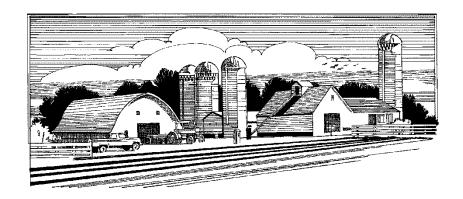
NEW YORK DAIRY FARM RENTERS 2009



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The Dairy Farm Business Summary and Analysis Project is funded in part by:



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2009 DAIRY FARM BUSINESS SUMMARY NEW YORK DAIRY FARM RENTERS

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2009 NEW YORK DAIRY FARM RENTER BUSINESS SUMMARY

INTRODUCTION

Dairy farmers 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 4-6. Three measures of farm profits are calculated on pages 7 and 8. The balance sheet, statement of owner equity, and cash flow statement are featured on pages 9-16. The dairy program analysis includes data on the costs of producing milk (pages 19 and 20).

This New York Dairy Farm Renter Business Summary is an average of 13 businesses that are renting substantially all of the farm real estate. The farm income, financial summary, and business analysis sections of this report include comparisons with average data for 49 owned dairy farms in New York that are similar in size and location to the farms that rent. This report is prepared in workbook form for farm renters to use in the systematic study of their farm business operations.

Business records for 13 farms in Chautauqua, Delaware, Erie, Essex, Livingston, Orange, Schenectady, and Washington Counties are summarized in this publication (see Figure 1 on page 2). The 49 owned dairy farms summarized in this publication include farms from these counties that are similar in size to the renters.

Use Comparative Profitability Data With Caution

The profitability analysis on page 8 implies that renting a dairy farm provides a greater return to the operator's labor and management than does owning the farm. Concessionary rental rates set by some land owners is a factor. The farm owners are often father and mother or other landlords who are willing to accept a very low return for their investment. Total real estate costs including land, building and fence repair; taxes; real estate rent and lease; depreciation; and interest on real estate investment averaged \$191 per tillable acre on the owned dairy farms compared to \$118 per tillable acre on the rented farms. On a per cow basis, these real estate costs averaged \$456 per cow on the owned dairy farms compared to \$293 on the rented farms. This accounts for a \$34,220 difference in real estate costs between owned and rented farms. With this difference in cost structure, the renters averaged higher labor and management incomes per operator. A major factor is the lower interest on equity capital for renters versus farm owners. Opportunity cost of equity for renters was about half that for the owners.

¹Wayne A. Knoblauch, Linda D. Putnam, and Jason Karszes <u>Dairy Farm Management Business Summary, New York State, 2009</u>, R.B. 2010-02, November 2010.

Washington Figure 1. Location of 13 New York Dairy Farm Renters, 2009. ESSEX Schenectady Deldware Chautauqua

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 13 New York Dairy Farm Renters, 2009

Type of Business	Number	Milking Frequency	Nu	mber
Single proprietorship	7	2 times a day		9
Partnership	2	3 times a day		4
Limited liability corporation	2	Other		0
Subchapter S or C corporation	2			
-		Breed of Herd	My Farm	<u>Percent</u>
		Holstein		93
Milking System	Number	Jersey		1
Dumping station	0	Other		6
Pipeline	5			
Herringbone parlor	4	<u>Labor Force*</u>	My Farm	<u>Average</u>
Other parlor	4	Operator 1	mo.	14.5
•		Operator 2	mo.	9.2
Type of Barn	<u>Number</u>	Family paid	mo.	3.0
Stanchion	5	Family unpaid	mo.	4.8
Freestall	8	Hired	mo.	<u>33.1</u>
Combination	0	Total	mo.	64.6
		Worker equivalent		
Dairy Records Service	Number	$(total \div 12)$		5.38
Testing service	10			
On-farm system	0	Operator/Manager Equivalent		1.66
Other	0			
None	3	Land Use	My Farm	<u>Average</u>
		Total acres rented		605
Business Record System	Number	Tillable acres rented		528
Account book	2			
Accounting service	2	Number of Cows	My Farm	<u>Average</u>
On-farm computer	9	Beg. year (owned)		205
Other	0	End year (owned & leased)		217
		Average for year (owned & leased)		213

^{*}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 13 rented 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. Sixty-nine percent of the renters were using on-farm computers for recordkeeping compared to 55 percent of the owners.

The average size of the labor force on the rented farms was similar to the 5.86 worker equivalent on owned farms. The rented farms averaged 528 tillable acres compared to 505 tillable acres on the 49 owned dairy farms. The owned farms averaged 36 cows per worker, and the rented farms averaged 40 cows per worker. In 2009, the rented farms used labor resources more efficiently than the owned 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 13 New York Dairy Farm Renters, 2009

		Change in		Change in		
	Cash	Inventory or		Accounts	Accrual	Percent
Expense Item	Paid	- Prepaid Exp.	+	Payable	= Expenses	of Total
Hired Labor	\$ 104,423	\$ 0	<<*	\$ 0	\$ 104,423	13
Feed						
Dairy grain & concentrate	227,050	-1,543		19,089	247,682	31
Dairy roughage	21,889	-6,464		788	29,140	4
Nondairy feed	0	0		0	0	<1
Professional nutritional services	262	0	<<	0	262	<1
Machinery						
Machinery, hire, rent & lease	19,549	0	<<	3,446	22,995	3
Mach. repair & farm vehicle exp.	38,441	31		3,318	41,728	5
Fuel, oil & grease	28,917	-23		0	28,940	4
<u>Livestock</u>	20,517			Ů	20,7 .0	•
Replacement livestock	3,496	0	<<	0	3,496	<1
Breeding	8,700	38		38	8,700	1
Veterinary & medicine	20,815	4		312	21,123	3
Milk marketing	40,809	0	<<	32	40,842	5
Bedding	10,648	-382		115	11,145	1
Milking supplies	21,296	-362		118	21,408	3
Cattle lease & rent	0	0	<<	0	21,408	0
	16,819				20,204	3
Custom boarding		-692	<<	2,692		
bST expense	9,500	0		0	9,500	1
Livestock professional fees	2,698	0	<<	0	2,698	<1
Other livestock expense	10,440	0		28	10,468	1
Crops	1 < 201	4.42		12.445	20.205	
Fertilizer & lime	16,281	442		12,447	28,285	4
Seeds & plants	10,610	-1,846		2,811	15,267	2
Spray, other crop expense	6,543	0		4,462	11,004	1
Crop professional fees	1,062	0	<<	0	1,062	<1
Real Estate						
Land, building & fence repair	10,597	-108		1,887	12,591	2
Taxes	5,098	0	<<	0	5,098	1
Rent & lease	35,093	0	<<	0	35,093	4
<u>Other</u>						
Insurance	7,824	0	<<	0	7,824	1
Utilities (farm share)	23,366	0	<<	38	23,404	3
Interest paid	16,627	0	<<	0	16,627	2
Other professional fees	4,550	0	<<	0	4,550	1
Miscellaneous	<u>6,478</u>	0		5,769	<u>12,248</u>	2
Total Operating	\$ 729,882	\$-10,536		\$ 57,391	\$ 797,809	100
Expansion livestock	\$ 17,180	\$ 0	<<	\$ 0	\$ 17,180	
Extraordinary expense	4,535	0	<<	0	4,535	
Machinery depreciation					17,987	
Building depreciation					5,564	
TOTAL ACCRUAL EXPENSES					\$ 843,074	

^{*}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, 2010 rent paid in 2009. 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 farmer 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 in Accounts Payable	Accrual = Expense	
<u>=</u>				•		
Hired Labor	\$	\$	<<*	\$	\$	
Feed Dairy grain & concentrate						
Dairy roughage Nondairy feed						—
Professional nutritional services			<<			
Machinery						
Machinery, hire, rent & lease			<<			
Mach. repair & farm vehicle exp.						
Fuel, oil & grease						
Livestock						
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			<<			
Other						
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 13 New York Dairy Farm Renters, 2009

Receipt Item	Cash Receipts	+ Change in Inventory	Change in + Accounts Receivable	= Accrual Receipts
Milk Sales	\$ 692,163		\$ -7,175	\$ 684,989
Dairy cattle	30,443	\$ 24,051	0	54,494
Dairy calves	6,779	2,338	0	9,117
Other livestock	704	-658	0	47
Crops	12,245	-16,092	0	-3,847
Government receipts	50,068	0*	0	50,068
Custom machine work	6,412		0	6,412
Gas tax refund	40		0	40
Other	8,350		385	8,735
- Nonfarm noncash capital**		<u>(-)</u> 0		<u>(-)</u> 0
Total Accrual Receipts	\$ 807,205	\$ 9,640	\$ -6,790	\$ 810,055

^{*}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 farmer 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 Dairy Farm Renters and Owners, 2009

Item	13 Dairy Farm Renters	49 Dairy Farm Owners	My Farm
Total accrual receipts	\$ 810,055	\$ 789,969	\$
+ Appreciation: Livestock	-30,446	-33,607	
Machinery	4,383	5,777	
Real Estate	417	16,270	
Other Stock & Certificates	1,031	-3,339	
= Total Including Appreciation	\$ 785,440	\$ 775,070	\$
- Total accrual expenses	843,074	841,950	
= Net Farm Income (with appreciation)	\$ -57,635	\$ -66,880	\$
Per cow	\$ -271	\$ -316	\$
Net Farm Income (without appreciation)	\$ -33,020	\$ -51,981	\$
Per cow	\$ -155	\$ -246	\$

<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 farmer might expect to earn in comparable risk investments in a low inflation economy.

LABOR AND MANAGEMENT INCOME New York Dairy Farm Renters and Owners, 2009

Item	13 Dairy Farm Renters	49 Dairy Farm Owners	My Farm
Net farm income without appreciation	\$ -33,020	\$ -51,981	\$
- Family labor unpaid @ \$2,500 per month	- 11,942	- 8,883	
- Interest on average equity capital @ 5% real rate	- 33,535	- 72,211	
= Labor & Management Income	\$ -78,498	\$ -133,075	\$
Labor & Management Income per Operator/Manager	\$ -47,288	\$ -76,922	\$

Return to equity capital measures the net return remaining for the farmer'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 Dairy Farm Renters and Owners, 2009

Item	13 Dairy Farm Renters	49 Dairy Farm Owners	My Farm
Net farm income with appreciation	\$ -57,635	\$ -66,880	\$
- Family labor unpaid @ \$2,500 per month	\$ 11,942	\$ 8,883	\$
- Value of operators' labor & management	67,246	62,202	
= Return to equity capital with appreciation	\$ -136,823	\$ -137,964	\$
+ Interest paid	16,627	26,283	
= Return to all capital with appreciation	\$ -120,197	\$ -111,681	\$
Return to equity capital without appreciation	\$ -112,208	\$ -123,065	\$
Return to all capital without appreciation	\$ -95,582	\$ -96,782	\$
Rate of return on average equity capital: with appreciation without appreciation	-20.4% -16.7%	-9.6% -8.5%	% %
Rate of return on all capital: with appreciation without appreciation	-10.7% -8.5%	-5.3% -4.6%	% %
Net farm income from operations ratio	-0.04	-0.07	·

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.

2009 FARM BUSINESS & NONFARM BALANCE SHEET 13 New York Dairy Farm Renters

					Farm Liabilities				
Farm Assets		Jan. 1		Dec. 31	& Net Worth		Jan. 1		Dec. 31
Current					Current				
Farm cash, checking					Accounts payable	\$	19,801	\$	77,192
& savings	\$	13,549	\$	22,752	Operating debt		18,632		34,048
Accounts receivable		65,504		58,714	Short term		3,000		0
Prepaid expenses		692		0	Advanced gov't. receipt		0		0
Feed & supplies		156,472		130,536	Current portion:				
Total Current	\$	236,217	\$	212,002	Intermediate		26,576		48,079
					Long term	_	5,046		5,197
					Total Current	\$	73,055	\$	164,515
<u>Intermediate</u>					<u>Intermediate</u>				
Dairy Cows:					Structured debt				
owned	\$	309,646	\$	298,742	1-10 years	\$	249,485	\$	296,639
leased		1		1	Financial lease				
Heifers		161,750		168,608	(cattle & machinery)		1		1,765
Bulls & other livestock		1,592		923	Farm Credit stock		388		463
Mach. & equip. owned		246,252		269,868	Total Intermediate	\$	249,874	\$	298,868
Mach. & equip. leased		0		1,765					
Farm Credit stock		388		463	Long Term				
Other stock & cert.		89,529		82,471	Structured debt				
Total Intermediate	\$	809,158	\$	822,842	\geq 10 years	\$	59,351	\$	55,860
Long Term					Financial lease				
Land & buildings:					(structures)		0		1,784
owned	\$	75,497	\$	87,214	Total Long Term	\$	59,351	\$	57,644
leased		0	_	1,784					
Total Long Term	\$	75,497	\$	88,998	Total Farm Liabilities	\$	382,280	\$	521,027
Total Farm Assets		1,120,872	\$	1,123,842	FARM NET WORTH	\$	738,592	\$	602,815
(Average for 3 farms repo	rting))			Nonfarm Liabilities*				
Nonfarm Assets*		Jan.1		Dec. 31	& Net Worth	J	an. 1	Ι	Dec. 31
Personal cash, checking					Nonfarm Liabilities	\$	0	\$	0
& savings	\$	22,971	\$	16,305	NONFARM NET WORTH	\$	61,971	\$	55,305
Cash value life ins.		0		0					
Nonfarm real estate		26,667		26,667	FARM & NONFARM**	J	an. 1	Ι	Dec. 21
Auto (personal share)		0		0	Total Assets	\$	1,182,843	\$	1,179,147
Stocks & bonds		0		0	Total Liabilities		382,280		521,027
Household furn.		333		333				-	
All other		12,000		12,000	TOTAL FARM & NON-				
Total Nonfarm	\$	61,971	\$	55,305	FARM NET WORTH	\$	800,563	\$	658,120

^{*}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 farmer 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 2009 that are for participation in the 2010 program are the end year balance and payments received in 2008 for participation in the 2009 program are the beginning year balance.

Date

2009 FARM BUSINESS & NONFARM BALANCE SHEET

			Farm Liabilities		
Farm Assets	Jan. 1	Dec. 31	& Net Worth	Jan. 1	Dec. 31
Current	Jan. 1	Dcc. 31	Current	Jan. 1	Dcc. 31
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:					
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					
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 Parili Assets			PARWINET 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.					
All other			Nonfarm Net Worth		
Total Nonfarm					
TOTAL DADA O NOVEL	DM			T 1	D 21
TOTAL FARM & NONFA				Jan. 1	Dec. 31
Total Farm and Nonfarm As					
Less Total Farm & Nonfarm					
Farm & Nonfarm Net Worth	n				

<u>Balance sheet analysis</u> 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 Dairy Farm Renters and Owners, 2009

Item	13 Dairy Farm Renters	49 Dairy Farm Owners	My Farm
Firm dal Dadas - Francis			•
Financial Ratios - Farm:	£40/	<i>(7</i> 0/	%
Percent equity	54%	67%	
Debt/asset ratio: total	0.46	0.33	
long term	0.65	0.21	
intermediate & current	0.45	0.42	
Leverage ratio	0.86	0.50	
Current ratio	1.29	1.32	
Working capital \$47,486 as % of total expenses	6%	(\$61,679) 7%	%
Farm Debt Analysis:			
Accounts payable as % of total debt	15%	8%	%
Long term liabilities as a % of total debt	11%	28%	<u></u> %
Current & intermediate liabilities as a % of total debt	89%	72%	
Cost of term debt (weighted average)	3.7%	4.3%	
Cost of term debt (weighted average)	5.770	T.J/0	
Farm Debt Levels Per Cow:			
Total farm debt	\$ 2,396	\$ 3,204	\$
Long term debt	\$ 265	\$ 907	\$
Intermediate & long term debt	\$ 1,639	\$ 2,312	\$
Intermediate & current debt	\$ 2,131	\$ 2,297	Ť

<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 Dairy Farm Renters and Owners, 2009

Item	13 Dairy Farm Renters			Dairy Owners	My Farm		
Value beginning of year		\$ 246,252		\$ 388,199		\$	
Purchases	\$ 40,682		\$ 26,722		\$		
+ Nonfarm noncash transfer	0		1,592				
- Net Sales	3,462		655				
- Depreciation	17,987		40,196				
= Net investment		19,234		-12,538			
+ Appreciation		4,383		5,777			
= Value end of year		\$ 269,868		\$ 381,439		\$	

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 farmer 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) 13 New York Dairy Farm Renters, 2009

Item	Average	My Farm
Beginning of year farm net worth	\$ 738,592	\$
Net farm income without appreciation	\$ -33,020	\$
+ Nonfarm cash income	+ 2,466	+
- Personal withdrawals & family expenditures excluding nonfarm borrowings	<u>- 65,556</u>	
RETAINED EARNINGS	+ \$ -96,109	+ \$
Nonfarm noncash transfers to farm	\$ 0	\$
+ Cash used in business from nonfarm capital	+ 2,130	+
- Note/mortgage from farm real estate sold (nonfarm)	- 0	
CONTRIBUTED/WITHDRAWN CAPITAL	+\$ 2,130	+ \$
Appreciation	\$ -24,615	\$
- Lost capital	<u>- 15,000</u>	
CHANGE IN VALUATION EQUITY	+ \$ -39,615	+ \$
IMBALANCE/ERROR	<u>- \$ 2,183</u>	- \$
End of year farm net worth*	= \$ 602,815	= \$
Change in net worth with appreciation.	\$-135,777	\$
Change in Net Worth		
Without appreciation	\$-111,162	\$
With appreciation	\$-135,777	\$

^{*}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 13 New York Dairy Farm Renters, 2009

Item		Average	
Cook Flow from Organia Astinities			
Cash Flow from Operating Activities	¢ 907.205		
Cash farm receipts	\$ 807,205		
- Cash farm expenses	729,882		
- Extraordinary expense	4,535	ф 70 7 00	
= Net cash farm income	ф <i>(Е.Е.С.</i>	\$ 72,788	
Personal withdrawals & family expenses including nonfarm debt payments	\$ 65,556		
- Nonfarm income	2,466	¢ (2,000	
- Net cash withdrawals from the farm		<u>\$ 63,090</u>	Φ 0.600
= Net Provided by Operating Activities			\$ 9,698
Cash Flow From Investing Activities			
Sale of assets: Machinery	\$ 3,462		
+ real estate	0		
+ other stock & certificates	12,426		
= Total asset sales		\$ 15,888	
Capital purchases: expansion livestock	\$ 17,180		
+ machinery	40,682		
+ real estate	31,864		
+ other stock & certificates	4,337		
- Total invested in farm assets		\$ 94,063	
= Net Provided by Investment Activities			\$ -78,175
Cash Flow From Financing Activities			
· · · · · · · · · · · · · · · · · · ·	¢ 110.526		
Money borrowed (intermediate & long term)	\$ 110,526		
+ Money borrowed (short term)	15 416		
+ Increase in operating debt	15,416		
+ Cash from nonfarm capital used in business	2,130		
+ Money borrowed - nonfarm	0	¢ 120.072	
= Cash inflow from financing		\$ 128,072	
Principal payments (intermediate & long term)	\$ 48,211		
+ Principal payments (short term)	0		
+ Decrease in operating debt	0		
- Cash outflow for financing		\$ 48,211	
= Net Provided by Financing Activities			\$ 79,861
Cash Flow From Reserves			
		\$ 13,549	
Beginning farm cash, checking & savings			
- Ending farm cash, checking & savings		22,752	¢ 0.202
= Net Provided from Reserves			\$ -9,203
Imbalance (error)			\$ 2,181

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			
Sale of assets: Machinery	\$		
+ real estate			
+ other stock & certificates			
= Total asset sales		\$	
Capital purchases: expansion livestock	\$		
+ machinery			
+ real estate			
+ other stock & certificates			
- Total invested in farm assets		\$	
- Total invested in farm assets		Ψ	
= Net Provided by Investment Activities			\$
- Not I to vided by investment receivines			Ψ
Cash Flow From Financing Activities			
Money borrowed (intermediate & long term)	\$		
+ Money borrowed (short term)	Ψ		
+ Increase in operating debt			
+ Cash from nonfarm capital used in business			
+ Money borrowed - nonfarm			
= Cash inflow from financing		\$	
	Φ.		
Principal payments (intermediate & long term)	\$		
+ Principal payments (short term)			
+ Decrease in operating debt			
- Cash outflow for financing		\$	
= Net Provided by Financing Activities			\$
<u>Cash Flow From Reserves</u>			
Beginning farm cash, checking & savings		\$	
- Ending farm cash, checking & savings			
= Net Provided from Reserves			\$
			-
Imbalance (error)			\$
			

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 to many farmers and lenders is whether planned payments can be made in 2010. The cash flow projection worksheet on the next page can be used to estimate repayment ability, which can then be compared to planned 2010 debt payments shown below.

FARM DEBT PAYMENTS PLANNED Same 9 New York Dairy Farm Renters, 2008 & 2009*

	Average					My Farm				
	 2009 I	Paym	ents		Planned		2009 P	aym	ents	Planned
Debt Payments	Planned		Made	_	2010		Planned		Made	2010
Long-term	\$ 808	\$	808	\$	808	\$		\$		\$
Intermediate-term	23,271		18,702		27,714					
Short-term	4,333		0		0					
Operating (net red.)	1		28		133					
Accounts payable										
(net reduction)	222		5,460		0					
Total	\$ 28,636	\$	24,998	\$	28,655	\$		\$		\$
Per cow	\$ 208	\$	181			\$		\$		_
Per cwt. 2009 milk	\$ 0.91	\$	0.80			\$		\$		_
Percent of total										
2009 receipts	6%		5%							_
Percent of 2009										
milk receipts	7%		6%							

^{*}Farms that completed Dairy Farm Business Summaries for both 2008 and 2009.

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, 2008) that could have been made with the amount available for debt service in 2009. Farmers that did not participate in DFBS last year will find in their report coverage ratios based on planned debt payments for 2010.

COVERAGE RATIOS Same 9 New York Dairy Farm Renters, 2008 & 2009

Item	Average	Item	Average
Cash Flow Coverage Ratio		Debt Coverage Ratio	
Cash farm receipts	\$ 501,166	Net farm income (w/o appreciation)	\$ 11,786
- Cash farm expenses	460,433	+ Depreciation	12,968
+ Interest paid (cash)	4,032	+ Interest paid (accrual)	4,032
 Net personal withdrawals from farm* 	63,702	- Net personal withdrawals from farm*	63,702
(A) = Amount Available for Debt Service	\$ -18,937	(A') = Repayment Capacity	\$ -34,916
(B) = Debt Payments Planned for 2009	\$ 28,636	(B) = Debt Payments Planned for 2009	\$ 28,636
(as of December 31, 2008)		(as of December 31, 2008)	
(A/B)=Cash Flow Coverage Ratio for 2009	-0.66	(A'/B)=Debt Coverage Ratio for 2009	-1.22

Same 42 New York Dairy Farm Owners, 2008 & 2009

^{*}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

	13 Dairy		M	y Farm	l	:	Expected		2010
Item	Farm Renters		Total		Per Cow		Change		Projection
Average number of cows	213			_					
Accrual Operating Receipts	(per cow)								
Milk	\$3,216	\$		\$_				\$	
Dairy cattle	256			_					
Dairy calves	43			_					
Other livestock	0			_					
Crops	-18			_					
Miscellaneous receipts Total	306 \$3,803	\$		\$ _				\$	
Accrual Operating Expenses Hired labor	\$ 490	\$		\$				\$	
	7	Ф		Φ_				Ф	
Dairy grain & concentrate	1,163			-					
Dairy roughage	137			_					
Nondairy feed	0			-					
Professional nutritional services	1			-					
Machinery hire, rent & lease	108			-					
Machinery repair & vehicle exp.	196			_					
Fuel, oil & grease	136			_					
Replacement livestock	16			-					
Breeding	41			_					
Vet & medicine	99			_					
Milk marketing	192			_					
Bedding	52			_					
Milking supplies	101			_					
Cattle lease	0			_					
Custom boarding	95			_					
bST expense	45			_					
Livestock professional fees	13			_					
Other livestock expense	49			_					
Fertilizer & lime	133			_					
Seeds & plants	72			_					
Spray & other crop expense	52			_					
Crop professional fees	5			_					
Land, building & fence repair	59			_					
Taxes	24			_					
Real estate rent & lease	165			_					
Insurance	37			_					
Utilities	110			_					
Misc. & other professional fees				_					
Total Less Interest Paid	\$3,668	\$		\$_		\$		\$	
Net Accrual Operating Income	(Total)		A					_	
(without interest paid)	\$ 28,872		\$					\$	
- Change in livestock & crop inv.	9,640								
- Change in accounts receivable	-6,790								
- Change in feed & supply inv.*	-10,536								
+ Change in accounts payable**	57,391							_	
NET CASH FLOW	\$ 93,950		\$					\$	
- Net family withdrawals	<u>63,090</u>								
Available for Farm Debt	4.20.05		Φ.					_	
& Investments	\$ 30,860		\$					\$	
- Farm debt payments	68,113							*	
Available for Farm Investments	\$-37,253		\$					\$	
- Capital purchases: cattle,	04055		Φ.			*		.	
machinery & improvements	94,063		\$			\$		\$	
Additional Capital Needed	\$ 131,316		\$					\$	

^{*}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 Dairy Farm Renters Reporting, 2009

Item	A	verage of Farr	ns Reporting	My Farm		
Crop Yields Hay crop Corn silage	<u>Farms</u> 11 12	<u>Acres</u> 344 190	Production/Acre* 2.95 tons DM 15.41 tons	<u>Acres</u>	Production/Acre tons DM tons	
Other forage Total forage Corn grain Oats	3 12 0 0	41 515 0 0	4.81 tons DM 2.24 tons DM 3.62 tons DM 0 bushels 0 bushels		tons DM tons DM tons DM tons DM bushels bushels	
Wheat Other crops Tillable pasture Idle Total Tillable Acres	0 3 2 2 13	0 46 49 136 528	0 bushels		bushels	

^{*2009} average yields for 49 dairy farm owners in New York included: all hay crops, 2.9 tons dry matter per acre; corn silage, 17.9 tons per acre.

Average crop acres and yields compiled for the region 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 farmers. 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 Dairy Farm Renters and Owners, 2009

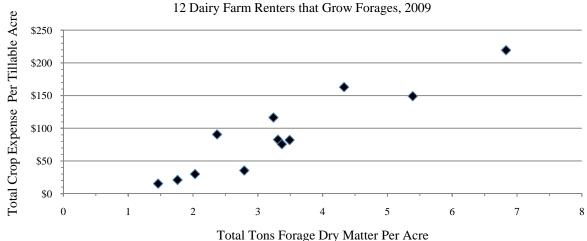
Item	13 Dairy Farm Renters	49 Dairy Farm Owners	My Farm
Total tillable acres per cow	2.85	2.40	
Total forage acres per cow	2.56	2.14	
Harvested forage dry matter, tons per cow	9.28	8.52	

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 1 rented farm and 15 owned farms.

CROP RELATED ACCRUAL EXPENSES New York Dairy Farm Renters and Owners, 2009

Item	Average Per Tillable Acre					
	12 Dairy Farm Renters	48 Dairy Farm Owners	My Farm			
Average number of acres	573	516				
Fertilizer and lime expense	\$50.65	\$38.29	\$			
Seeds & plants	26.86	20.20				
Spray and other crop expense	12.51	<u>15.56</u>				
Total	\$90.02	\$74.05	\$			

CROP EXPENSE PER ACRE BY TOTAL FORAGE PRODUCTION PER ACRE



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 Dairy Farm Renters and Owners, 2009

	Average Per	Tillable Acre	My Farm		
τ.	12 Dairy	48 Dairy	Total	Per Tillable	
Item	Farm Renters	Farm Owners	Expenses	Acre	
Fuel, oil & grease	\$ 53.74	\$ 61.22	\$	\$	
Machine repair & farm vehicle expense	78.47	79.93			
Machine hire, rent & lease	38.18	27.92			
Interest (5%)	24.33	38.00			
Depreciation	33.76	79.39			
Total	\$228.48	\$286.46	\$	\$	

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 Dairy Farm Renters and Owners, 2009

	Da	iry Cows		Heifers				
				Bred		Open		Calves
Item	No.	Value	No.	Value	No.	Value	No.	Value
13 Dairy Farm Renters:								
Beginning year (owned)	205	\$ 309,646	55	\$ 81,388	57	\$ 53,008	54	\$ 27,354
+ Change w/o appreciation		11,646		312		12,093		2,338
+ Appreciation		-22,550		-2,092		-3,485		-2,308
End year (owned)	213	\$ 298,742	57	\$ 79,608	68	\$ 61,616	57	\$ 27,385
End including leased	217							
Average number	213		172	(all age groups	s)			
49 Dairy Farm Owners:								
Beginning year (owned)	204	\$ 321,379	66	\$ 100,626	66	\$ 65,198	46	\$ 25,537
+ Change w/o appreciation		14,207		1,291		-526		5,817
+ Appreciation		<u>-19,918</u>		-7,892		-2,709		-2,910
End year (owned)	213	\$ 315,667	67	\$ 94,024	66	\$ 61,963	54	\$ 28,444
End including leased	216							
Average number	212		183	(all age groups	s)			
My Farm:								
Beginning year (owned)		\$		\$		\$		\$
+ Change w/o appreciation		Ψ		Ψ		Ψ		Ψ
+ Appreciation								
End year (owned)		\$		\$		\$		\$
End including leased								
Average number	_			(all age group	s)			

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 Dairy Farm Renters and Owners, 2009

	13 Dairy	49 Dairy	
Item	Farm Renters	Farm Owners	My Farm
Total milk sold, pounds	4,886,388	4,793,858	
Milk sold per cow, pounds	22,941	22,665	
Average milk plant test, % butterfat	3.7%	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 Dairy Farm Renters and Owners, 2009

13 Dairy Fa	13 Dairy Farm Renters		49 Dairy Farm Owners		Farm
Number	Percent*	Number	Percent*	Number	Percent*
47	22	58	27		
3	2	3	1		
17	8	12	6		
	30		33		
		Number Percent* 47 22 3 2 17 8	Number Percent* Number 47 22 58 3 2 3 17 8 12	Number Percent* Number Percent* 47 22 58 27 3 2 3 1 17 8 12 6	Number Percent* Number Percent* Number 47 22 58 27 3 2 3 1 17 8 12 6

^{*}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 Dairy Farm Renters and Owners, 2009

	13 Dairy Fa	13 Dairy Farm Renters 49 Dairy Farm O		49 Dairy Farm Owners		Farm
Item	Total	Per Cwt.	Total	Per Cwt.	Total	Per Cwt.
Accrual Cost of Producing M	<u>ilk</u>					
Operating cost	\$689,923	\$14.12	\$651,431	\$13.59	\$	\$
Purchased input cost	\$718,009	\$14.69	\$713,392	\$14.88	\$	\$
Total cost	\$830,733	\$17.00	\$856,688	\$17.87	\$	\$
Accrual Receipts from Milk	\$684,989	\$14.02	\$661,411	\$13.80	\$	\$
Net Milk Receipts	\$644,147	\$13.18	\$612,689	\$12.78	\$	\$

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 Dairy Farm Renters and Owners, 2009

	Average Pe	er Cwt. Milk	My Farm
Item	13 Dairy Farm	49 Dairy Farm	·
	Renters	Owners	Per Cwt.
Purchased dairy grain & concentrate	\$5.07	\$5.47	\$
Purchased dairy roughage	0.60	0.08	
Total Purchased Dairy Feed	\$5.67	\$5.55	\$
Purchased grain & concentrate as % of milk receipts	38%	40%	%
Purchased feed & crop expense	\$6.80	\$6.59	\$
Purchased feed & crop expense as % of milk receipts	50%	47%	%
Breeding	\$0.18	\$0.29	\$
Veterinary & medicine	0.43	0.57	
Milk marketing	0.84	1.02	
Bedding	0.23	0.34	
Milking supplies	0.44	0.43	
Cattle lease	0.00	0.00	
Custom boarding	0.41	0.29	
bST expense	0.19	0.13	
Livestock professional fees	0.06	0.04	
Other livestock expense	0.21	0.17	

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 Dairy Farm Renters and Owners, 2009

Item	Per Worker	Per Cow	Per Tillable Acre
13 Dairy Farm Renters:			
Farm capital	\$ 208,617	\$ 5,269	\$ 2,124
Machinery & equipment	48,131	1,216	490
Ratios	,	,	
Asset turnover	Operating expense	Interest expense	Depreciation expense
0.70	0.99	0.02	0.03
49 Dairy Farm Owners:			
Farm capital	\$ 356,722	\$ 9,883	\$ 4,139
Machinery & equipment	65,669	1,819	762
Ratios			
Asset turnover	Operating expense	Interest expense	Depreciation expense
0.37	0.95	0.03	0.08
My Farm:			
Farm capital	\$	\$	\$
Machinery & equipment			<u></u>
Ratios			
Asset turnover	Operating expense	Interest expense	Depreciation expense

LABOR FORCE ANALYSIS New York Dairy Farm Renters and Owners, 2009

	13 Dairy Fa	arm Renters	49 Dairy Fa	arm Owners	My	Farm
		Per		Per		Per
Efficiency	Total	Worker	Total	Worker	Total	Worker
Cows, average number	213	40	212	36		
Milk sold, pounds	4,886,388	908,251	4,793,858	818,647		
Tillable acres	528	98	505	86		
	13 Dairy Farm Renters		49 Dairy Farm Owners		My Farm	
Labor Costs	Total	Per Cow	Total	Per Cow	Total	Per Cow
Value of operator(s) labor*	\$ 59,200	\$ 278	\$ 56,675	\$ 268	\$	\$
Family unpaid*	11,950	56	8,875	42		
Hired	104,423	490	120,893	572		
Total Labor	\$ 175,573	\$ 824	\$ 186,443	\$ 881	\$	\$
Machinery Cost	\$ 124,598	\$ 585	\$ 145,177	\$ 686	\$	\$
Total Labor & Machinery	\$ 300,171	\$ 1,409	\$ 331,620	\$ 1,568	\$	\$
Hired labor expense per hired						
worker equivalent	\$ 34,711		\$ 32,933		\$	
Hired labor expense as % of						
milk sales	15.2%		18.3%		%	

^{*\$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 9 New York Dairy Farm Renters, 2008 & 2009

	Aver	age		My Farm	
Selected Factors	2008	2009	2008	2009	Goal
Size of Business					
Average number of cows	130	138			
Average number of heifers	98	111			
Milk sold, pounds	2,790,400	3,139,138			
Worker equivalent	3.63	3.69			
Total tillable acres	378	372			
Rates of Production					
Milk sold per cow, pounds	21,520	22,784			
Hay DM per acre, tons	2.2	2.5			
Corn silage per acre, tons	15.6	10.7			
Labor Efficiency					
Cows per worker	36	37	- -		
Milk sold per worker, lbs.	768,705	850,715			
Cost Control					
Grain & concentrate purchased					
as % of milk sales	31%	34%	%	%	%
Dairy feed & crop expense					
per hundredweight milk	\$8.23	\$6.38	\$	\$	\$
Labor & machinery costs/cow	\$1,499	\$1,304	\$	\$	\$
Operating cost of producing					
hundredweight milk	\$15.79	\$12.97	\$	\$	\$
Capital Efficiency*					
Farm capital per cow	\$5,917	\$5,402	\$	\$	\$
Machinery & equipment per cow	\$1,414	\$1,306	\$	\$	\$
Asset turnover ratio	0.83	0.64			
<u>Profitability</u>					
Net farm income without appreciation	\$89,009	\$11,786	\$	\$	\$
Net farm income with appreciation	\$73,150	\$-18,507	\$	\$	\$
Labor & management income	** **********************************				•
per operator/manager	\$30,809	\$-19,241	\$	\$	\$
Rate of return on equity					
capital with appreciation	1.6%	-13.9%	%	%	%
Rate of return on all capital		40.0			
with appreciation	1.9%	-10.8%	%	%	%
Financial Summary	\$666.600	ΦE (Q (22	¢	¢	¢
Farm net worth, end year	\$666,629	\$568,633	\$	5	\$
Debt to asset ratio	0.14	0.22	Ф	Φ	Φ
Farm debt per cow	\$790	\$1,168	\$	\$	\$

^{*}Average for the year.

RECEIPTS AND EXPENSES PER COW AND PER HUNDREDWEIGHT Same 9 New York Dairy Farm Renters, 2008 & 2009

	2008		2009		
Item	Per Cow	Per Cwt.	Per Cow	Per Cwt.	
Average Number of Cows	130		138		
Cwt. of Milk Sold		27,904		31,391	
ACCRUAL OPERATING RECEIPTS					
Milk	\$4,223	\$19.62	\$3,135	\$13.76	
Dairy cattle	481	2.24	\$5,135 279	1.22	
Dairy calves	64	0.30	29	0.13	
Other livestock	6	0.03	29	0.13	
Crops	126	0.59	-41	-0.18	
Miscellaneous receipts	125	0.58	<u> 262</u>	1.15	
Total Receipts	\$5,025	\$23.35	\$3,666	\$16.09	
•	\$5,025	\$23.33	φ3,000	\$10.09	
ACCRUAL OPERATING EXPENSES					
Hired labor	\$ 268	\$ 1.25	\$ 288	\$ 1.26	
Dairy grain & concentrate	1,293	6.01	1,078	4.73	
Dairy roughage	163	0.76	180	0.79	
Nondairy feed	0	0.00	0	0.00	
Professional nutritional services	8	0.04	3	0.01	
Machine hire/rent/lease	132	0.61	88	0.39	
Machinery repair & vehicle expense	206	0.96	169	0.74	
Fuel, oil & grease	207	0.96	124	0.54	
Replacement livestock	29	0.14	34	0.15	
Breeding	85	0.40	54	0.24	
Veterinary & medicine	114	0.53	114	0.50	
Milk marketing	242	1.13	212	0.93	
Bedding	50	0.23	60	0.26	
Milking supplies	92	0.43	101	0.45	
Cattle lease	0	0.00	0	0.00	
Custom boarding	36	0.17	135	0.59	
bST expense	35	0.16	45	0.20	
Livestock professional fees	14	0.06	14	0.06	
Other livestock expense	46	0.21	40	0.18	
Fertilizer & lime	151	0.70	81	0.36	
Seeds & plants	76	0.35	78	0.34	
Spray/other crop expense	73	0.34	35	0.16	
Crop professional fees	15	0.07	1	0.00	
Land, building, fence repair	40	0.19	24	0.10	
Taxes	28	0.13	16	0.07	
Real estate rent/lease	217	1.01	197	0.87	
Insurance	62	0.29	50	0.22	
Utilities	160	0.75	143	0.63	
Interest paid	30	0.14	29	0.13	
Other professional fees	44	0.20	21	0.09	
Miscellaneous	19 02.025	0.09	<u>22</u>	0.10	
Total Operating Expenses	\$3,935	\$18.29	\$3,437	\$15.08	
Expansion Livestock	266	1.23	49	0.22	
Extraordinary Expense	0	0.00	0	0.00	
Machinery Depreciation	124	0.58	86	0.38	
Real Estate Depreciation	13 04.229	0.06	<u>8</u>	0.03	
Total Expenses	\$4,338	\$20.16	\$3,580	\$15.71	
Net Farm Income Without Appreciation	\$ 686	\$ 3.19	\$ 86	\$ 0.38	

Condensed Summary and Selected Business Factors for Two Herd Size Groups

CONDENSED FARM BUSINESS SUMMARY FOR TWO RENTER GROUPS BY HERD SIZE 13 New York Dairy Farm Renters, 2009

		Farm Renters with 100 Cows		arm Renters with
Item	Per Cow	Per Cwt.	Per Cow	Per Cwt.
ACCRUAL EXPENSES				
Hired labor	\$ 187	\$ 0.91	\$ 540	\$ 2.32
Dairy grain & concentrate	1,179	5.73	1,160	4.97
Dairy roughage	52	0.25	151	0.65
Nondairy feed	0	0.00	0	0.00
Professional nutritional services	0	0.00	1	0.01
Machine hire, rent & lease	35	0.17	120	0.51
Machine repairs & farm vehicle expense	143	0.69	205	0.88
Fuel, oil & grease	168	0.82	131	0.56
Replacement livestock	28	0.14	14	0.06
Breeding	47	0.23	40	0.17
Veterinary & medicine	84	0.41	102	0.44
Milk marketing	248	1.21	182	0.78
Bedding	47	0.23	53	0.23
Milking supplies	66	0.32	106	0.46
Cattle lease & rent	0	0.00	0	0.00
Custom boarding	0	0.00	110	0.47
bST expense	0	0.00	52	0.22
Livestock professional fees	12	0.06	13	0.05
Other livestock expense	107	0.52	40	0.17
Fertilizer & lime	81	0.39	141	0.61
Seeds & plants	55	0.26	74	0.32
Spray & other crop expense	17	0.08	57	0.25
Crop professional fees	1	0.01	6	0.02
Land, building & fence repair	7	0.03	68	0.29
Taxes & rent	178	0.86	191	0.81
Utilities	124	0.60	108	0.46
Interest paid	91	0.44	76	0.33
Other professional fees	14	0.07	23	0.10
Misc. (including insurance)	6	0.03	<u>66</u>	0.28
Total Operating Expenses	\$3,047	\$14.81	\$3,861	\$16.55
Expansion livestock	0	0.00	94	0.40
Extraordinary expense	0	0.00	25	0.11
Machinery depreciation	176	0.85	69	0.30
Building depreciation	25	0.12	26	0.11
Total Accrual Expenses	\$3,248	\$15.79	$$\frac{28}{4,075}$	\$17.47
ACCRUAL RECEIPTS	Ψ3,210	Ψ13.77	Ψ1,073	Ψ17.17
Milk sales	\$2,707	\$13.16	\$3,300	\$14.14
Dairy cattle	38	0.18	292	1.25
Dairy calves	32	0.15	45	0.19
Other livestock	-2	-0.01	1	0.00
Crops	-51	-0.25	-13	-0.05
Miscellaneous receipts	475	<u>2.31</u>	<u> 279</u>	1.19
Total Accrual Receipts	\$3,199	\$15.55	\$3,902	\$16.73
PROFITABILITY ANALYSIS (Total)	φυ,199	ψ13.33	ψ5,902	ψ10.73
Net farm income (without appreciation)		\$-3,140		\$-58,631
Net farm income (with appreciation)		\$-3,140 \$-11,859		\$-96,871
Labor & management income/operator	mragistis-	\$-24,834 15.50/		\$-60,151 17,104
Rates of return on: Equity capital without ap		-15.5%		-17.1%
Equity capital with appre		-18.0%		-21.2%
All capital without appre		-0.2%		-7.9%
All capital with apprecian	tion	-0.3%		-10.2%

SELECTED BUSINESS FACTORS FOR TWO RENTER GROUPS BY HERD SIZE $13\ \mathrm{New}\ \mathrm{York}\ \mathrm{Dairy}\ \mathrm{Farm}\ \mathrm{Renters}, 2009$

Item	6 Dairy Farm Renters with < 100 Cows	7 Dairy Farm Renters with > 100 Cows
Cropping Program Analysis		
Total acres rented	360	815
Tillable acres rented	272	748
Hay crop acres*	218	495
Corn silage acres*	51	329
Hay crop, tons DM/acre*	1.7	3.6
Corn silage, tons/acre*	13.0	15.8
Forage DM per cow, tons*	8.9	9.4
Tillable acres/cow*	4.2	2.6
Fertilizer & lime expense/tillable acre*	\$26.88	\$74.42
Machinery cost/tillable acre*	\$152	\$252
Dairy Analysis		
Number of cows	65	340
Number of heifers	46	281
Milk sold, pounds	1,340,466	7,925,749
Milk sold/cow, pounds	20,569	23,331
Operating cost of producing milk/cwt.	\$12.42	\$14.37
Total cost of producing milk/cwt.	\$18.51	\$16.78
Price/cwt. milk sold	\$13.16	\$14.14
Purchased dairy feed/cow	\$1,231	\$1,311
Purchased dairy feed/cwt. milk	\$5.99	\$5.62
Purchased grain & concentrate as % of milk receipts	41%	35%
Purchased feed & crop expense/cwt. milk	\$6.73	\$6.81
Capital Efficiency		
Farm capital/worker	\$188,430	\$2113,385
Farm capital/cow	\$6,563	\$5,057
Real estate/cow	\$595	\$352
Machinery investment/cow	\$2,241	\$1,047
Asset turnover ratio	0.47	0.75
Labor Efficiency		
Worker equivalent	2.27	8.05
Operator/manager equivalent	1.31	1.96
Milk sold/worker, lbs.	591,165	984,973
Cows/worker	29	42
Labor cost/cow	\$1,039	\$789
Financial Measures		
Percent equity	80%	48%
Debt/asset ratio - long term	0	0.82
Debt/asset ratio - intermediate & current	0.23	0.49
Change in net worth with appreciation	\$-29,761	\$-226,647
Total farm debt per cow	\$1,308	\$-220,047 \$2,572
Debt payments made per cow	\$391 150/	\$116
Debt payments as % of milk sales	15%	4%
Amount available for debt service	\$5,861	\$-49,935
Debt coverage ratio for 2009	-0.40	-1.69

^{*}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 13 New York Dairy Farm Renters, 2009

S	Size of Bu	siness	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)
13.1	558	13,667,447	26,027	4.3	20	51	1,237,789
4.8	196	4,210,485	23,561	2.6	15	42	855,550
2.8	94	1,907,899	20,856	2.0	12	32	680,425
1.9	56	1,041,387	16,272	1.2	8	27	511,044

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)
\$760	30%	\$304	\$973	\$1,012	\$5.54
1,049	36	515	1,413	1,469	6.39
1,280	40	757	1,694	1,664	6.76
1,476	48	924	2,027	1,831	9.10

V	alue and Cost of Produ	iction		Profitability	
Milk Receipts Per Cow	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)	(12)	(4)	(4)	(4)
\$3,596 3,171 2,914 2,241	\$11.52 12.80 14.42 15.39	\$15.86 17.95 18.79 20.23	\$29,838 -6,358 -18,243 -191,241	\$61,616 13,802 -12,819 -154,264	\$27,797 -13,558 -44,725 -138,529

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

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 7, 8, 11, and 15 of this publication. References to DFBS output page numbers for participating dairy farmers are provided in the table headings.

FINANCIAL ANALYSIS CHART 13 New York Dairy Farm Renters, 2009

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)
\$ 99	\$451	1.55	3%	\$357
244	318	0.92	6	1,083
376	107	0.38	16	2,367
632	-498	-1.13	42	3,711

	Solvency	/	Pro	fitability
	-	Debt/Asset Ratio	Percent Rate	of Return on (with
Leverage	Percent	Current &	Appı	reciation):
Ratio**	Equity	Intermediate	Equity	Investment***
(7)	(7)	(7)	(4)	(4)
0.05	97%	0.05	-10%	-6%
0.39	83	0.27	-14	-11
1.23	53	0.52	-22	-14
3.22	30	0.73	-63	-20

	Efficiency (Capital)		
Asset	Machinery	Total Farm	Change in
Turnover	Investment	Assets	Net Worth
Ratio	Per Cow	Per Cow	With Appreciation
(14)	(14)	(14)	(8)
1.40	\$528	\$8,305	\$-60,559
0.74	1,330	6,220	-168,510
0.52	1,954	5,279	-185,400
0.36	3,008	3,501	-497,156

^{*}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 **M**easurable.
- 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

W	orksl	heet	for	Settin	g G	oals	(cont	inued)
---	-------	------	-----	--------	-----	------	-------	--------

II.	Goals	

What	How	When	Who is Responsible
Summarize Your Business P			
The Farm Business a weaknesses of your farm busing improvement.	and Financial Analysis Charts of siness. Identify three major str	on pages 26 and 27 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 5)

Accrual Receipts - (defined on page 6)

Annual Cash Flow Statement - (defined on page 13)

Appreciation - (defined on page 7)

Asset Turnover Ratio - (defined on page 21)

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 15)

<u>Cash Paid</u> - (defined on page 4)

<u>Cash Receipts</u> - (defined on page 6)

<u>Change in Accounts Payable</u> - (defined on page 5)

Change in Accounts Receivable - (defined on page 6)

Change in Inventory - (defined on page 4)

<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 10 and 11 of the data entry form.

<u>Culling Rate</u> - (defined on page 19)

<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 11)

<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 8)

<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 11)

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

Net Farm Income - (defined on page 7)

Net Farm Income from Operations Ratio - (defined on page 8)

<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 20)

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

<u>Opportunity Cost</u> - The cost or charge made for using a resource based on its value in its most likely alternative use. The opportunity cost of a farmer'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 20)

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 8)

Return on Total Capital - (defined on page 8)

Return to Operators' Labor, Management, and Equity Capital - (defined on page 7)

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 20)

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	Author(s)
2010-17	New York Economic Handbook, 2011	`	Extension Staff
2010-16	A Compilation of Smart Marketing Articles, January 2008-October 2010		Park, K. and T. M. Schmit
2010-15	Economic Analysis of the Financial Impact of the Grape Leafroll Virus (GLRV) in the Finger Lakes Region of New York		Gomez, M., S. Atallah, T. Martinson, M. Fuchs, and G. White
2010-14	An Economic Examination of Alternative Organic Cropping Systems in New York State		Chan, S., Caldwell, B. and B. Rickard
2010-13	Organic Agriculture in New York State		Henehan, B. and J. Li
2010-12	2010 Federal Reference Manual for Regional Schools, Income Tax Management and Reporting for Small Businesses and Farms	(\$25.00)	Bouchard G. and J. Bennett
2010-11	2010 New York State Reference Manual for Regional Schools, Income Tax Management and Reporting for Small Businesses and Farms.	(\$25.00)	Bennett, J. and K. Bennett
2010-10	Dairy Farm Business Summary, Intensive Grazing Farms, New York, 2009		Conneman, G., Karszes, J., Grace, J., Murray, P., Carlberg, V., Benson, A., Staehr, A., Ames, M., Glazier, N., Anderson, J. and L. Putnam
2010-09	Profiles of Successful Farm Transfers on Long Island		Staehr, A.
2010-08	Dairy Farm Business Summary, New York Small Herd Farms, 80 Cows or Fewer, 2009	(\$16.00)	Knoblauch, W., Putnam, L., Kiraly, M. and J. Karszes
2010-07	Dairy Farm Business Summary, Hudson and Central New York Region, 2009	(\$12.00)	Knoblauch, W., Putnam, L., Karszes, J., Buxton, S., Shoen, K., Hadcock, S., Kiraly, M., Hulle, L., Smith, R, Skellie, K., Conneman, G. and R. Overton
2010-06	Dairy Farm Business Summary, Northern NY Region, 2009	(\$12.00)	Knoblauch, W., Putnam, L., Karszes, J., Murray, P., Vokey, F., Prosper, J., Deming, A., Balbian, D., Buxton, S., Manning, J., Collins, B. and R. Overton

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