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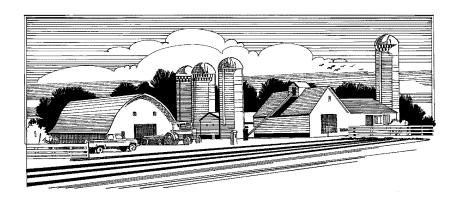
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NEW YORK DAIRY FARM RENTERS 2003



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2003 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 six 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 31 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 on 59 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 31 farms in Columbia, Delaware, Erie, Franklin, Genesee, Orange, Otsego, Saratoga, Schenectady, Schuyler, Seneca, Steuben, Sullivan, Tompkins, and Washington Counties are summarized in this publication (see Figure 1 on page 2). The 59 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 major factor. The farm owners are often father and mother and 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 were similar when calculated per tillable acre. However, on a per cow basis, these real estate costs averaged \$405 per cow on the owned dairy farms compared to \$295 on the rented farms. This accounts for a \$14,875 difference in costs between owned and rented farms. With this difference in cost structure, the renters had higher rates of return on equity and all capital (with appreciation).

¹Wayne A. Knoblauch, Linda D. Putnam and Jason Karszes, <u>Dairy Farm Management Business Summary</u>, <u>New York</u>, <u>2003</u>, R.B. 2004-13, December 2004.

Figure 1. Location of 31 New York Dairy Farm Renters, 2003.

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 31 New York Dairy Farm Renters, 2003

Type of Business	Number	bST Usage	Num	<u>ber</u>
Single proprietorship	22	Used consistently	g)
Partnership	7	Used inconsistently	3	3
Limited liability corporation	2	Started usage in 2003	1	[
Subchapter S or C corporation	0	Stopped usage in 2003	1	[
•		Not used in 2003	18	3
		Average percent usage, if used	39%	, D
Milking System	<u>Number</u>			
Dumping station	0	<u>Labor Force*</u>	My Farm	Average
Pipeline	19	Operator 1	mo.	13.8
Herringbone parlor	10	Operator 2	mo.	6.3
Other parlor	2	Family paid	mo.	2.0
-		Family unpaid	mo.	3.7
Type of Barn	<u>Number</u>	Hired	mo.	14.5
Stanchion	20	Total	mo.	40.3
Freestall	10	Worker equivalent		
Combination	1	$(total \div 12)$		3.36
Dairy Records Service	Number	Operator/Manager Equivalent		1.69
Testing service	25			
On-farm system	2	Land Use	My Farm	Average
Other	0	Total acres rented		265
None	4	Tillable acres rented		188
Business Record System	Number	Number of Cows	My Farm	Average
Account book	14	Beg. year (owned)	<u> </u>	121
Accounting service	5	End year (owned & leased)		132
On-farm computer	12	Average for year (owned & leased)		128
Other	0	riverage for year (owned & leased)		120
	Ü	Breed of Herd	My Farm	Percent
Milking Frequency	Number	Holstein	171 y 1 WIIII	88
2 times a day	28	Jersey		5
3 times a day	3	Other		7

^{*}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 31 rented farms include the single proprietorship, pipeline milking system, stanchion or conventional stall barn, two time a day milking, herd records with a testing service, and an account book or on-farm computer record system. Thirty-nine percent of the renters were using on-farm computers compared to 36 percent of the owners.

The average size of the labor force on the rented farms was 23 percent less than the 4.13 worker equivalent on owned farms. The rented farms averaged 188 tillable acres compared to 380 tillable acres on the 59 owned dairy farms. The owned farms averaged 31 cows per worker, compared to 38 cows per worker on the rented farms. In 2003, the rented farms used labor resources more efficiently than the owned farms.

Income Statement

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

CASH AND ACCRUAL FARM EXPENSES 31 New York Dairy Farm Renters, 2003

Expense Item	Cash Paid	-	Change in Inventory or Prepaid Exp.	+	Change in Accounts Payable	Accrual = Expenses	Percent of Total
Hired Labor	\$ 36,252		\$ 0	<<*	\$ 325	\$ 36,577	11
<u>Feed</u>							
Dairy grain & concentrate	105,215		-954		7,175	113,344	34
Dairy roughage	21,733		-3,295		612	25,640	8
Nondairy	65		0		0	65	<1
Professional nutritional services	217		0	<<	-64	153	<1
Machinery hire rent & lease	7.405		0	//	5	7.500	2
Machinery, hire, rent & lease	7,495		0	<<	5	7,500	2
Machinery repair & farm veh. exp.	16,195		65		652	16,782	5 3
Fuel, oil & grease	9,372		3		62	9,430	3
Livestock Replacement livesteels	2.712		0	<<	1.40	2 061	1
Replacement livestock	2,713		0	~~	148	2,861	1
Breeding Vet & medicine	5,175		30		-27 38	5,118	2
	11,378		6 0		38 28	11,410	3 5
Milk marketing	16,902			<<	28 193	16,930	2
Bedding Millian amplica	5,382		-26			5,601	3
Milking supplies Cattle lease & rent	9,113		-5		-260	8,857	
	535		0	<<	5	540	<1
Custom boarding	2,624			<<	343	2,967	1
bST expense	4,159		-40		38	4,238	1
Livestock professional fees	1,422		0	<<	9	1,431	<1
Other livestock expense	3,663		50		-2	3,611	1
Crops	4.706		1.020		271	6 117	2
Fertilizer & lime	4,726		-1,020		371	6,117	2
Seeds & plants	2,317		-1,449		0	3,766	1
Spray, other crop expense	2,266		-4		48	2,319	1
Crop professional fees Real Estate	127		0	<<	0	127	<1
Land, building & fence repair	3,944		-102		123	4,169	1
Taxes	2,697		0	<<	41	2,739	1
Rent & lease	16,169		0	<<	1,016	17,185	5
<u>Other</u>							
Insurance	5,104		0	<<	0	5,104	2
Utilities (farm share)	10,715		0	<<	383	11,098	3
Interest paid	7,497		0	<<	64	7,561	2
Other professional fees	895		0	<<	10	905	<1
Miscellaneous	1,505		0		15	1,520	<1
Total Operating	\$317,569		\$ -6,740		\$ 11,354	\$ 335,663	100
Expansion livestock	\$ 13,275		\$ 0	<<	\$ 0	\$ 13,275	
Extraordinary expense	0		0	<<	0	0	
Machinery depreciation						16,154	
Building depreciation						9,556	
TOTAL ACCRUAL EXPENSES						\$ 374,648	

^{*}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, 2004 rent paid in 2003. 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 o - Prepaid Exp		Change in Accounts Payable	Accrual = Expenses
Hired Labor	\$	\$	<<*	\$	\$
Feed					
Dairy grain & concentrate					
Dairy roughage					
Nondairy					
Professional nutritional services			. <<		
Machinery			•		
Machinery, hire, rent & lease			<<		
Machinery repair & farm veh. exp.			-		
Fuel, oil & grease			•		
Livestock			•		
Replacement livestock			<<		
Breeding			-		
Vet & medicine					
Milk marketing			<<		
Bedding			•		-
Milking supplies			•		
Cattle lease & rent			<<		
Custom boarding			<<		
bST expense					
Livestock professional fees			<<		
Other livestock expense					
Crops			-		
<u>Crops</u> 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	\$	\$	<u>-</u>	\$	\$
Expansion livestock	\$	\$. <<	\$	\$
Extraordinary expense	\$	\$. <<	\$	\$
Machinery depreciation					
Building depreciation					
TOTAL ACCRUAL EXPENSES					\$

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

CASH AND ACCRUAL FARM RECEIPTS 31 New York Dairy Farm Renters, 2003

Receipt Item	Cash Receipts	+ Change in Inventory	Change in + Accounts Receivable	= Accrual Receipts
Milk Sales	\$ 343,365		\$ 3,766	\$ 347,131
Dairy cattle	17,430	\$ 13,565	0	30,995
Dairy calves	5,014	3,573	0	8,587
Other livestock	1,357	-20	0	1,337
Crops	715	8,538	65	9,317
Government receipts	21,095	0*	-279	20,816
Custom machine work	2,339		58	2,397
Gas tax refund	213		0	213
Other	2,564		0	2,564
- Nonfarm noncash capital**		<u>(-)</u> 0		<u>(-)</u> 0
Total Accrual Receipts	\$ 394,092	\$ 25,656	\$ 3,609	\$ 423,357

^{*}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	\$				\$	9	S
Dairy cattle			\$				
Dairy calves							
Other livestock							
Crops							
Government receipts							
Custom machine work							
Gas tax refund							
Other							
- