Helping to keep agriculture, New York's largest industry, competitive in today's ever changing foreign and domestic market is the goal of the New York State Agricultural Experiment Station. Whether it be in the form of a major breakthrough or the continuing accumulation of results, Geneva Station researchers continue to be a key ingredient in meeting the market and production challenges of agriculture. The Geneva Station has been a part of Cornell University's College of Agriculture and Life Sciences since 1923 and is a vital part of its research and extension efforts in agriculture.

With its 70 faculty members plus a full-time support staff of some 260 people, the Geneva Station is charged with conducting research on the production and processing of fruits and vegetables. While a large part of the 120 research projects conducted at the Station is done in laboratories, the some 900 acres also serve as a laboratory for demonstration and experiments on new and improved crops and production techniques. There are also two outlying laboratories operated by the Station. One of these is located at Fredonia, south of Buffalo, and the other laboratory is in the Hudson Valley at Highland.

Although the Station is a horticultural research institute, many of its faculty have extension-type responsibilities. Working closely with growers and processors is critical to the success of the Station's research program. As it enters its second century of serving the $2 billion processing fruit and vegetable industry, the Geneva Station continues to be recognized worldwide, as a leader in agricultural research. By blending applied and basic research and combining new and old techniques, the Station is successful in meeting its objective of developing and delivering useful information to growers and processors.

How to Obtain Publications

Search: Agriculture, the series that replaced the former Cornell Memoirs and the Geneva Station's Technical Bulletins, comprises reports of basic research and is available to persons and institutions engaged in research and to libraries. The publications listed here are mainly of a technical nature. The Search series numbers are used by both Ithaca and Geneva researchers.

New York's Food and Life Sciences Bulletin replaces the former Cornell Experiment Station Bulletins and the Geneva Research Circulars.

The Special Report Series is published only at the Geneva Agricultural Experiment Station and is unique to research conducted at Geneva. This series is of interest to researchers and the general public alike.

Single copies of publications are available free of charge to residents of New York State, to nonresident agribusiness people, and to non-residents engaged in research. The charge per bulletin for multiple copies is listed. Exceptions are all publications marked with a star (*); those have no free distribution.

Geneva's Bulletin Room keeps supplies of only the Geneva Station's publications. Use the form at the back of this list to order publications. Postage stamps are acceptable for payment of sums less than $1.00. Checks and money orders should be made payable in U.S. dollars to the New York State Agricultural Experiment Station (NYSAES).

Explanation of Symbols:

G - Geneva General Bulletin
Misc (Geneva) - Miscellaneous Publication
RC - Research Circular
SpR - Special Report
FLS - New York's Food and Life Sciences Bulletin
Sch - Search: Agriculture
GF - Grape Facts
ENTOMOLOGY

G 823  Moth activity in Hudson Valley Orchards: Trapping records of seven pest species Dean, 1989 (50)
G 828  Biology of the European chafer in northeastern United States Tashiro, Gyrisco, Gambrell, Flori, and Breltefeld, 1969 (75)
SpR37  A bibliography of the seed maggots Hylemya spatura and H. florilega (Diptera: Anthomyiidae) Throne, 1980 (65)
FLS50  Green fruitworms Chapman and Lienk, 1974 (1.00)
FLS58  Growth stages in fruit trees, from dormant to fruit set. Chapman and Catlin, 1976 (2.00) NO
FREE DISTRIBUTION
FLS70  Using sticky traps to monitor fruit flies in apple and cherry orchards Leeper, 1978 (75)
FLS71  Evaluation of pesticides against the European red mite, apple rust mite, and two mite predators in 1976-1977 Lienk, Minns, and Labanowska, 1978 (80)
FLS72  Simplified rearing and bioassay for the seedcorn maggot, Hylemya platurna (Meigen) Webb and Eckenrode, 1978 (75)
FLS79  The onion maggot and its control in New York Ellis and Eckenrode, 1979 (50)
FLS85  Extension-based tree-fruit insect pest management strategies for apple and pear Leeper, 1980 (50)
FLS87  Predicting cabbage maggot flights in New York using common wild plants Pedersen and Eckenrode, 1980 (1.00)
FLS88  Extension based tree and small fruit insect pest management strategies Leeper, 1980 (85)
FLS90  SCAMP - A computer-based information delivery system for cooperative extension Sarette, Tette, and Barnard, 1980 (80)
FLS95  Bitter spot of apple Burr, 1982 (40)
FLS101  Cabbage growth stages Andaloro, Rose, Shelton, Hoy, and Becker, 1983 (40)
FLS102  Patterns of pesticide use on New York state produced sweet corn Straub and Heath, 1983 (40)
FLS104  Chem-News, an on-line pesticide information program Smith, Carruthers, and Barnard, 1983 (75)
FLS106  An improved screen cone trap for monitoring activity of flying insects Throne, Robbins, Eckenrode, 1984 (70)
FLS108  Diagnostic keys for identification of diseases on apple, peach, and cherry trees in the Northeastern United States Schwarz and Burr, 1984 (70)
FLS118  Preventing decomposition of agricultural chemicals by alkaline hydrolysis in the spray tank Seaman and Riedl, 1986 (75)
FLS120  Assessing the risk of Grape Berry Moth attack in New York vineyards Hoffman and Dennehy, 1987 (75)
FLS121  Effect of Winter Storage on Thrips Damage to Cabbage Stoner and Shelton, 1988 (75)
FLS122  Laboratory rearing of the imported cabbageworm Webb and Shelton, 1988 (75)
FLS123  Basing European red mite control decisions on a census of mites can save control costs Nyrop and Reisag, 1988 (75)
FLS124  Insects associated with apple in the Mid-atlantic States Brown, Adler, and Welres, 1988 (75)
FLS128  The effects of ground cover manipulations on pest and predator mite populations on apple in Eastern New York Smith, Stiles, Weires, 1989 (75)
FLS129  Etephon Growth Regulator as a Potential Tool for Managing Excessive Height in Sweet Corn Hybrids Straub, 1989 (75)
FLS135  Pheromonal Control of the Grape Berry Moth: An Effective Alternative to Conventional Insecticides Dennehy, Clark, Kamts, 1991 (1.00)
Sch-Vol 2, #4  The role of nutrition in alary polymorphism among the Aphididae: An overview Schaefers, 1972 (45)
Sch-Vol 2, #11  A continuing search for effective cabbage maggot control in New York Eckenrode, 1972 (45)
Sch-Vol 2, #19  Aspects of the biology of the gray garden slug (Deroceras reticulatum Muller) Judge, 1972 (55)
Sch-Vol 3, #9  Evaluation of soil applied systemic insecticides on insects of white birch in nurseries Tashiro, 1972 (55)
Sch-Vol 4, #8  The white apple leafhopper in New York: Insecticide resistance and current control status Trammel, 1974 (55)
Sch-Vol 6, #4  The importance of defining lepidopteran pheromone blends Roelofs, 1976 (50)
Sch-Vol 6, #9  Effectiveness of various materials against the green house whitefly at Geneva, New York Schaefers and Lienk, 1976 (70)
Sch-Vol 7, #1  Seasonal occurrence of the European corn borer, (Ostrinia nubilalis) Hubner, in the Hudson Valley District of New York Straub, 1976 (70)
Sch-Vol 9, #4  Integrated mite control in Hudson and Champlain Valley apple orchards Weires, McNicholas, and Smith, 1976 (50)
Sch-Vol 9, #6  Reduced spray programs for apple pests in the Champlain and Hudson Valleys Weires, McNicholas, Smith, Schadt, and Watres, 1976 (55)
Sch 6  Phytophagous and predacious mites on apple in New York Lienk, Watze, and Weires, 1980 (55)
Sch 14  Flight Periods of Adults of Cutworm, Armyworm, Loopers, and Others (family Noctuidae) injurious to
Vegetable and Field Crops  Chapman and Lienk, 1981 (.20) NO FREE DISTRIBUTION

