E-01	2.57E+03	1.89E-01	3.47E+03	3.04E-01
7.73E+02	7.88E-02	1.67E+03	1.43E-01	2.57E+03	1.89E-01	3.48E+03	3.03E-01
7.75E+02	7.89E-02	1.68E+03	1.43E-01	2.58E+03	1.89E-01	3.48E+03	3.03E-01
7.77E+02	7.91E-02	1.68E+03	1.42E-01	2.58E+03	1.89E-01	3.48E+03	3.02E-01

7.79E+02	7.94E-02	1.68E+03	1.43E-01	2.58E+03	1.89E-01	3.48E+03	3.02E-01
7.81E+02	7.97E-02	1.68E+03	1.43E-01	2.58E+03	1.89E-01	3.48E+03	3.01E-01
7.83E+02	7.99E-02	1.68E+03	1.42E-01	2.58E+03	1.89E-01	3.48E+03	3.01E-01
7.85E+02	8.01E-02	1.69E+03	1.42E-01	2.59E+03	1.89E-01	3.49E+03	3.00E-01
7.87E+02	8.02E-02	1.69E+03	1.42E-01	2.59E+03	1.89E-01	3.49E+03	3.00E-01
7.89E+02	8.04E-02	1.69E+03	1.42E-01	2.59E+03	1.89E-01	3.49E+03	2.99E-01
7.91E+02	8.07E-02	1.69E+03	1.42E-01	2.59E+03	1.89E-01	3.49E+03	2.99E-01
7.93E+02	8.09E-02	1.69E+03	1.42E-01	2.59E+03	1.90E-01	3.49E+03	2.98E-01
7.95E+02	8.11E-02	1.70E+03	1.42E-01	2.60E+03	1.90E-01	3.50E+03	2.98E-01
7.96E+02	8.13E-02	1.70E+03	1.42E-01	2.60E+03	1.90E-01	3.50E+03	2.97E-01
7.98E+02	8.14E-02	1.70E+03	1.42E-01	2.60E+03	1.90E-01	3.50E+03	2.97E-01
8.00E+02	8.17E-02	1.70E+03	1.42E-01	2.60E+03	1.90E-01	3.50E+03	2.96E-01
8.02E+02	8.18E-02	1.70E+03	1.41E-01	2.60E+03	1.90E-01	3.50E+03	2.96E-01
8.04E+02	8.19E-02	1.70E+03	1.41E-01	2.61E+03	1.90E-01	3.51E+03	2.95E-01
8.06E+02	8.20E-02	1.71E+03	1.41E-01	2.61E+03	1.90E-01	3.51E+03	2.95E-01
8.08E+02	8.21E-02	1.71E+03	1.41E-01	2.61E+03	1.90E-01	3.51E+03	2.94E-01
8.10E+02	8.22E-02	1.71E+03	1.41E-01	2.61E+03	1.91E-01	3.51E+03	2.93E-01
8.12E+02	8.23E-02	1.71E+03	1.41E-01	2.61E+03	1.91E-01	3.51E+03	2.93E-01
8.14E+02	8.24E-02	1.71E+03	1.41E-01	2.62E+03	1.91E-01	3.52E+03	2.92E-01
8.16E+02	8.25E-02	1.72E+03	1.40E-01	2.62E+03	1.91E-01	3.52E+03	2.91E-01
8.18E+02	8.25E-02	1.72E+03	1.40E-01	2.62E+03	1.91E-01	3.52E+03	2.90E-01
8.20E+02	8.25E-02	1.72E+03	1.39E-01	2.62E+03	1.91E-01	3.52E+03	2.90E-01
8.22E+02	8.25E-02	1.72E+03	1.39E-01	2.62E+03	1.91E-01	3.52E+03	2.89E-01
8.23E+02	8.25E-02	1.72E+03	1.39E-01	2.62E+03	1.91E-01	3.53E+03	2.88E-01
8.25E+02	8.25E-02	1.73E+03	1.39E-01	2.63E+03	1.91E-01	3.53E+03	2.87E-01
8.27E+02	8.24E-02	1.73E+03	1.39E-01	2.63E+03	1.91E-01	3.53E+03	2.87E-01
8.29E+02	8.25E-02	1.73E+03	1.39E-01	2.63E+03	1.91E-01	3.53E+03	2.86E-01
8.31E+02	8.26E-02	1.73E+03	1.39E-01	2.63E+03	1.91E-01	3.53E+03	2.85E-01
8.33E+02	8.28E-02	1.73E+03	1.39E-01	2.63E+03	1.91E-01	3.53E+03	2.84E-01
8.35E+02	8.29E-02	1.74E+03	1.39E-01	2.64E+03	1.92E-01	3.54E+03	2.83E-01
8.37E+02	8.30E-02	1.74E+03	1.39E-01	2.64E+03	1.92E-01	3.54E+03	2.82E-01
8.39E+02	8.31E-02	1.74E+03	1.39E-01	2.64E+03	1.92E-01	3.54E+03	2.81E-01
8.41E+02	8.31E-02	1.74E+03	1.39E-01	2.64E+03	1.92E-01	3.54E+03	2.80E-01
8.43E+02	8.31E-02	1.74E+03	1.39E-01	2.64E+03	1.92E-01	3.54E+03	2.79E-01
8.45E+02	8.33E-02	1.75E+03	1.39E-01	2.65E+03	1.92E-01	3.55E+03	2.78E-01
8.47E+02	8.36E-02	1.75E+03	1.39E-01	2.65E+03	1.92E-01	3.55E+03	2.77E-01
8.49E+02	8.38E-02	1.75E+03	1.39E-01	2.65E+03	1.93E-01	3.55E+03	2.76E-01
8.50E+02	8.41E-02	1.75E+03	1.39E-01	2.65E+03	1.93E-01	3.55E+03	2.75E-01
8.52E+02	8.43E-02	1.75E+03	1.39E-01	2.65E+03	1.93E-01	3.55E+03	2.74E-01
8.54E+02	8.46E-02	1.75E+03	1.39E-01	2.66E+03	1.93E-01	3.56E+03	2.73E-01
8.56E+02	8.50E-02	1.76E+03	1.39E-01	2.66E+03	1.93E-01	3.56E+03	2.72E-01
8.58E+02	8.54E-02	1.76E+03	1.39E-01	2.66E+03	1.93E-01	3.56E+03	2.71E-01
8.60E+02	8.59E-02	1.76E+03	1.39E-01	2.66E+03	1.93E-01	3.56E+03	2.70E-01
8.62E+02	8.64E-02	1.76E+03	1.39E-01	2.66E+03	1.93E-01	3.56E+03	2.69E-01
8.64E+02	8.71E-02	1.76E+03	1.39E-01	2.67E+03	1.93E-01	3.57E+03	2.68E-01
8.66E+02	8.78E-02	1.77E+03	1.39E-01	2.67E+03	1.93E-01	3.57E+03	2.67E-01
8.68E+02	8.88E-02	1.77E+03	1.39E-01	2.67E+03	1.93E-01	3.57E+03	2.65E-01

8.70E+02	9.02E-02	1.77E+03	1.39E-01	2.67E+03	1.93E-01	3.57E+03	2.64E-01
8.72E+02	9.18E-02	1.77E+03	1.39E-01	2.67E+03	1.93E-01	3.57E+03	2.64E-01
8.74E+02	9.31E-02	1.77E+03	1.39E-01	2.67E+03	1.94E-01	3.58E+03	2.63E-01
8.76E+02	9.33E-02	1.78E+03	1.39E-01	2.68E+03	1.94E-01	3.58E+03	2.61E-01
8.77E+02	9.24E-02	1.78E+03	1.39E-01	2.68E+03	1.94E-01	3.58E+03	2.60E-01
8.79E+02	9.11E-02	1.78E+03	1.39E-01	2.68E+03	1.94E-01	3.58E+03	2.59E-01
8.81E+02	9.00E-02	1.78E+03	1.40E-01	2.68E+03	1.94E-01	3.58E+03	2.58E-01
8.83E+02	8.94E-02	1.78E+03	1.40E-01	2.68E+03	1.94E-01	3.59E+03	2.57E-01
8.85E+02	8.89E-02	1.79E+03	1.40E-01	2.69E+03	1.94E-01	3.59E+03	2.56E-01
8.87E+02	8.85E-02	1.79E+03	1.40E-01	2.69E+03	1.94E-01	3.59E+03	2.55E-01
8.89E+02	8.82E-02	1.79E+03	1.40E-01	2.69E+03	1.94E-01	3.59E+03	2.54E-01
8.91E+02	8.81E-02	1.79E+03	1.41E-01	2.69E+03	1.94E-01	3.59E+03	2.53E-01
8.93E+02	8.80E-02	1.79E+03	1.41E-01	2.69E+03	1.94E-01	3.59E+03	2.51E-01
8.95E+02	8.80E-02	1.80E+03	1.41E-01	2.70E+03	1.95E-01	3.60E+03	2.50E-01
8.97E+02	8.80E-02	1.80E+03	1.41E-01	2.70E+03	1.95E-01	3.60E+03	2.49E-01
8.99E+02	8.80E-02	1.80E+03	1.41E-01	2.70E+03	1.95E-01	3.60E+03	2.48E-01
9.01E+02	8.82E-02	1.80E+03	1.41E-01	2.70E+03	1.95E-01	3.60E+03	2.47E-01
9.03E+02	8.83E-02	1.80E+03	1.41E-01	2.70E+03	1.95E-01	3.60E+03	2.47E-01
9.04E+02	8.85E-02	1.81E+03	1.41E-01	2.71E+03	1.95E-01	3.61E+03	2.46E-01
9.06E+02	8.87E-02	1.81E+03	1.41E-01	2.71E+03	1.95E-01	3.61E+03	2.45E-01
9.08E+02	8.88E-02	1.81E+03	1.41E-01	2.71E+03	1.95E-01	3.61E+03	2.44E-01
9.10E+02	8.90E-02	1.81E+03	1.41E-01	2.71E+03	1.95E-01	3.61E+03	2.43E-01
9.12E+02	8.91E-02	1.81E+03	1.41E-01	2.71E+03	1.95E-01	3.61E+03	2.43E-01
9.14E+02	8.94E-02	1.81E+03	1.41E-01	2.72E+03	1.96E-01	3.62E+03	2.42E-01
9.16E+02	8.96E-02	1.82E+03	1.42E-01	2.72E+03	1.96E-01	3.62E+03	2.41E-01
9.18E+02	8.99E-02	1.82E+03	1.42E-01	2.72E+03	1.96E-01	3.62E+03	2.40E-01
9.20E+02	9.00E-02	1.82E+03	1.42E-01	2.72E+03	1.96E-01	3.62E+03	2.40E-01
9.22E+02	9.02E-02	1.82E+03	1.42E-01	2.72E+03	1.96E-01	3.62E+03	2.39E-01
9.24E+02	9.03E-02	1.82E+03	1.42E-01	2.72E+03	1.96E-01	3.63E+03	2.40E-01
9.26E+02	9.05E-02	1.83E+03	1.42E-01	2.73E+03	1.96E-01	3.63E+03	2.39E-01
9.28E+02	9.07E-02	1.83E+03	1.43E-01	2.73E+03	1.96E-01	3.63E+03	2.38E-01
9.30E+02	9.10E-02	1.83E+03	1.43E-01	2.73E+03	1.96E-01	3.63E+03	2.37E-01
9.31E+02	9.14E-02	1.83E+03	1.43E-01	2.73E+03	1.96E-01	3.63E+03	2.36E-01
9.33E+02	9.16E-02	1.83E+03	1.43E-01	2.73E+03	1.97E-01	3.64E+03	2.36E-01
9.35E+02	9.19E-02	1.84E+03	1.43E-01	2.74E+03	1.97E-01	3.64E+03	2.36E-01
9.37E+02	9.21E-02	1.84E+03	1.43E-01	2.74E+03	1.97E-01	3.64E+03	2.36E-01
9.39E+02	9.24E-02	1.84E+03	1.44E-01	2.74E+03	1.97E-01	3.64E+03	2.36E-01
9.41E+02	9.27E-02	1.84E+03	1.44E-01	2.74E+03	1.97E-01	3.64E+03	2.36E-01
9.43E+02	9.30E-02	1.84E+03	1.44E-01	2.74E+03	1.97E-01	3.64E+03	2.36E-01
9.45E+02	9.33E-02	1.85E+03	1.44E-01	2.75E+03	1.97E-01	3.65E+03	2.35E-01
9.47E+02	9.36E-02	1.85E+03	1.44E-01	2.75E+03	1.97E-01	3.65E+03	2.35E-01
9.49E+02	9.39E-02	1.85E+03	1.44E-01	2.75E+03	1.97E-01	3.65E+03	2.34E-01
9.51E+02	9.42E-02	1.85E+03	1.44E-01	2.75E+03	1.97E-01	3.65E+03	2.34E-01
9.53E+02	9.46E-02	1.85E+03	1.45E-01	2.75E+03	1.97E-01	3.65E+03	2.34E-01
9.55E+02	9.49E-02	1.86E+03	1.45E-01	2.76E+03	1.97E-01	3.66E+03	2.34E-01
9.57E+02	9.53E-02	1.86E+03	1.45E-01	2.76E+03	1.98E-01	3.66E+03	2.33E-01
9.58E+02	9.56E-02	1.86E+03	1.45E-01	2.76E+03	1.98E-01	3.66E+03	2.33E-01

Table C22. pH of water moving by saturated flux

Flux type	Depth	Biochar	Average	Flux-weighted
	m	t ha ⁻¹	pH	average pH
Saturated (zero tension)	0.15	0	6.09	6.14
		20	5.28	5.84
	0.3	0	6.01	5.79
		20	5.93	5.76
	0.6	0	4.66	4.61
		20	4.74	4.64
	1.2	0	7.22	7.18
		20	7.56	7.56