SUMMAR

NEW YORK ORGANIC DAIRY FARMS 2010



Wayne A. Knoblauch Richard K. Overton Linda D. Putnam Cathryn Dymond

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For additional copies, please contact:

Linda Putnam Cornell University Charles H. Dyson School of Applied Economics and Management 216 Warren Hall Ithaca, NY 14853-7801

E-mail: ldp2@cornell.edu Fax: 607-255-1589 Voice: 607-255-8429

Or visit:

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2010 NEW YORK ORGANIC DAIRY FARM BUSINESS SUMMARY

INTRODUCTION

Dairy farm operators throughout New York State submit business records for summarization and analysis through Cornell Cooperative Extension's Farm Business Management Program. Averages from a compilation of the individual farm reports are published in three regional summaries and in one statewide summary.¹

Accrual procedures have been used to provide the most accurate accounting of farm receipts and farm expenses for measuring farm profits. An explanation of these procedures is found on pages 3-5. Three measures of farm profits are calculated on pages 6 and 7. The balance sheet, statement of owner equity, and cash flow statement are featured on pages 8-15. The dairy program analysis includes data on the costs of producing milk (pages 18 and 19).

This New York Organic Dairy Farm Business Summary is an average of 17 businesses that are certified organic dairy farms. The farm income, financial summary, and business analysis sections of this report include comparisons with average data for 113 non-organic dairy farms in New York that are similar in size and location to the organic farms. This report is prepared in workbook form for organic dairy farm operators to use in the systematic study of their farm business operations.

Use Comparative Data With Caution

Care should be exercised when using average data from the 17 organic farms. Management styles and length of time producing and selling organic products varies between individual producers. We are presenting this data as an average of the farms that have a wide range of herd size and therefore have a significant variance in some of the management factors employed. If you are planning to use this data for benchmarking purposes, please use caution and factor in your particular management style for your herd size. The comparisons of averages between organic and non-organic producers is meant for information only and should not be used as the only factor to determine if your farm operation would benefit from the production of organic milk.

¹Wayne A. Knoblauch, Linda D. Putnam, Jason Karszes, Richard Overton, Cathryn Dymond, <u>Dairy Farm Management Business Summary</u>, New York State, 2010, R.B. 2011-03, November 2011.

SUMMARY AND ANALYSIS OF THE FARM BUSINESS

Business Characteristics and Resources Used

Recognition of important business characteristics and identification of the farm resources used are necessary for evaluating management performance. The combination of resources and management practices is known as farm organization. Important farm business characteristics, the number of farms reporting these characteristics, and a listing of the average labor, land, and dairy cattle resources used are presented in the following table.

BUSINESS CHARACTERISTICS AND RESOURCES USED 17 New York Organic Dairy Farms, 2010

Type of Business	Number	Milking Frequency	Nu	mber
Single proprietorship	12	2 times a day	110	16
Partnership	1	3 times a day		0
Limited liability corporation	2	Other		1
Subchapter S or C corporation	2			
T		Breed of Herd	My Farm	Percent
		Holstein		49
Milking System	<u>Number</u>	Jersey		18
Dumping station	0	Other		33
Pipeline	8			
Herringbone parlor	3	Labor Force*	My Farm	Average
Other parlor	6	Operator 1	mo.	13.6
•		Operator 2	mo.	9.5
Type of Barn	<u>Number</u>	Family paid	mo.	2.0
Stanchion	6	Family unpaid	mo.	1.2
Freestall	10	Hired	mo.	<u>23.9</u>
Combination	1	Total	mo.	50.3
		Worker equivalent		
Dairy Records Service	<u>Number</u>	$(total \div 12)$		4.19
Testing service	10			
On-farm system	1	Operator/Manager Equivalent		1.72
Other	0			
None	6	<u>Land Use</u>	My Farm	<u>Average</u>
		Total owned acres		411
Business Record System	<u>Number</u>	Total tillable acres (owned + rented)		549
Account book	6			
Accounting service	1	Number of Cows	My Farm	<u>Average</u>
On-farm computer	10	Beg. year (owned)		126
Other	0	End year (owned & leased)		138
		Average for year (owned & leased)		130

^{*}Based on hours actually worked by owner/operator, instead of standard 12 months per full-time owner/operator. The standard 12 months is used for operator/manager equivalent when calculating labor and management income per operator.

Predominate business characteristics of the 17 organic dairy farms include the single proprietorship, parlor milking system, freestall barn, two time a day milking, herd records with a testing service, and an on-farm computer record system.

The average size of the labor force on the organic dairy farms was similar to the 3.84 worker equivalent on non-organic dairy farms. The organic dairy farms averaged 549 tillable acres compared to 347 tillable acres on the 113 non-organic dairy farms. The non-organic dairy farms averaged 34 cows per worker, and the organic dairy farms averaged 31 cows per worker. In 2010, the non-organic dairy farms used labor resources more efficiently than the organic dairy farms when comparing pounds of milk sold per worker.

Income Statement

The accrual income statement begins with an accounting of all farm business expenses.

CASH AND ACCRUAL FARM EXPENSES 17 New York Organic Dairy Farms, 2010

		Change in		Change in		
T	Cash	Inventory or		Accounts	Accrual	Percent
Expense Item	Paid	- Prepaid Exp.	+	Payable	= Expenses	of Total
Hired Labor	\$ 77,030	\$ 36	<<*	\$ 108	\$ 77,102	19
<u>Feed</u>						
Dairy grain & concentrate	79,869	-4,360		-665	83,564	20
Dairy roughage	2,856	-457		794	4,107	1
Nondairy feed	305	0		0	305	<1
Professional nutritional services	195	0	<<	0	195	<1
Machinery						
Machinery, hire, rent & lease	17,195	0	<<	1,928	19,123	5
Mach. repair & farm vehicle exp.	36,188	0		1,742	37,930	9
Fuel, oil & grease	26,995	284		-97	26,613	7
Livestock	- ,				-,-	
Replacement livestock	1,734	0	<<	0	1,734	<1
Breeding	6,288	-31		-24	6,295	2
Veterinary & medicine	8,664	86		2	8,580	2
Milk marketing	9,288	0	<<	88	9,376	2
Bedding	3,700	-117		-150	3,667	1
Milking supplies	10,971	-42		16	11,029	3
Cattle lease & rent	443	0	<<	0	443	<1
Custom boarding	1,599	0	<<	0	1,599	<1
Livestock professional fees	2,333	0	<<	0	2,333	1
Other livestock expense	3,603	-9		0	3,612	1
Crops	3,003	-)		U	3,012	1
Fertilizer & lime	6,211	-3,279		260	9,750	2
Seeds & plants	10,775	468		-946	9,361	2
Spray, other crop expense	2,127	0		0	2,127	1
	531	0		0	531	
Crop professional fees	331	U	<<	U	331	<1
Real Estate Land, building & fence repair	12 205	760		-176	12 971	2
	12,285	-762			12,871	3
Taxes Rent & lease	13,033	0	<<	1,186	14,219	3 3
	13,706	0	<<	0	13,706	3
Other	7.077	0		0	7.077	2
Insurance	7,077	0	<<	0	7,077	2
Utilities (farm share)	12,864	0	<<	15	12,879	3
Interest paid	18,188	0	<<	0	18,188	4
Other professional fees	5,030	0	<<	0	5,030	1
Miscellaneous	5,874	<u>-95</u>		<u>-5</u>	<u>5,964</u>	<u>l</u>
Total Operating	\$396,956	\$ -8,277		\$ 4,076	\$ 409,309	100
Expansion livestock	\$ 713	\$ 0	<<	\$ 0	\$ 713	
Extraordinary expense	3,346	0	<<	5,154	8,500	
Machinery depreciation					47,265	
Building depreciation					21,631	
TOTAL ACCRUAL EXPENSES					\$ 487,419	

^{*}A change in prepaid expense is noted by <<.

<u>Cash paid</u> is the actual amount of money paid out during the year and does not necessarily represent the cost of goods and services actually used.

<u>Change in inventory</u>: An increase in inventory is subtracted in computing accrual expenses because it represents purchased inputs not actually used during the year. A decrease in inventory is added to expenses because it represents the cost of inputs purchased in a prior year and used this year.

<u>Changes in prepaid expenses</u> apply to non-inventory categories (noted by << in the tables). Include any expenses that have been paid for in advance of their use, for example, 2011 rent paid in 2010. A positive change is the amount the prepayment account increased from beginning to end year, a negative change indicates a decline in the account.

<u>Change in accounts payable</u>: An increase in payables is added and a decrease is subtracted when calculating accrual expenses.

Accrual expenses are the costs of inputs actually used in this year's production.

Worksheets are provided to enable any dairy farm operator to compute his or her accrual farm expenses and compare them with the averages on the previous page.

CASH AND ACCRUAL FARM EXPENSES WORKSHEET

Expense Item	Cash Paid	Change in Inventory or - Prepaid Exp.	+	Change Account Payable	ts	Accrual Expenses
				•		•
Hired Labor	\$	\$	<<*	\$	\$	
Feed						
Dairy grain & concentrate						
Dairy roughage						
Nondairy feed Professional nutritional services						
			<<			
Machinery Machinery him ment % lease						
Machinery, hire, rent & lease			<<			
Mach. repair & farm vehicle exp.						
Fuel, oil & grease						
<u>Livestock</u>						
Replacement livestock			<<			
Breeding						
Veterinary & medicine						
Milk marketing			<<			
Bedding						
Milking supplies						
Cattle lease & rent			<<			
Custom boarding			<<			
bST expense						
Livestock professional fees			<<			
Other livestock expense						
Crops						
Fertilizer & lime						
Seeds & plants						
Spray, other crop expense						
Crop professional fees			<<			
Real Estate						
Land, building & fence repair						
Taxes			<<			
Rent & lease			<<			
<u>Other</u>						
Insurance			<<			
Utilities (farm share)			<<			
Interest paid			<<			
Other professional fees			<<			
Miscellaneous						
Total Operating	\$	\$		\$	\$	
Expansion livestock	\$	\$	<<	\$	\$	
Extraordinary expense	\$	\$	<<	\$	\$	
Machinery depreciation						
Building depreciation						
TOTAL ACCRUAL EXPENSES					\$	

^{*}A change in prepaid expense is noted by <<.

CASH AND ACCRUAL FARM RECEIPTS 17 New York Organic Dairy Farms, 2010

Receipt Item	Cash Receipts	+ Change in Inventory	+	Change in Accounts Receivable	=	Accrual Receipts
Milk Sales	\$ 529,233			\$ 6,992		\$ 536,225
Dairy cattle	17,043	\$ 25,479		-57		42,465
Dairy calves	3,008	2,282		0		5,291
Other livestock	325	2,465		0		2,790
Crops	2,180	27,485		518		30,182
Government receipts	7,693	0*		870		8,563
Custom machine work	5,147			0		5,147
Gas tax refund	244			0		244
Other	13,247			-161		13,086
- Nonfarm noncash capital**		<u>(-)</u> 0				<u>(-)</u> 0
Total Accrual Receipts	\$ 578,119	\$ 57,711		\$ 8,161		\$ 643,991

^{*}Change in advanced government receipts.

<u>Cash receipts</u> include the gross value of milk checks received during the year plus all other payments received from the sale of farm products, services, and government programs. Nonfarm income is not included in calculating farm profitability.

<u>Changes in inventory</u> are calculated by subtracting beginning of year values from end of year values <u>excluding</u> <u>appreciation</u>. Increases in livestock inventory caused by herd growth and/or quality are added and decreases caused by herd reduction and for quality are subtracted. Changes in inventories of crops grown are also calculated. Changes in advanced government receipts are calculated by subtracting the end year balance from the beginning year balance (balances are listed with the current liabilities on the Balance Sheet).

<u>Changes in accounts receivable</u> are calculated by subtracting beginning year balances from end year balances. The January milk check for this December's marketings compared with the previous January's check is included as a change in accounts receivable.

<u>Accrual receipts</u> represent the value of all farm commodities produced and services actually generated by the farm operator during the year.

CASH AND ACCRUAL FARM RECEIPT WORKSHEET

Receipt Item	Cash Receipts	+	Change in Inventory	+	Change in Accounts Receivable	=	Accrual Receipts
Milk Sales	\$				\$		\$
Dairy cattle			\$				
Dairy calves							
Other livestock							
Crops							
Government receipts							
Custom machine work					·		·
Gas tax refund							
Other					 _		
- Nonfarm noncash capital**			(-)				(-)
Total Accrual Receipts	\$ 		\$		\$		\$

^{**}Gifts or inheritances of cattle or crops included in inventory.

Profitability Analysis

Farm owners/operators contribute labor, management, and capital to their businesses and the best combination of these resources maximizes income. Farm profitability can be measured as the return to all family resources or as the return to one or more individual resources such as labor and management.

Net farm income is the total combined return to the farm operator(s) and other unpaid family members for their labor, management, and equity capital. It is the farm family's net annual return from working, managing, financing, and owning the farm business. This is not a measure of cash available from the year's business operation. Cash flow is evaluated later in this report.

Net farm income is computed with and without appreciation. Appreciation represents the change in values caused by annual changes in prices of livestock, machinery, real estate inventory, and stocks and certificates (other than Farm Credit stock). Appreciation is a major factor contributing to changes in farm net worth and must be included for a complete profitability analysis.

NET FARM INCOME New York Organic Dairy Farms and Non-Organic Dairy Farms, 2010

	17	113*	
Item	Organic Dairy Farms	Non-organic Dairy Farms	My Farm
Total accrual receipts	\$ 643,991	\$ 577,380	\$
+ Appreciation: Livestock	4,747	-615	
Machinery	12,500	5,913	
Real Estate	15,459	19,310	
Other Stock & Certificates	3,398	<u>263</u>	
= Total Including Appreciation	\$ 680,096	\$ 602,252	\$
- Total accrual expenses	487,419	507,661	
= Net Farm Income (with appreciation)	\$ 192,677	\$ 94,591	\$
Per cow	\$ 1,479	\$ 714	\$
Net Farm Income (without appreciation)	\$ 156,573	\$ 69,719	\$
Per cow	\$ 1,202	\$ 526	\$

^{*}These are 113 non-organic dairy farms in New York that are similar in size and location to the organic farms.

<u>Labor and management income</u> is the return which farm operators receive for their labor and management used in operating the farm business. Appreciation is not included as part of the return to labor and management because it results from ownership of assets rather than management of the farm business. Labor and management income is calculated by deducting from net farm income excluding appreciation a charge for unpaid family labor and the opportunity cost of using equity capital at a 5 percent interest rate. The interest charge of 5 percent reflects the long-term average rate of return that a farm operator might expect to earn in comparable risk investments in a low inflation economy.

Item	17 Organic Dairy Farms	113 Non-organic Dairy Farms	My Farm
Net farm income without appreciation	\$ 156,573	\$ 69,719	\$
- Family labor unpaid @ \$2,500 per month	- 3,103	- 6,675	
- Interest on average equity capital @ 5% real rate	<u>- 64,601</u>	<u>- 51,546</u>	-
= Labor & Management Income	\$ 88,869	\$ 11,498	\$
Labor & Management Income per Operator/Manager	\$ 51,668	\$ 7,231	\$

Return to equity capital measures the net return remaining for the farm operator's equity or owned capital after a charge has been made for unpaid family labor and the owner-operator's labor and management. The earnings or amount of net farm income allocated to labor and management is the opportunity cost of operators' labor and management estimated by the cooperators. Return to equity capital is calculated with and without appreciation. The rate of return on equity capital is determined by dividing the amount returned by the average farm net worth or equity capital. Return to all capital is calculated by adding interest paid to the return to equity capital and then dividing by average farm assets to calculate the rate of return on average total capital. Net farm income from operations ratio is net farm income (without appreciation) divided by total accrual receipts.

RETURN TO EQUITY CAPITAL AND RETURN TO ALL CAPITAL New York Organic Dairy Farms and Non-Organic Dairy Farms, 2010

Item	17 Organic Dairy Farms	113 Non-organic Dairy Farms	My Farm
Net farm income with appreciation	\$ 192,677	\$ 94,591	\$
- Family labor unpaid @ \$2,500 per month	\$ 3,103	\$ 6,675	\$
- Value of operators' labor & management	66,526	57,559	
= Return to equity capital with appreciation	\$ 123,048	\$ 30,357	\$
+ Interest paid	<u> 18,188</u>	18,013	
= Return to all capital with appreciation	\$ 141,236	\$ 48,369	\$
Return to equity capital without appreciation	\$ 86,943	\$ 5,485	\$
Return to all capital without appreciation	\$ 105,132	\$ 23,497	\$
Rate of return on average equity capital: with appreciation without appreciation	9.5% 6.7%	2.9% 0.5%	
Rate of return on all capital: with appreciation without appreciation Net farm income from operations ratio	8.4% 6.3% 0.24	3.3% 1.6% 0.12	

Farm and Family Financial Status

The first step in evaluating the financial status of the farm is to construct a balance sheet, which identifies all the assets and liabilities of the business. The second step is to evaluate the relationship between assets, liabilities, and net worth and changes that occurred during the year.

2010 FARM BUSINESS & NONFARM BALANCE SHEET 17 New York Organic Dairy Farms

					Forms Lightities				
Farm Assets		Jan. 1		Dec. 31	Farm Liabilities & Net Worth		Jan. 1		Dec. 31
Current		Jan. 1		DCC. 31	Current		Jan. 1		DCC. 31
Farm cash, checking					Accounts payable	\$	5,155	\$	14,385
& savings	\$	13,787	\$	13,083	Operating debt	φ	12,345	φ	16,564
Accounts receivable	φ	42,555	φ	50,716	Short term		2,138		1,720
		42,333		,			2,136		1,720
Prepaid expenses				448	Advanced gov't. receipt		U		U
Feed & supplies Total Current	\$	166,708	\$	185,879 250,125	Current portion: Intermediate		41,794		40 105
Total Current	Þ	223,461	Ф	250,125			,		48,185
					Long term	Φ.	12,965	\$	15,639
Total and Park					Total Current	\$	74,398	Э	96,493
<u>Intermediate</u>					<u>Intermediate</u>				
Dairy Cows:	Φ	200 220	ф	222 000	Structured debt	Φ	102 522	Ф	05.020
owned	\$	209,329	\$	232,000	1-10 years	\$	103,532	\$	95,039
leased		0		427	Financial lease		4.420		2.461
Heifers		106,835		116,520	(cattle & machinery)		4,439		3,461
Bulls & other livestock		3,000		5,618	Farm Credit stock	Φ.	476	Φ.	484
Mach. & equip. owned		294,819		347,426	Total Intermediate	\$	108,447	\$	98,984
Mach. & equip. leased		4,439		3,034					
Farm Credit stock		476		484	Long Term				
Other stock & cert.	_	26,160	_	28,398	Structured debt		.==		• • • • • • •
Total Intermediate	\$	645,058	\$	733,907	≥ 10 years	\$	173,815	\$	216,690
Long Term					Financial lease				
Land & buildings:					(structures)	_	0	_	0
owned	\$	715,024	\$	785,298	Total Long Term	\$	173,815	\$	216,690
leased	_	0	_	0					
Total Long Term	\$	715,024	\$	785,298	Total Farm Liabilities	\$	356,660	\$	412,168
Total Farm Assets	\$	1,583,543	\$	1,769,331	FARM NET WORTH	\$	1,226,883	\$	1,357,163
(Average for 9 farms repo	rting)			Nonfarm Liabilities*				
Nonfarm Assets*	Ū	Jan.1		Dec. 31	& Net Worth	J	an. 1	I	Dec. 31
Personal cash, checking					Nonfarm Liabilities	\$	0	\$	0
& savings	\$	611	\$	233	NONFARM NET WORTH	\$	124,647	\$	135,337
Cash value life ins.		14,324		14,626					
Nonfarm real estate		55,556		55,556	FARM & NONFARM**	J	an. 1	I	Dec. 21
Auto (personal share)		510		277	Total Assets	\$	1,708,190	\$	1,904,668
Stocks & bonds		44,923		55,534	Total Liabilities		356,660		412,168
Household furn.		8,722		9,111					
All other		0	_	0	TOTAL FARM & NON-				
Total Nonfarm	\$	124,647	\$	135,337	FARM NET WORTH	\$	1,351,530	\$	1,492,500

^{*}Assumes that average nonfarm assets and liabilities for the nonreporting farms were the same as for those reporting.

Financial lease obligations are included in the balance sheet. The present value of all future payments is listed as a liability since the farm operator is committed to make the payments by signing the lease. The present value is also listed as an asset, representing the future value the item has to the business.

Advance government receipts are included as current liabilities. Government payments received in 2010 that are for participation in the 2011 program are the end year balance and payments received in 2009 for participation in the 2010 program are the beginning year balance.

Date

2010 FARM BUSINESS & NONFARM BALANCE SHEET

			Farm Liabilities		
Farm Assets	Jan. 1	Dec. 31	& Net Worth	Jan. 1	Dec. 31
Current		200.01	Current		200.01
Farm cash, checking			Accounts payable		
& savings			Operating debt		
& savings			Operating debt		
Accounts receivable			Short term		
Prepaid expenses			Advanced gov't. receipt		
Feed & supplies			Current portion:		
Total Current			Intermediate		
			Long term		
			Total Current		
<u>Intermediate</u>			<u>Intermediate</u>		
Dairy Cows:			<u></u>		
owned					
leased			Financial lease		
Heifers			(cattle & machinery)		
Bulls & other livestock			Farm Credit stock		
Mach. & equip. owned			Total Intermediate		
Mach. & equip. leased					
Farm Credit stock			Long Term		
Other stock & cert.					
Total Intermediate			· <u> </u>		
Long Term			Financial lease		
Land & buildings:			(structures)		
owned			Total Long Term		
leased					
Total Long Term			Total Farm Liabilities		
Total Farm Assets			FARM NET WORTH		
Total Famil Assets			FARMINEI WORTH		
			Nonfarm Liabilities		
Nonfarm Assets	Jan.1	Dec. 31	& Net Worth	Jan. 1	Dec. 31
Personal cash, checking			Nonfarm Liabilities		
& savings					
Cash value life ins.					
Nonfarm real estate					
Auto (personal share)					
Stocks & bonds			Total Nonfarm Liabilities		
Household furn.			Total Nomarin Elabilities		
All other			Nonfarm Net Worth		
			Nomarii Net Wortii		
Total Nonfarm					
			-1		_
TOTAL FARM & NONFAL				Jan. 1	Dec. 31
Total Farm and Nonfarm As Less Total Farm & Nonfarm					
Farm & Nonfarm Net Worth	1				

Balance sheet analysis involves examination of relative asset and debt levels for the business. Percent equity is calculated by dividing end of year net worth by end of year assets. The debt to asset ratio is compiled by dividing liabilities by assets. Low debt to asset ratios reflect business solvency and the potential capacity to borrow. The leverage ratio is the dollars of debt per dollar of equity, computed by dividing total farm liabilities by farm net worth. Debt levels per productive unit represent old standards that are still useful if used with measures of cash flow and repayment ability. A current ratio of less than 1.5 or that has been falling warrants additional evaluation. The amount of working capital that is adequate must be related to the size of the farm business.

BALANCE SHEET ANALYSIS
New York Organic Dairy Farms and Non-Organic Dairy Farms, 2010

Item	17 Organic Dairy Farms	113 Non-organic Dairy Farms	My Farm
Financial Ratios - Farm:			
Percent equity	77%	71%	%
Debt/asset ratio: total	0.23	0.29	
long term	0.28	0.26	
intermediate & current	0.20	0.31	
Leverage ratio	0.30	0.40	
Current ratio	2.59	1.82	
Working capital \$153,632 as % of total expenses	32%	(\$82,724) 16%	%
Farm Debt Analysis:			
Accounts payable as % of total debt	3%	7%	%
Long term liabilities as a % of total debt	53%	42%	%
Current & intermediate liabilities as a % of total debt	47%	58%	%
Cost of term debt (weighted average)	4.2%	4.2%	%
Farm Debt Levels Per Cow:			
Total farm debt	\$ 2,987	\$ 3,188	\$
Long term debt	\$ 1,570	\$ 1,341	\$
Intermediate & long term debt	\$ 2,288	\$ 2,437	\$
Intermediate & current debt	\$ 1,417	\$ 1,847	\$

<u>Farm inventory balance</u> is an accounting of the value of machinery and equipment used on the balance sheet and the changes that occur from the beginning to end of year. Changes in the livestock inventory are included in the dairy analysis. Net investment indicates whether the capital stock is being expanded (positive) or depleted (negative).

FARM MACHINERY AND EQUIPMENT INVENTORY BALANCE New York Organic Dairy Farms and Non-Organic Dairy Farms, 2010

Item		17 Dairy Farms		13 c Dairy Farms	N	My Farm
Value beginning of year		\$ 294,819		\$ 282,303		\$
Purchases	\$ 91,265		\$ 26,316		\$	_
+ Nonfarm noncash transfer	0		611			_
- Net Sales	3,892		1,113			_
- Depreciation	47,265		24,491			-
= Net investment		40,108		1,323		
+ Appreciation		12,500		5,913		
= Value end of year		\$ 347,426		\$ 289,539		\$

The Statement of Owner Equity has two purposes. It allows (1) verification that the accrual income statement and market value balance sheet are interrelated and consistent (in accountants' terms, they reconcile) and (2) identification of the causes of change in equity that occurred on the farm during the year. The Statement of Owner Equity allows the farm operator to determine to what degree the change in equity was caused by (1) earnings from the business, and nonfarm income, in excess of withdrawals being retained in the business (called retained earnings), (2) outside capital being invested in the business or farm capital being removed from the business (called contributed/withdrawn capital) and (3) increases or decreases in the value (price) of assets owned by the business (called change in valuation equity).

The change in farm net worth without appreciation is an excellent indicator of farm generated financial progress.

STATEMENT OF OWNER EQUITY (RECONCILIATION) 17 New York Organic Dairy Farms, 2010

Item	Average 17 Organic Dairy Farms	My Farm	
Beginning of year farm net worth	\$1,226,883	\$	
Net farm income without appreciation	\$ 156,573	\$	
+ Nonfarm cash income	+ 4,960	+	
- Personal withdrawals & family expenditures excluding nonfarm borrowings	<u>- 67,978</u>		
RETAINED EARNINGS	+\$93,554	+ \$	
Nonfarm noncash transfers to farm	\$ 0	\$	
+ Cash used in business from nonfarm capital	+ 15,044	+	
- Note/mortgage from farm real estate sold (nonfarm)	<u>-</u> 0		
CONTRIBUTED/WITHDRAWN CAPITAL	+\$15,044	+ \$	
Appreciation	\$ 36,104	\$	
- Lost capital	<u>- 14,861</u>		
CHANGE IN VALUATION EQUITY	+\$21,243	+ \$	
IMBALANCE/ERROR	<u>-\$-439</u>	- \$	
End of year farm net worth*	=\$1,357,163	= \$	
Change in net worth with appreciation.	\$130,280	\$	
Change in Net Worth			
Without appreciation	\$ 94,176	\$	
With appreciation	\$ 130,280	\$	

^{*}May not add due to rounding.

Cash Flow Statement

Completing an annual cash flow statement is an important step in understanding the sources and uses of funds for the business. Understanding last year's cash flow is the first step toward planning and managing cash flow for the current and future years.

The <u>annual cash flow statement</u> is structured to show net cash provided by operating activities, investing activities, financing activities and from reserves. All cash inflows and outflows including beginning and end balances are included. Therefore, the sum of net cash provided from all four activities should be zero. Any imbalance is the error from incorrect accounting of cash inflows/outflows.

ANNUAL CASH FLOW STATEMENT 17 New York Organic Dairy Farms, 2010

Item	Average	17 Organic Da	iry Farms
		<u>-</u>	
Cash Flow from Operating Activities	¢ 570 110		
Cash farm receipts	\$ 578,119		
- Cash farm expenses	396,956		
- Extraordinary expense	3,346	Φ 155.015	
= Net cash farm income	Φ <5.050	\$ 177,817	
Personal withdrawals & family expenses including nonfarm debt payments	\$ 67,978		
- Nonfarm income	4,960	Φ (2.010	
- Net cash withdrawals from the farm		<u>\$ 63,018</u>	* * * * * = * * * * * * * * * * * * * * * * * * *
= Net Provided by Operating Activities			\$ 114,799
Cash Flow From Investing Activities			
Sale of assets: Machinery	\$ 3,892		
+ real estate	1,155		
+ other stock & certificates	2,144		
= Total asset sales		\$ 7,191	
Capital purchases: expansion livestock	\$ 713	+ .,->-	
+ machinery	91,265		
+ real estate	92,403		
+ other stock & certificates	984		
- Total invested in farm assets		\$ 185,365	
= Net Provided by Investment Activities		<u>φ 105,505</u>	\$ -178,174
Cod Flor From Firencias Aut. Was			
Cash Flow From Financing Activities	¢ 114501		
Money borrowed (intermediate & long term)	\$ 114,521		
+ Money borrowed (short term)	0		
+ Increase in operating debt	4,219		
+ Cash from nonfarm capital used in business	15,044		
+ Money borrowed - nonfarm	0	ф. 122 5 0.4	
= Cash inflow from financing		\$ 133,784	
Principal payments (intermediate & long term)	\$ 71,134		
+ Principal payments (short term)	418		
+ Decrease in operating debt	0		
- Cash outflow for financing		\$ 71,552	
= Net Provided by Financing Activities			\$ 62,232
Cash Flow From Dasaryas			
Cash Flow From Reserves Paginning form each sheeking & savings		¢ 12.707	
Beginning farm cash, checking & savings		\$ 13,787	
- Ending farm cash, checking & savings		13,083	¢ 704
= Net Provided from Reserves			<u>\$ 704</u>
Imbalance (error)			\$ -439

ANNUAL CASH FLOW STATEMENT

Item		My Farm	
Cash Flow from Operating Activities			
Cash farm receipts	\$		
- Cash farm expenses			
- Extraordinary expense			
= Net cash farm income		\$	
Personal withdrawals & family expenses including nonfarm debt payments	\$		
- Nonfarm income			
- Net cash withdrawals from the farm		\$	
		·	
= Net Provided by Operating Activities			\$
Cash Flow From Investing Activities			
	\$		
· · · · · · · · · · · · · · · · · · ·	Ф		
+ real estate			
+ other stock & certificates			
= Total asset sales		\$	
~			
Capital purchases: expansion livestock	\$		
+ machinery	·		
+ real estate			
+ other stock & certificates			
- Total invested in farm assets		\$	
= Net Provided by Investment Activities			\$
Cash Flow From Financing Activities			
Money borrowed (intermediate & long term)	\$		
	Φ		
+ Money borrowed (short term)			
+ Increase in operating debt			
+ Cash from nonfarm capital used in business			
+ Money borrowed - nonfarm			
= Cash inflow from financing		\$	
Principal payments (intermediate & long term)	\$		
+ Principal payments (short term)	T		
+ Decrease in operating debt			
- Cash outflow for financing		\$	
- Cash outriow for financing		Ψ	
= Net Provided by Financing Activities			\$
Cach Flow From Pacaryas			
Cash Flow From Reserves Paginning form each checking & savings		C	
Beginning farm cash, checking & savings		\$	
- Ending farm cash, checking & savings			Ф
= Net Provided from Reserves			\$
T 1 1 ()			\$
<u>Imbalance (error)</u>			Φ

Repayment Analysis

The second step in cash flow analysis is to compare the debt payments planned for the last year with the amount actually paid. The measures listed below provide a number of different perspectives on the repayment performance of the business. However, the critical question for many farm operators and lenders is whether planned payments can be made in 2011. The cash flow projection worksheet on the next page can be used to estimate repayment ability, which can then be compared to planned 2011 debt payments shown below.

FARM DEBT PAYMENTS PLANNED
Same 8 New York Organic Dairy Farms, 2009 & 2010*

			1	Average			My Farm				
		2010 F	ayme	ents	Pl	anned	<u></u>	2010 Pa	yments		Planned
Debt Payments	I	Planned		Made		2011	F	Planned	Made		2011
Long-term	\$:	34,386	\$	45,244	\$ 42	2,779	\$		\$	\$	
Intermediate-term		76,810		03,437		3,099					
Short-term		4,203		0		0	_				
Operating (net red.)		1,859		6,112		0					
Accounts payable											
(net reduction)		2,011		1,497		0	_			_	
Total	\$ 1	19,269	\$ 1	56,290	\$ 140),878	\$_		\$	\$	
Per cow	\$	569	\$	745			\$		\$		
Per cwt. 2010 milk	\$	3.84	\$	5.03			\$		\$	_	
Percent of total											
2010 receipts		12%		14%			_			_	
Percent of 2010											
milk receipts		13%		17%			_			_	

^{*}Farms that completed Dairy Farm Business Summaries for both 2009 and 2010.

The <u>cash flow coverage ratio</u> and <u>debt coverage ratio</u> measure the ability of the farm business to meet its planned debt payment schedule. The ratios show the percentage of planned payments (as of December 31, 2009) that could have been made with the amount available for debt service in 2010. Farm operators that did not participate in DFBS last year will find in their report coverage ratios based on planned debt payments for 2011.

COVERAGE RATIOS Same 8 New York Organic Dairy Farms, 2009 & 2010

Item	Average	Item	Average
Cash Flow Coverage Ratio		Debt Coverage Ratio	
Cash farm receipts	\$981,230	Net farm income (w/o appreciation)	\$ 289,253
- Cash farm expenses	673,045	+ Depreciation	113,076
+ Interest paid (cash)	28,445	+ Interest paid (accrual)	28,445
 Net personal withdrawals from farm* 	<u>109,031</u>	- Net personal withdrawals from farm*	109,031
(A) = Amount Available for Debt Service	\$227,599	(A') = Repayment Capacity	\$ 321,743
(B) = Debt Payments Planned for 2010	\$119,269	(B) = Debt Payments Planned for 2010	\$ 119,269
(as of December 31, 2009)		(as of December 31, 2009)	
(A/B)=Cash Flow Coverage Ratio for 2010	1.91	(A'/B)=Debt Coverage Ratio for 2010	2.70

Same 95 New York Non-organic Dairy Farms, 2009 & 2010

^{*}Personal withdrawals and family expenditures less nonfarm income and nonfarm money borrowed. If family withdrawals are excluded, or inaccurately included, the coverage ratios will be incorrect.

ANNUAL CASH FLOW WORKSHEET

	17 Organic			Farm	Expected	
Item	Dairy Farms	T	otal	Per Cow	Change	Projection
Average number of cows	130					
Accrual Operating Receipts	(per cow)					
Milk	\$4,117	\$		\$		_ \$
Dairy cattle	326					
Dairy calves	41					
Other livestock	21					
Crops	232					
Miscellaneous receipts	208					
Total	\$4,945	\$		\$		-
Accrual Operating Expenses	Ψ1,213	Ψ		Ψ		_ Ψ
Hired labor	\$ 592	\$		\$		\$
Dairy grain & concentrate	642	Ψ		Ψ		_ Ψ
Dairy grain & concentrate Dairy roughage	32					
					-	
Nondairy feed	2	-				
Professional nutritional services	2					
Machinery hire, rent & lease	147					
Machinery repair & vehicle exp.	291					_
Fuel, oil & grease	204					
Replacement livestock	13					
Breeding	48					
Vet & medicine	66					
Milk marketing	72					
Bedding	28					
Milking supplies	85					
Cattle lease	3					
Custom boarding	12					
Livestock professional fees	18					
Other livestock expense	28				-	
Fertilizer & lime	75					
Seeds & plants	72					
Spray & other crop expense	16					
Crop professional fees	4					
Land, building & fence repair	99					
Taxes	109					
Real estate rent & lease						
	105 54					
Insurance						
Utilities Ming South and South and South	99					
Misc. & other professional fees	<u>84</u>	ф		Φ		
Total Less Interest Paid	\$3,003	\$		\$	\$	_ \$
Net Accrual Operating Income	(Total)					
(without interest paid)	\$ 252,870		\$			\$
- Change in livestock & crop inv.	57,711				- 	
- Change in accounts receivable	8,161					
- Change in feed & supply inv.*	-8,277					
+ Change in accounts payable**	4,076					
NET CASH FLOW	\$ 199,351		\$			\$
- Net family withdrawals	61,780					
Available for Farm Debt						
& Investments	\$ 137,572		\$			\$
- Farm debt payments	94,344					₩
Available for Farm Investments	\$43,228		\$			-
- Capital purchases: cattle,	Ψ-13,220		Ψ			Ψ
machinery & improvements	185,365		\$		\$	\$
Additional Capital Needed	\$ 142,138		φ		Ψ	_ Ψ

^{*}Includes change in prepaid expenses.

^{**}Excludes change in interest account payable.

Cropping Program Analysis

The cropping program is an important part of the dairy farm business and sometimes it is overlooked and neglected. A complete evaluation of available land resources, how they are being used, how well crops are producing and what it costs to produce them, is required to evaluate alternative cropping and feed purchasing choices.

LAND RESOURCES AND CROP PRODUCTION New York Organic Dairy Farms Reporting, 2010

Item	A	verage of Farr	ns Reporting	My Farm		
Crop Yields Hay crop Corn silage	<u>Farms</u> 17 4	<u>Acres</u> 292 56	Production/Acre* 2.36 tons DM 11.24 tons	<u>Acres</u>	Production/Acre tons DM tons	
Other forage Total forage Corn grain Oats Wheat	2 17 7 3	78 314 74 40 18	4.07 tons DM 2.55 tons DM 2.44 tons DM 106 bushels 57 bushels 35 bushels		tons DM tons DM tons DM tons DM bushels bushels bushels	
Other crops Tillable pasture Idle Total Tillable Acres	9 13 0 17	18 55 197 0 549	33 busnets		busnets	

^{*2010} average yields for 108 non-organic dairy farms in New York included: all hay crops, 2.7 tons dry matter per acre; corn silage, 18.6 tons per acre.

Average crop acres and yields compiled above are for the number of farms reporting each crop. Yields of forage crops have been converted to tons of dry matter using dry matter coefficients reported by the farm operators. Grain production has been converted to bushels of dry grain equivalent based on dry matter information provided.

The following measures of crop management indicate how efficiently the land resource is being used and how well total forage requirements are being met.

CROP MANAGEMENT FACTORS FOR FARMS GROWING FORAGES New York Organic Dairy Farms and Non-Organic Dairy Farms, 2010

Item	17 Organic Dairy Farms	113 Non-organic Dairy Farms	My Farm
Total tillable acres per cow	4.22	2.70	
Total forage acres per cow	2.41	2.28	
Harvested forage dry matter, tons per cow	5.89	8.43	-

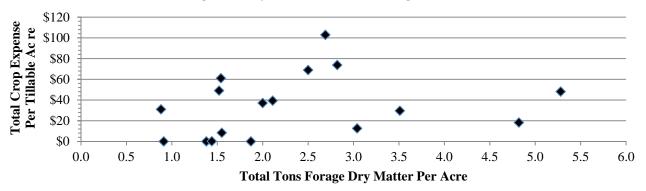
Average fertilizer and lime, seeds and plants, and spray and other crop expenses have been computed per tillable acre for all farms that grew forages. Additional expense items such as fuel, labor, and machinery repairs are not included. Rotational grazing was used on all 17 organic farms and 25 non-organic dairy farms.

CROP RELATED ACCRUAL EXPENSES FOR FARMS GROWING FORAGES

New York Organic Dairy Farms and Non-Organic Dairy Farms, 2010

_	Average Per Tillable Acre				
Item		108 Non-Organic			
	17 Organic Dairy Farms	Dairy Farms	My Farm		
Average number of acres	549	359			
Fertilizer and lime expense	\$15.65	\$38.33	\$		
Seeds & plants	14.17	25.69			
Spray and other crop expense	4.30	<u>15.06</u>			
Total	\$34.12	\$79.08	\$		

CROP EXPENSE PER ACRE BY TOTAL FORAGE PRODUCTION PER ACRE Organic Dairy Farms That Grow Forages, 2010



Most machinery costs are associated with crop production and should be analyzed with the crop enterprise. Total machinery expenses include the major fixed costs (interest and depreciation), as well as the accrual operating costs. Although machinery costs have not been allocated to individual crops, they are shown below per total tillable acre.

ACCRUAL MACHINERY EXPENSES FOR FARMS GROWING FORAGES New York Organic Dairy Farms and Non-Organic Dairy Farms, 2010

	Average Pe	r Tillable Acre	My Farm		
-	17 Organic	108 Non-organic	Total	Per Tillable	
Item	Dairy Farms	Dairy Farms	Expenses	Acre	
Fuel, oil & grease	\$ 48.46	\$ 63.42	\$	\$	
Machine repair & farm vehicle expense	69.07	83.30			
Machine hire, rent & lease	34.82	35.99			
Interest (5%)	29.58	40.97			
Depreciation	86.07	68.59			
Total	\$268.00	\$292.27	\$	\$	

Dairy Program Analysis

Analysis of the dairy enterprise can tell a great deal about the strengths and weaknesses of the dairy farm business. Information on the following page should be used in conjunction with DHI and other dairy production information. Changes in dairy herd size and market values that occur during the year are identified in the table below. The change in inventory value without appreciation is attributed to physical changes in herd size and quality. This increase in inventory is included as an accrual farm receipt when calculating profitability without appreciation impacts.

DAIRY HERD INVENTORY New York Organic Dairy Farms and Non-Organic Dairy Farms, 2010

	Da	iry Cows			I	Heifers		
				Bred		Open	(Calves
Item	No.	Value	No.	Value	No.	Value	No.	Value
17 Organic Dairy Farms:								
Beginning year (owned)	126	\$ 209,329	37	\$ 54,047	42	\$ 38,621	21	\$ 14,168
+ Change w/o appreciation		19,488		4,676		1,315		2,282
+ Appreciation		3,182		823		306		282
End year (owned)	137	\$ 232,000	39	\$ 59,547	43	\$ 40,241	25	\$ 16,732
End including leased	138							
Average number	130		102	(all age grou	ıps)			
113 Non-organic Dairy Farms: Beginning year (owned) + Change w/o appreciation + Appreciation End year (owned) End including leased	129 133 134	\$ 177,047 5,576 -650 \$ 181,973	38 39	\$ 52,330 827 -133 \$ 53,025	40 40	\$ 33,061 26 215 \$ 33,301	30 33	\$ 13,900 1,507 -118 \$ 15,289
Average number	132		112	(all age grou	ıps)			
My Farm: Beginning year (owned) + Change w/o appreciation + Appreciation		\$		\$	_	\$	_	\$
End year (owned) End including leased		\$		\$		\$		\$
Average number	_			(all age grou	ıps)			

Total milk sold and milk sold per cow are extremely valuable measures of productivity on the dairy farm. These measures of milk output are based on pounds of milk marketed during the year.

MILK PRODUCTION

New York Organic Dairy Farms and Non-Organic Dairy Farms, 2010

	17 Organic	113 Non-organic	
Item	Dairy Farms	Dairy Farms	My Farm
Total milk sold, pounds	1,811,926	2,853,742	
Milk sold per cow, pounds	13,912	21,547	
Average milk plant test, % butterfat	3.8%	3.7%	

Monitoring and evaluating culling practices and experiences on an annual basis are important herd management tools. Culling rate can have an affect on both milk per cow and profitability.

ANIMALS LEAVING THE HERD New York Organic Dairy Farms and Non-Organic Dairy Farms, 2010

	17 Oı	17 Organic 113		113 Non-organic		Farm
	Dairy	Farms	Dairy	Farms	-	
Item	Number	Percent*	Number	Percent*	Number	Percent*
Cows sold for beef	28	22	34	25		
Cows sold for dairy	1	1	2	2		
Cows died	5	4	8	6		
Culling rate**		25		31		

^{*}Percent of average number of cows in the herd. ** Cows sold for beef plus cows died.

The cost of producing milk has been compiled using the whole farm method, and is featured in the following table. Accrual receipts from milk sales are compared with the accrual costs of producing milk per hundredweight of milk. Using the whole farm method, operating cost of producing milk is estimated by deducting nonmilk accrual receipts from total accrual operating expenses plus expansion livestock purchased. Purchased input cost of producing milk is the operating cost plus depreciation. Total cost of producing milk includes the operating cost plus depreciation on machinery and buildings, the value of unpaid family labor, the value of operator(s') labor and management, and an interest charge for using equity capital.

COST OF PRODUCING MILK AND ACCRUAL RECEIPTS FROM MILK New York Organic Dairy Farms and Non-Organic Dairy Farms, 2010

	17 Organic Dairy Farms		113 Non-organic Dairy Farms		My Farm	
Item	Total	Per Cwt.	Total	Per Cwt.	Total	Per Cwt.
Accrual Cost of Producing M	<u>ilk</u>					
Operating cost	\$302,256	\$16.68	\$398,609	\$13.97	\$	\$
Purchased input cost	\$379,653	\$20.95	\$436,685	\$15.30	\$	\$
Total cost	\$513,883	\$28.36	\$552,465	\$19.36	\$	\$
Accrual Receipts from Milk	\$536,225	\$29.59	\$506,404	\$17.75	\$	\$
Net Milk Receipts	\$526,849	\$29.08	\$478,721	\$16.78	\$	\$

The accrual operating expenses most commonly associated with the dairy enterprise are listed in the table below. Evaluating these costs per unit of production enables the comparison of different size dairy farms for strengths and areas for improvement.

DAIRY RELATED ACCRUAL EXPENSES
New York Organic Dairy Farms and Non-Organic Dairy Farms, 2010

	Average Pe	r Cwt. Milk	My Farm
Item	17 Organic Dairy	113 Non-Organic	
	Farms	Dairy Farms	Per Cwt.
Durchased dairy arain & apparent	\$4.61	\$5.19	¢
Purchased dairy grain & concentrate			\$
Purchased dairy roughage Total Purchased Dairy Feed	<u>0.23</u> \$4.84	<u>0.39</u> \$5.58	\$
			·
Purchased grain & concentrate as % of milk receipts	17%	30%	%
Purchased feed & crop expense	\$6.04	\$6.60	\$
Purchased feed & crop expense as % of milk receipts	22%	38%	%
Breeding	\$0.35	\$0.24	\$
Veterinary & medicine	0.47	0.55	
Milk marketing	0.52	0.97	
Bedding	0.20	0.31	
Milking supplies	0.61	0.41	
Cattle lease	0.02	0.02	
Custom boarding	0.09	0.13	
bST expense	0.00	0.14	
Livestock professional fees	0.13	0.07	
Other livestock expense	0.20	0.15	

Capital and Labor Efficiency Analysis

Capital efficiency factors measure how intensively the capital is being used in the farm business. The asset turnover ratio is the ratio of total farm income to total farm assets. It is calculated by dividing total accrual operating receipts plus appreciation by average total farm assets. Measures of labor efficiency are key indicators of management's success in generating products per unit of labor input.

CAPITAL EFFICIENCY New York Organic Dairy Farms and Non-Organic Dairy Farms, 2010

Item	Per Worker	Per Cow	Per Tillable Acre
17 Organic Dairy Farms:			
Farm capital	\$ 400,104	\$ 12,872	\$ 3,053
Machinery & equipment	77,532	2,494	592
Ratios			
Asset turnover	Operating expense	Interest expense	Depreciation expense
0.41	0.62	0.03	0.11
113 Non-organic Dairy Farms:			
Farm capital	\$ 380,767	\$ 11,040	\$ 4,216
Machinery & equipment	75,474	2,188	836
Ratios			
Asset turnover	Operating expense	Interest expense	Depreciation expense
0.41	0.78	0.03	0.07
My Farm:			
Farm capital	\$	\$	\$
Machinery & equipment			<u></u>
Ratios			
Asset turnover	Operating expense	Interest expense	Depreciation expense

LABOR FORCE ANALYSIS
New York Organic Dairy Farms and Non-Organic Dairy Farms, 2010

		rganic Farms	113 Non-organic Dairy Farms		Му	Farm
		Per		Per		Per
Efficiency	Total	Worker	Total	Worker	Total	Worker
Cows, average number	130	31	132	34		
Milk sold, pounds	1,811,926	432,097	2,853,742	743,001		
Tillable acres	549	131	347	90		
		nic Dairy rms		n-organic Farms	Му	Farm
Labor Costs	Total	Per Cow	Total	Per Cow	Total	Per Cow
Value of operator(s) labor*	\$ 57,825	\$ 444	\$ 53,423	\$ 403	\$	\$
Family unpaid*	3,100	24	6,616	50		
Hired	77,102	592	53,997	408		
Total Labor	\$ 138,027	\$ 1,060	\$ 114,036	\$ 861	\$	\$
Machinery Cost	\$ 147,175	\$ 1,130	\$ 103,308	\$ 780	\$	\$
Total Labor & Machinery	\$ 285,202	\$ 2,190	\$ 217,344	\$ 1,641	\$	\$
Hired labor expense per hired						
worker equivalent	\$ 35,654		\$ 29,641		\$	
Hired labor expense as % of						
milk sales	14.4%		10.7%		%)
*\$2,500 per month						

^{*\$2,500} per month.

COMPARATIVE ANALYSIS OF THE FARM BUSINESS

Progress of the Farm Business

Comparing your business with average data from regional DFBS cooperators that participated in both of the last two years is one part of a business checkup. It is equally important for you to determine the progress your business has made over the past two or three years and to set targets or goals for the future.

PROGRESS OF THE FARM BUSINESS Same 8 New York Organic Dairy Farms, 2009 & 2010

	Ave	rage	My Farm			
Selected Factors	2009	2010	2009	2010	Goal	
Size of Business						
Average number of cows	199	210				
Average number of heifers	165	163				
Milk sold, pounds	2,881,776	3,108,333				
Worker equivalent	5.21	5.92				
Fotal tillable acres	728	841				
Rates of Production						
Milk sold per cow, pounds	14,518	14,819				
Hay DM per acre, tons	2.4	2.8				
Corn silage per acre, tons	13	11				
Labor Efficiency						
Cows per worker	38	35				
Milk sold per worker, lbs.	553,124	525,056				
Cost Control						
Grain & concentrate purchased						
as % of milk sales	17%	14%	%	%	%	
Dairy feed & crop expense						
per hundredweight milk	\$7.58	\$5.69	\$	\$	\$	
Labor & machinery costs/cow	\$2,150	\$2,220	\$	\$ \$	\$	
Operating cost of producing	Ψ2,130	Ψ2,220	Ψ	Ψ	Ψ	
hundredweight milk	\$21.34	\$16.08	\$	\$	\$	
Capital Efficiency*						
Farm capital per cow	\$12,305	\$12,723	\$	\$	\$	
Machinery & equipment per cow	\$2,418	\$2,657	\$	\$ \$	\$	
Asset turnover ratio	0.43	0.43	————			
Profitability						
Net farm income without appreciation	\$184,259	\$289,253	\$	\$	\$	
Net farm income with appreciation	\$240,186	\$320,310	\$	\$ \$	\$	
Labor & management income	. ,	. , ,-				
per operator/manager	\$45,177	\$95,917	\$	\$	\$	
Rate of return on equity	Ψ.υ,1//	4/29/11	Ψ	Ψ	Ψ	
capital with appreciation	8.0%	11.7%	%	%	%	
Rate of return on all capital	0.070	11.7/0	/0	/0	/0	
with appreciation	7.2%	10.0%	%	%	%	
Financial Summary						
Farm net worth, end year	\$1,925,950	\$2,138,632	\$	\$	\$	
		. , ,				
Debt to asset ratio	0.23	0.25				

^{*}Average for the year.

RECEIPTS AND EXPENSES PER COW AND PER HUNDREDWEIGHT Same 8 New York Organic Dairy Farms, 2009 & 2010

	2009		2010		
Item	Per Cow	Per Cwt.	Per Cow	Per Cwt.	
Average Number of Cows	199		210		
Cwt. of Milk Sold		28,818		31,083	
ACCRUAL OPERATING RECEIPTS					
Milk	\$4,419	\$30.44	\$4,383	\$29.58	
Dairy cattle	239	1.64	φ4,383 379	2.56	
Dairy calves	-6	-0.04	49	0.33	
Other livestock	5	0.03	27	0.18	
Crops	-2	-0.01	306	2.07	
Miscellaneous receipts	329		194	1.31	
Total Receipts	\$4,983	\$34.32	\$5,339	\$36.03	
Total Receipts	\$4,763	φ34.32	φ3,339	\$30.03	
ACCRUAL OPERATING EXPENSES					
Hired labor	\$ 766	\$ 5.27	\$ 702	\$ 4.73	
Dairy grain & concentrate	737	5.08	630	4.25	
Dairy roughage	95	0.65	26	0.18	
Nondairy feed	0	0.00	0	0.00	
Professional nutritional services	1	0.01	0	0.00	
Machine hire/rent/lease	180	1.24	170	1.15	
Machinery repair & vehicle expense	332	2.29	316	2.14	
Fuel, oil & grease	192	1.32	219	1.48	
Replacement livestock	2	0.01	18	0.12	
Breeding	59	0.41	56	0.38	
Veterinary & medicine	69	0.48	77	0.52	
Milk marketing	88	0.60	69	0.47	
Bedding	25	0.17	27	0.18	
Milking supplies	63	0.44	76	0.51	
Cattle lease	0	0.00	0	0.00	
Custom boarding	13	0.09	16	0.11	
bST expense	0	0.00	0	0.00	
Livestock professional fees	8	0.05	19	0.13	
Other livestock expense	46	0.32	31	0.21	
Fertilizer & lime	102	0.71	84	0.56	
Seeds & plants	155	1.07	83	0.56	
Spray/other crop expense	7	0.05	14	0.09	
Crop professional fees	5	0.03	5	0.04	
Land, building, fence repair	117	0.80	94	0.64	
Taxes	99	0.68	100	0.67	
Real estate rent/lease	115	0.79	127	0.86	
Insurance	47	0.32	56	0.38	
Utilities	108	0.75	104	0.70	
Interest paid	124	0.85	136	0.92	
Other professional fees	28	0.19	43	0.29	
Miscellaneous	81	0.56	41	0.28	
Total Operating Expenses	\$3,663	\$25.23	\$3,339	\$22.53	
Expansion Livestock	0	0.00	0	0.00	
Extraordinary Expense	9	0.07	82	0.55	
Machinery Depreciation	246	1.70	369	2.49	
Real Estate Depreciation	136	0.94	170	1.15	
Total Expenses	\$4,054	\$27.94	\$3,960	\$26.72	
Net Farm Income Without Appreciation	\$ 928	\$ 6.39	\$1,379	\$ 9.31	
	, , = 0	+/	T = 7= ' 2	, , , , , , , , , , , , , , , , , , , 	

Condensed Summary and Selected Business Factors for Two Herd Size Groups

CONDENSED FARM BUSINESS SUMMARY FOR TWO ORGANIC GROUPS BY HERD SIZE 17 New York Organic Dairy Farms, 2010

	9 Organic	Dairy Farms with 100 Cows	8 Organic Dairy Farms with > 100 Cows		
Item	Per Cow	Per Cwt.	Per Cow	Per Cwt.	
ACCRUAL EXPENSES					
Hired labor	\$ 143	\$ 1.37	\$ 721	\$ 4.84	
Dairy grain & concentrate	587	5.61	657	4.41	
Dairy roughage	51	0.49	26	0.17	
Nondairy feed	11	0.10	0	0.00	
Professional nutritional services	7	0.06	0	0.00	
Machine hire, rent & lease	63	0.60	171	1.15	
Machine repairs & farm vehicle expense	201	1.92	317	2.13	
Fuel, oil & grease	173	1.65	213	1.43	
Replacement livestock	0	0.00	17	0.11	
Breeding	30	0.29	54	0.36	
Veterinary & medicine	31	0.29	76	0.51	
Milk marketing	91	0.87	66	0.45	
Bedding	16	0.15	32	0.21	
Milking supplies	111	1.06	77	0.52	
Cattle lease & rent	15	0.15	0	0.00	
Custom boarding	0	0.00	16	0.11	
bST expense	0	0.00	0	0	
Livestock professional fees	9	0.08	21	0.14	
Other livestock expense	21	0.20	30	0.20	
Fertilizer & lime	50	0.48	82	0.55	
Seeds & plants	32	0.30	83	0.56	
Spray & other crop expense	26	0.25	14	0.09	
Crop professional fees	0	0.00	5	0.04	
Land, building & fence repair	103	0.98	98	0.66	
Taxes & rent	167	1.60	228	1.53	
Utilities	99	0.95	99	0.66	
Interest paid	167	1.60	132	0.88	
Other professional fees	167	0.15	45	0.30	
	105	1.00	99		
Misc. (including insurance)				0.66	
Total Operating Expenses	\$2,324	\$22.20	\$3,377	\$22.67	
Expansion livestock	25	0.23	0	0.00	
Extraordinary expense	14	0.13	80	0.54	
Machinery depreciation	260	2.49	392	2.63	
Building depreciation	148	1.41	171 (1.021	1.15	
Total Accrual Expenses	\$2,771	\$26.46	\$4,021	\$26.99	
ACCRUAL RECEIPTS	Φ2.125	Φ20.04	Φ4 200	Φ20. 5 2	
Milk sales	\$3,135	\$29.94	\$4,399	\$29.53	
Dairy cattle	147	1.40	377	2.53	
Dairy calves	15	0.14	48	0.32	
Other livestock	10	0.10	25	0.17	
Crops	19	0.18	293	1.97	
Miscellaneous receipts	218	2.08	205	1.37	
Total Accrual Receipts	\$3,543	\$33.84	\$5,346	\$35.88	
PROFITABILITY ANALYSIS (Total)					
Net farm income (without appreciation)		\$42,309		285,118	
Net farm income (with appreciation)		\$60,939		340,882	
Labor & management income/operator		\$3,292	\$1	102,639	
Rates of return on: Equity capital without ap		-3.4%		10.2%	
Equity capital with appre		-0.4%		13.0%	
All capital without appre		-1.6%		8.8%	
All capital with apprecia	tion	0.8%		10.9%	

SELECTED BUSINESS FACTORS FOR TWO ORGANIC GROUPS BY HERD SIZE $17~{\rm New}$ York Organic Dairy Farms, 2010

Item	9 Organic Dairy Farms with < 100 Cows	8 Organic Dairy Farms with > 100 Cows
	1100 00 115	, 100 COM
Cropping Program Analysis		
Total acres	401	1,062
Tillable acres	248	889
Hay crop acres*	174	424
Corn silage acres*	25	67
Hay crop, tons DM/acre*	1.5	2.8
Corn silage, tons/acre*	12.0	11.2
Forage DM per cow, tons*	5.1	6.1
Tillable acres/cow*	4.5	4.1
Fertilizer & lime expense/tillable acre*	\$13.93	\$17.58
Machinery cost/tillable acre*	\$178	\$296
Dairy Analysis		
Number of cows	55	215
Number of heifers	41	171
Milk sold, pounds	573,589	3,205,055
Milk sold/cow, pounds	10,471	14,898
Operating cost of producing milk/cwt.	\$18.53	\$16.31
Total cost of producing milk/cwt.	\$39.10	\$26.20
Price/cwt. milk sold	\$29.94	\$29.53
	\$29.94 \$638	\$29.33 \$683
Purchased dairy feed/cow		
Purchased dairy feed/cwt. milk	\$6.10	\$4.59
Purchased grain & concentrate as % of milk receipts	18%	17%
Purchased feed & crop expense/cwt. milk	\$7.13	\$5.82
Capital Efficiency		
Farm capital/worker	\$298,091	\$449,918
Farm capital/cow	\$14,148	\$12,506
Real estate/cow	\$8,666	\$4,927
Machinery investment/cow	\$2,105	\$2,606
Asset turnover ratio	0.27	0.45
Asset turnover rano	0.27	0.43
Labor Efficiency		
Worker equivalent	2.60	5.98
Operator/manager equivalent	1.66	1.78
Milk sold/worker, lbs.	220,329	535,813
Cows/worker	21	36
Labor cost/cow	\$1,349	\$977
F 1M		
<u>Financial Measures</u>	0427	77 0/
Percent equity	81%	75%
Debt/asset ratio - long term	0.20	0.31
Debt/asset ratio - intermediate & current	0.17	0.21
Change in net worth with appreciation	\$38,901	\$233,082
Total farm debt per cow	\$2,594	\$3,097
Debt payments made per cow	\$577	\$760
Debt payments as % of milk sales	22%	18%
Amount available for debt service	\$51,764	\$234,105
Debt coverage ratio for 2010	7.20	2.49

^{*}Average of farms growing forages.

Farm Business Chart

The Farm Business Chart is a tool which can be used in analyzing your business. Compare your business by drawing a line through or near the figure in each column which represents your current level of performance. The four figures in each column represent the average of each 25 percent or quartile of farms included in the summary.

FARM BUSINESS CHART FOR FARM MANAGEMENT COOPERATORS 17 New York Organic Dairy Farms, 2010

S	Size of Bus	siness	R	Rates of Production		Labor Efficiency	
Worker Equiv- alent	No. of Cows	Pounds Milk Sold	Pounds Milk Sold Per Cow	Tons Hay Crop DM/Acre	Tons Corn Silage Per Acre**	Cows Per Worker	Pounds Milk Sold Per Worker
(14)*	(12)	(12)	(12)	(11)	(11)	(14)	(14)
8.11	303	4,540,175	18,469	4.1	12	46	695,030
4.20	128	1,869,935	14,248	2.5	0	31	431,664
2.95	64	789,700	11,507	1.7	0	25	292,519
2.04	47	400,701	7,421	1.2	0	18	156,141

Cost Control

Grain Bought Per Cow	% Grain is of Milk Receipts	Machinery Costs Per Cow	Labor & Machinery Costs Per Cow	Feed & Crop Expenses Per Cow	Feed & Crop Expenses Per Cwt. Milk
(12)	(12)	(14)	(14)	(12)	(12)
\$163	6%	\$548	\$1,627	\$209	\$2.40
507	14	822	1,984	733	5.27
902	22	1,080	2,374	1,119	7.55
1,203	31	1,656	2,898	1,545	12.47

alue and Cost of Produ	iction		Profitability	
Operating Cost Producing Milk Per Cwt.	Total Cost Producing Milk Per Cwt.	Net Farm Income With Appreciation	Net Farm Income Without Appreciation	Labor & Management Income Per Operator
(12)	(12)	(4)	(4)	(4)
\$12.33	\$24.49	\$566,289	\$505,891	\$193,710
17.70	29.99	159,334	116,699	51,727
21.64	34.31	67,390	45,634	7,992
26.20	60.96	20,691	-2,232	-35,039
	Operating Cost Producing Milk Per Cwt. (12) \$12.33 17.70 21.64	Producing Milk Per Cwt. Producing Milk Per Cwt. (12) (12) \$12.33 \$24.49 17.70 29.99 21.64 34.31	Operating Cost Total Cost Net Farm Producing Milk Producing Milk Income With Per Cwt. Appreciation (12) (12) (4) \$12.33 \$24.49 \$566,289 17.70 29.99 159,334 21.64 34.31 67,390	Operating Cost Producing Milk Per Cwt. Total Cost Producing Milk Per Cwt. Net Farm Income With Appreciation Net Farm Income Without Appreciation (12) (12) (4) (4) \$12.33 \$24.49 \$566,289 \$505,891 17.70 29.99 159,334 116,699 21.64 34.31 67,390 45,634

^{*}Page number of the participant's DFBS where the factor is located.

^{**}Most do not grow corn silage.

Financial Analysis Chart

The farm financial analysis chart is designed just like the Farm Business Chart and may be used to assess the financial health of the farm business. Most of the financial measures used in the chart are defined on pages 10, 11, 14 and 20 of this publication. References to DFBS output page numbers for participating dairy farm operators are provided in the table headings.

FINANCIAL ANALYSIS CHART 17 New York Organic Dairy Farms, 2010

Liquidity (repayment)

Planned Debt Payments Per Cow	Available for Debt Service Per Cow	Cash Flow Coverage Ratio	Debt Payments as Percent of Milk Sales	Debt Per Cow
(10)*	(16)	(10)	(10)	(7)
\$ 0	\$1,778	12.62	8%	\$1,140
0	1000	2.09	14	2,339
362	831	1.36	21	3,309
668	370	0.27	40	4,273

	Solvency	y	Pro	Profitability	
		Debt/Asset Ratio	Percent Rate	of Return on (with	
Leverage	Percent	Current &	App	reciation):	
Ratio**	Equity	Intermediate	Equity	Investment***	
(7)	(7)	(7)	(4)	(4)	
0.08	93%	0.05	26%	18%	
0.18	87	0.16	12	10	
0.37	77	0.25	3	3	
0.82	58	0.43	-10	-5	

	Efficiency (Capital)		
Asset	Machinery	Total Farm	Change in
Turnover	Investment	Assets	Net Worth
Ratio	Per Cow	Per Cow	With Appreciation
(14)	(14)	(14)	(8)
0.63	\$1,094	\$20,365	\$409,633
0.43	1,529	14,296	123,041
0.37	2,299	11,277	35,558
0.20	4,681	8,843	-11,633

^{*}Page number of the participant's DFBS where the factor is located.

^{**}Dollars of debt per dollar of equity, computed by dividing total liabilities by total equity.

^{***}Return on all farm capital (no deduction for interest paid) divided by total farm assets.

IDENTIFY AND SET GOALS

If businesses are to be successful, they must have direction. Written goals help provide businesses with an identifiable direction over both the long and the short term. Goal setting is as important on a dairy farm as it is in other businesses. Written goals are a tool which farm operators can use to ensure that the business continues to move in the proper direction. Goals should be **SMART**:

- 1. Goals should be **Specific**.
- 2. Goals should be Measurable.
- 3. Goals should be Achievable but challenging.
- 4. Goals should be **R**ewarding.
- 5. You should designate a Time when each goal will be achieved.

Goal setting on a dairy farm does not have to be a complex process. In many cases it provides a process for writing down and agreeing on goals that you have already given some thought to. It is also important to remember that once you write out your goals they are not cast in concrete. If a change takes place which has a major impact on the farm business, the goals should be reworked to accommodate that change. Refer to your goals as often as necessary to keep the farm business progressing.

It is important to identify both objectives (long-range) and goals (short-range) when looking at the future of your farm business.

A suggested format for writing out your goals is as follows:

- a. Begin with a mission statement which describes why the business exists based on the preferences and values of the owners.
- b. Identify 4-6 objectives.
- c. Identify SMART goals.

Worksheet for Setting Goals

I. Mission and Objectives

II.	Goals		

What	How	When	Who is Responsible
Summarize Your Business Po	erformance		
The Farm Business as weaknesses of your farm bus improvement.	nd Financial Analysis Charts of siness. Identify three major str	on pages 25 and 26 can be used to rengths and three areas of your fa	o help identify strengths and rm business that need
Strengths:		Need Improvements:	

GLOSSARY AND LOCATION OF COMMON TERMS

<u>Accounts Payable</u> - Open accounts or bills owed to feed and supply firms, cattle dealers, veterinarians and other providers of farm services and supplies.

<u>Accounts Receivable</u> - Outstanding receipts from items sold or sales proceeds not yet received such as the payment for December milk sales received in January.

<u>Accrual Expenses</u> - (defined on page 4)

Accrual Receipts - (defined on page 5)

Annual Cash Flow Statement - (defined on page 12)

Appreciation - (defined on page 6)

Asset Turnover Ratio - (defined on page 20)

Balance Sheet - A "snapshot" of the business financial position at a given point in time, usually December 31. The balance sheet equates the value of assets to liabilities plus net worth.

<u>Capital Efficiency</u> - The amount of capital invested per production unit. Relatively high investments per worker with low to moderate investments per cow imply efficient use of capital.

<u>Cash From Nonfarm Capital Used in the Business</u> - Transfers of money from nonfarm savings or investments to the farm business where it is used to pay operating expenses, make debt payments and/or capital purchases.

<u>Cash Flow Coverage Ratio</u> - (defined on page 14)

<u>Cash Paid</u> - (defined on page 3)

<u>Cash Receipts</u> - (defined on page 5)

<u>Change in Accounts Payable</u> - (defined on page 4)

Change in Accounts Receivable - (defined on page 5)

Change in Inventory - (defined on page 3)

<u>Cost of Term Debt</u> - A weighted average of the cost of borrowed capital to the farm. Calculate by multiplying end of year principal of each loan that is borrowed by the interest rate for each loan at that time. Add up each amount that is calculated for each loan and then divide by total amount of borrowed funds. Do not include accounts payable, operating debt or advanced government receipts. This information is found on pages 8 and 9 of the data entry form.

<u>Culling Rate</u> - (defined on page 18)

<u>Current Portion</u> - Principal due in the next year for intermediate and long term debt.

<u>Current Ratio</u> - Measures the extent to which current farm assets, if liquidated, would cover current farm liabilities. Calculated as current farm assets at end year divided by current farm liabilities at end year.

<u>Dairy (farm)</u> - A farm business where dairy farming is the primary enterprise, operating and managing this farm is a full-time occupation for one or more people and cropland is owned.

<u>Dairy Cash-Crop (farm)</u> - Operating and managing this farm is the full-time occupation of one or more people, cropland is owned but crop sales exceed 10 percent of accrual milk receipts.

<u>**Debt Per Cow**</u> - Total end-of-year debt divided by end-of-year number of cows.

<u>Debt to Asset Ratios</u> - (defined on page 10)

<u>Depreciation Expense Ratio</u> - Machinery and building depreciation divided by total accrual receipts.

<u>Dry Matter</u> - The amount or proportion of dry material that remains after all water is removed. Commonly used to measure dry matter percent and tons of dry matter in feed.

Equity Capital - The farm operator/manager's owned capital or farm net worth.

Expansion Livestock - Purchased dairy cattle and other livestock that cause an increase in herd size from the beginning to the end of the year.

<u>Farm Debt Payments as Percent of Milk Sales</u> - Amount of milk income committed to debt repayment, calculated by dividing planned debt payments by total milk receipts. A reliable measure of repayment ability, see page 15.

<u>Farm Debt Payments Per Cow</u> - Planned or scheduled debt payments per cow represent the repayment plan scheduled at the beginning of the year divided by the average number of cows for the year. This measure of repayment ability is used in the Financial Analysis Chart.

<u>Financial Lease</u> - A long-term non-cancelable contract giving the lessee use of an asset in exchange for a series of lease payments. The term of a financial lease usually covers a major portion of the economic life of the asset. The lease is a substitute for purchase. The lessor retains ownership of the asset.

<u>Hired Labor Expense per Hired Worker Equivalent</u> - The total cost to the farm per hired worker equivalent. Divide accrual hired labor expense by number of hired plus family paid worker equivalent.

<u>Hired Labor Expense as % of Milk Sales</u> - The percentage of the gross milk receipts that is used for labor expense. Divide accrual hired labor expense by accrual milk sales.

<u>Income Statement</u> - A complete and accurate account of farm business receipts and expenses used to measure profitability over a period of time such as one year or one month.

<u>Interest Expense Ratio</u> - Accrual interest expense divided by total accrual receipts.

<u>Labor and Management Income</u> - (defined on page 7)

<u>Labor and Management Income Per Operator</u> - The return to the owner/manager's labor and management per full-time operator.

Labor Efficiency - Production capacity and output per worker.

<u>Leverage Ratio</u> - (defined on page 10)

Liquidity - Ability of business to generate cash to make debt payments or to convert assets to cash.

Net Farm Income - (defined on page 6)

Net Farm Income from Operations Ratio - (defined on page 7)

<u>Net Worth</u> - The value of assets less liabilities equal net worth. It is the equity the owner has in owned assets.

Operating Costs of Producing Milk - (defined on page 19)

<u>Operating Expense Ratio</u> - Total accrual expenses less interest and machinery and building depreciation divided by total accrual receipts.

Opportunity Cost - The cost or charge made for using a resource based on its value in its most likely alternative use. The opportunity cost of a farm operator's labor and management is the value he/she would receive if employed in his/her most qualified alternative position.

<u>Other Livestock Expenses</u> - All other dairy herd and livestock expenses not included in more specific categories. Other livestock expenses include; bedding, DHIC, milk house and parlor supplies, livestock board, registration fees and transfers.

<u>Part-Time Cash-Crop Dairy (farm)</u> - Operating and managing this farm is not a full-time occupation, crop sales exceed 10 percent of accrual milk receipts and cropland is owned.

<u>Part-Time Dairy (farm)</u> - Dairy farming is the primary enterprise, cropland is owned but operating and managing this farm is not a full-time occupation for one or more people.

<u>Personal Withdrawals and Family Expenditures Including Nonfarm Debt Payments</u> - All the money removed from the farm business for personal or nonfarm use including family living expenses, health and life insurance, income taxes, nonfarm debt payments, and investments.

<u>Profitability</u> - The return or net income the owner/manager receives for using one or more of his or her resources in the farm business. True "economic profit" is what remains after deducting all costs including the opportunity costs of the owner/manager's labor, management, and equity capital.

Purchased Inputs Cost of Producing Milk - (defined on page 19)

Repayment Analysis - An evaluation of the business' ability to make planned debt payments.

Replacement Livestock - Dairy cattle and other livestock purchased to replace those that were culled or sold from the herd during the year.

Return on Equity Capital - (defined on page 7)

Return on Total Capital - (defined on page 7)

Return to Operators' Labor, Management, and Equity Capital - (defined on page 6)

Rotational Grazing - The dairy herd is on pasture at least three months of the year, changing paddock at least every three days.

Solvency - The extent or ability of assets to cover or pay liabilities. Debt/asset and leverage ratios are common measures of solvency.

<u>Total Costs of Producing Milk</u> - (defined on page 19)

Whole Farm Method - A procedure used to calculate costs of producing milk on dairy farms without using enterprise cost accounts. All non-milk receipts are assigned a cost equal to their sale value and deducted from total farm expenses to determine the costs of producing milk.

<u>Working Capital</u> - A theoretical measure of the amount of funds available to purchase inputs and inventory items after the sale of current farm assets and payment of all current farm liabilities. Calculate as current farm assets at end year less current farm liabilities at end year.

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OTHER A.E.M. EXTENSION BULLETINS

EB No	Title	Fee (if applicable	a) Author(s)
2011-10	Examining the Costs of Producing Processing Snap Beans and Green Peas in New York State		Ho, S., Rickard, B., Kikkert, J., Klotzbach, K., Reiners, S. and M. Smith
2011-09	Dairy Farm Business Summary, New York Dairy Farm Renters, 2010	(\$16.00)	Knoblauch, W., Putnam, D. and C. Dymon
2011-08	New York Economic Outlook, 2012		Extension Staff
2011-07	Dairy Farm Business Summary, Northern New York Region, 2010		Knoblauch, W., Putnam, L., Karszes, J., Murray, P., Vokey, F., Hayes, C., Deming, A., Balbian, D., Buxton, S., Manning, J., Collins, B., Overton, R. and C. Dymond
2011-06	Dairy Farm Business Summary, Intensive Grazing Farms, New York, 2010		Conneman, G., Karszes, J., Grace, J., Murray, P., Carlberg, V., Benson, A., Staehr, A., Glazier, N., Overton, R., Dymond, C. and L. Putnam
2011-05	Dairy Farm Business Summary, Hudson and Central NY Region, 2010	(\$12.00)	Knoblauch, W., Conneman, G., Putnam, L., Karszes, J., Buxton, S., Kiraly, M. Shoen, K., Westenbroek, P., Walsh, J., Overton, R. and C. Dymond
2011-04	Dairy Farm Business Summary, New York Small Herd Farms, 120 Cows or Fewer, 2010	(\$16.00)	Knoblauch, W., Putnam, L., Karszes, J., Kiraly, M. and C. Dymond
2011-03	Cost of Establishment and Production of Vinifera Grapes in the Finger Lakes Region of New York - 2010		White, G.
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