Sch 27  Effects of soil-applied postplant insecticides and nematicides on the pest complex and growth habits of
young apple trees  Weltes, Forshey, and Arneson, 1984 (.50)

Sch 29  Suppressing onion maggot in commercial fields and research plots, and monitoring with air thermal unit
accumulations  Andaloro, Rose, and Eckenrode, 1984 (.50)

Sch 31  Evaluations of selected cucurbita accessions for cucumber beetle complex resistance  Baker and R.
Robinson, 1985 (.50)

Sch 36  Biology of the Codling Moth in Hudson Valley orchards  Dean (forward by Weltes), 1989 (.50)

SpR 42  Organic toxicants and pathogens in sewage sludge and their environmental effects  Babish, Lisk,
Stoewsand, and Wilkinson, 1981 (.50)

SpR 45  European corn borer, identification, monitoring, flight patterns and control  Andaloro, Eckenrode,
Robbins, Muka, Rose, Willison, and Becker, 1982 (.50)

FOOD SCIENCE AND TECHNOLOGY

SpR 1  Vineyard and cellar notes  1968-69  Robinson, Bertino, Einset, and Kimball, 1970 (.45)

SpR 5  Nutrition in the '70s - Fifth annual symposium, Western New York State Institute of Food Technologists,
1970 (.55)

SpR 8  Homemade fruit juice press  Downing, 1972 (.40)

SpR 9  Environmental contaminants in foods - sixth annual symposium, Western New York State Institute of
Food Technologists, 1972 (.45)

SpR 11  1972 Sauerkraut seminar - National Kraut Packers Assoc., 1973 (.45)

SpR 13  Fungi and foods - seventh annual symposium, Western New York State Institute of Food Technologists,
1973 (.50)

SpR 16  Fermented foods: current science and technology - eighth annual symposium, Western New York State
Institute of Food Technologists, 1974 (.50)

SpR 17  1974 Sauerkraut seminar - National Kraut Packers Association, 1974 (.60)

SpR 18  Trends in packaging - ninth annual symposium, Western New York State Institute of Food
Technologists, 1975 (.60)

SpR 21  The role of fiber in the diet - tenth annual symposium, Western New York State Institute of Food
Technologists, 1976 (1.40)

SpR 22a  1958-1973 vineyard and cellar notes  Pool, Einset, Kimball, Watson, Robinson, and
Bertino, 1976 (1.20)

SpR 24  1975 Sauerkraut seminar - National Kraut Packers Association, 1977 (.75)

SpR 25  Working with government regulations, eleventh annual symposium, Western New York Institute of Food
Technologists, 1976 (.80)

SpR 26  1977 Nutrition Council seminar, 1977 (1.00)

SpR 27  1977 Apple seminar, 1977 (.50)

SpR 28  Proceedings - apple and pear scab workshop, 1978 (1.00)

SpR 29  Energy conservation and economics - twelfth annual symposium, 1978 (1.00)

SpR 30  1978 Sauerkraut seminar  Downing, ed., 1978 (.60)

SpR 31  Controlling microorganisms in food processing  Downing, ed., 1979 (.80)

SpR 32  Hard cider workshop  Downing, ed., 1979 (.75)

SpR 33  Farm winery workshop  Downing, ed., 1980 (.75)

SpR 34  Update on antimicrobial agents, fourteenth annual symposium  Downing, ed., 1980 (.75)

SpR 38  1980 Sauerkraut seminar - National Kraut Packers Association  Downing, ed., 1981 (1.00)

SpR 40  The retort pouch - 1980s - fifteenth annual symposium, 1981 (.75)

SpR 44  Basic statistics, sixteenth annual symposium, Western New York Section - IFT, 1982 (90)

SpR 46  1982 Sauerkraut seminar  Downing, ed., 1982 (.80)

SpR 48  New technology for the food industry, 1983 (80)

SpR 50  Processed apples - research report for 1983  Downing, ed., 1983 (1.00)

SpR 51  Computer use in the food industry - a symposium  Downing, ed., 1983 (.80)

SpR 53  Gum and starch technology - Eighteenth annual symposium  Downing, ed., 1984 (1.25)

SpR 54  Apple juice workshop  Downing, ed., 1984 (1.25)

SpR 56  1984 Sauerkraut seminar  Downing, ed., 1985 (1.25)

SpR 57  1985 Processed apple products workshop  Downing, ed., 1985 (70)

SpR 58  Trends in packaging  Downing and Hotchkiss, 1985 (1.25)

SpR 59  Sensory evaluation, twentieth annual symposium, November 21, 1985  Downing, ed., 1986 (.75)

SpR 60  Rapid microbiological methods, twenty-first annual symposium, Downing, ed., 1987 (.75)

SpR 61  1987 Sauerkraut Seminar  Becker and Downing, ed., 1987 (.75)

SpR 62  New horizons in the food industry  Downing, ed., 1988 (75)

(.75)

SpR 64  Refrigerated Foods and Emerging Pathogens. Twenty-fourth Annual Symposium,IFT. November 1989.
Downing, ed., 1990 (.75)

FLS 1  Free sugars in fruits and vegetables  Lee, Shallenberger, and Vittum, 1970 (.40)

FLS 4  Concentration of liquid foods in a pilot-scale falling film evaporator  Saravacos, Moyer, and
Wooster, 1970 (.40)

FLS 11  Handling of red tart cherries for processing - A review  Downing, Huehn, and LaBella, 1971 (40)

FLS 12  Physical treatments of food processing wastewaters  Saravocos and Iredale, 1971 (.40)

FLS 66  Experimental wine production  Nelson, Acree, Robinson, Pool, and Bertino, 1977 (.70)
FLS 84  Dietary vegetable and environmental health  Stoewsand and Babish, 1979 ( .50 )
FLS 126  Vegetables as a major Vitamin A source in our diet.  Cooperative Regional Research Project NE-116 Lee, Simpson, and Gerber, 1989 ( .75 )
Sch-Vol 2, #3  Experimental distillation of New York State wines  Saravacos and Iredale, 1972 ( .45 )
Sch-Vol 3, #5  A comparison of the amino acid and nitrogen content of pods and seeds of beans (Phaseolus vulgaris ) Hackler and Dickson, 1973 ( .50 )
Sch-Vol 6, #5  Methodology for estimating heat losses in food processing plants  Rao, 1976 ( .75 )
Sch 28  Energy consumption for processing and packaging of apple products  Anantheswaran, Rao, and Cooley, 1984 ( .50 )

HORTICULTURAL SCIENCES

FRUIT:

Apples:

G 817  Propagating fruit trees in New York  Way, Dennis, and Gilmer, 1967 ( .50 )
RC 12  Jonsgold and Spijon: two new apples from Geneva  Way, LaBelle, and Einset, 1968 ( .20 )
RC 15  Tree spacing in relation to orchard production efficiency  Cain, 1969 ( .25 )
Spr 3  Pollination arrangements in new apple plantings  Way, 1970 ( .25 )
Spr 7  Early apple varieties  Way, 1972 ( .25 )
FLS 9  Predicting harvest size of McIntosh apples  Forshey, 1971 ( .40 )
FLS 15  Sloting saw pruning of hedgerow apples improves production and quality  Cain, 1972 ( .40 )
FLS 47  Burgundy: an early fall, red dark apple  Way and Lamb, 1974 ( .50 )
FLS 53  Empire: a high quality dessert apple  Way, 1975 ( .50 )
FLS 64  Factors affecting chemical thinning of apples  Forshey, 1976 ( .70 )
FLS 65  McIntosh apple crop prediction - grower sampling instructions  Forshey, 1977 ( .55 )
FLS 73  Liberty: a new disease-resistant apple  Lamb, Aldwinckle, Way, and Terry, 1978 ( .60 )
FLS 78  Apple varieties grown in New York State  Way, 1979 ( .55 )
FLS 99  Early Cortland and Geneva early apples  Way, Livermore, and Aldwinckle, 1982 ( .40 )
FLS 103  'Freedom': a new disease-resistant apple  Lamb, Aldwinckle, Terry, 1983 ( .50 )
FLS 116  Chemical thinning of apples  Forshey, 1986 ( .75 )
FLS 133  'Northern Lights' Apple  Way, Brown, and Livermore. 1990. ( .75 )
FLS 134  'ROYAL EMPIRE™ APPLE, A highly colored sport of 'Empire'.  Brown, Way, Teeple. 1990 (1.00)
Sch-Vol 2, #7  Hedgerow orchard design for most efficient interception of solar radiation. Effects of tree size, shape, spacing, and row direction  Cain, 1972 ( .45 )

Cherries:

FLS 37  Cherry varieties in New York State  Way, 1974 ( .50 )
FLS 98  Kristin sweet cherry  Way, Ystaas, Livermore, Lamb, 1982 ( .40 )
FLS 127  Sweet and tart cherry varieties: descriptions and cultural recommendations  Brown, Way, and Terry, 1989 ( .75 )

Grapes:

G 821  Growing Cold-Tender Grape Varieties in New York  Shaulis, Einset, and Pack, 1968 ( .50 )
FLS 21  Lakemont and Suffolk seedless grapes named Einset, 1972 ( .45 )
FLS 22  Cayuga White, the first of a Finger Lakes series of wine grapes for New York  Einset and Robinson, 1972 ( .45 )
FLS 45  Resistant rootstocks for New York vineyards  Lider and Shaulis, 1974 ( .50 )
FLS 68  Canadice and Glenora seedless grapes named Pool, Kimball, Watson, and Einset, 1977 ( .55 )
FLS 80  Grape varieties for New York State  Pool, Kimball, Watson, and Einset, 1979 ( .50 )
FLS 89  Resistant seedless grape  Pool, Ramally, Reisch, Watson, and Kimball, 1981 ( .30 )
FLS 96  Horizon grape  Reisch, Robinson, Kimball, Pool, Watson, 1982 ( .50 )
FLS 109  A method for large scale in vitro propagation of vitis  Chee, Pool, Bucher, 1984 ( .75 )
FLS 112  'Melody' Grape  Reisch, Pool, Watson, Robinson, and Cottrell, 1985 ( .75 )
FLS 113  'Einset Seedless' Grape  Reisch, Remally, Pool, and Watson, 1985 ( .75 )
FLS 131  Shoot Positioning Native American (Concord Type) Grape Vines  Pool, Dunst, Kamas, Gunekel, and Goffinet, 1990. ( .75 )
GF 1,2  Managing Weeds in New York Vineyards. II. Chemical Control of Vineyard Weeds  Senesac, Dunst, and Pool. 1990. ( .75 )
GF 1,3  Managing Weeds in New York Vineyards. III. Pre-Emergence Herbicides  Dunst, Senesac, and Pool. 1990. ( .75 )
Damage to grapevines by fossil fuel wastes and pollutants Musselman, Shaulls, and Kender, 1980 (.60)

**Peaches:**
- FLS 23
- FLS 34
- FLS 117
- RC 19
- FLS 35
- FLS 61
- FLS 97
- FLS 111
- FLS 125

**Strawberries:**
- FLS 24
- FLS 83
- FLS 107
- FLS 114
- FLS 125

**Raspberries:**
- RC 19
- FLS 35
- FLS 61
- FLS 97
- FLS 111
- FLS 125

**Misc.:**
- FLS 26
- FLS 30
- FLS 48
- FLS 76
- FLS 91
- FLS 100

**Vegetables:**

**Peaches:**
- Plant response to concentrated superphosphate and potassium chloride fertilizers: I. Pea Peck and MacDonald, 1969 (.40)
- Purple blight - a physiological disorder of pea Schroeder, Peck, and Vittum, 1979 (.50)

**Elderberry culture in New York State Way, 1981 (.35)

**Apricots for New York State Lamb, Stiles, 1983 (.40)

**Vegetables:**

**Beans:**
- Relationship between the size and performance of snap bean seeds Clark and Peck, 1968 (.40)
- Nature of the stringy pod rogue of snap bean, and nature of the flat pod rogue of snap beans Atkin and Robinson, 1972 (.45)
- Plant response to concentrated superphosphate and potassium chloride fertilizers: V. Snap Bean Peck and Van Buren, 1975 (.90)

**Other (Horticultural Sciences):**
- Bitter flavor in carrots: II. Progress on field and storage experiments Atkins, 1956 (.40)
- Growing degree days Dethier and Vittum, 1962 (1.00)
- Principles and methods of testing alalfa seed for varietal purity Nittler, McGee, and Newcomer, 1964 (.40)
- Plant response to concentrated superphosphate and potassium chloride fertilizers: III. Cabbage Peck and Stamer, 1970 (.40)
- Ornamental introductions of the past - all still used (II) Dolan, 1978 (.50)
- Characteristics and forage yield of red clover accessions Dolan, Oughterson, and Tolley, 1980 (.40)
- Characteristics and forage yield of white clover accessions Dolan, Oughterson, and Tolley, 1980 (.40)
- What are the odds on maximum and minimum temperatures in New York State? Vittum, Barnard, and Gibbs, 1981 (1.25)
- Progress in the evaluation of use of plant germplasm in the Northeast 1965-1973 Dolan and Sherring, 1981 (.75)
Progress in the evaluation of use of plant germplasm in the Northeast 1974-1979 Dolan and Sherrington, 1982 (10)

Minimum and maximum temperatures and record periods of warm and cold, wet and dry weather at Geneva, NY Vittum, Gibbs, and Barnard, 1983 (1.00)


The potentiometric determination of nitrate and chloride in plant tissue Cantliffe, MacDonald, and Peck, 1970 (0.40)

Vegetable crop fertilization Peck, 1975 (50)

Discovery of a new role for cytokinins in seed dormancy and germination Khan, Heit, Waters, Anojulu, and Anderson, 1971 (0.40)

Understanding plant physiology and other branches of mathematics Drury, 1972 (0.40)

Table beet and nitrogen Peck, Cantliffe, Shallenberger, and Bourke, 1974 (0.75)

Plant response to concentrated superphosphate and potassium chloride fertilizers: VI. Sweet Corn Peck and Macdonald, 1975 (0.70)


Soil and air temperature at Geneva, New York Gibbs, Barnard, Peck, and Vittum, 1980 (0.50)

Plant response to concentrated superphosphate and potassium chloride fertilizers: VII. Additions and removals of P and K in a vegetable-alfalfa rotation, 1963-1972 Peck, 1980 (0.60)

Use of seedling characteristics in testing trefoil seed for varietal purity Nittler, 1981 (0.80)

Soil Productivity and Vegetables Peck and Taylor, 1988

PLANT PATHOLOGY

White mold of beans in New York Abawi and Hunter, 1979 (0.85)

Biology and control of Cytospora fungi in peach plantings Rosenberger, 1982 (0.40)

'Freedom' a disease-resistant apple Lamb, Aldwinckle, and Terry, 1983 (0.50)

Root rot of snap beans in New York State Abawi, Crosier, Cobb, and Becker, 1985 (0.50) NO FREE DISTRIBUTION

Root Rot of Table Beets in New York State Abawi, Crosier, Cobb, and Becker (2.00) NO FREE DISTRIBUTION

Control of halo blight of bean by foliage sprays Nattl, 1971 (0.50)

Brown rot of stone fruits. Progress in control with fungicides Szkolnick, 1973 (0.50)

Pest problems associated with the decline of peach trees in the Hudson Valley of New York Pearson and Weltes, 1976 (0.50)

Two computer programs used in the analysis of rectangular and circular charts from continuously recording weather instruments Blume, Seem, and Barnard, 1979 (0.55)

Proceedings, brown rot of stone fruit workshop, 1985 (1.25)
Please send me the following publications (Please print or type)

<table>
<thead>
<tr>
<th>Letter and Number</th>
<th>Title</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Name__________________________
Street_________________________
City_________________ State____ Zip_____

Enclosed is my check/money order in the amount of $_____ payable to "New York State Agricultural Experiment Station".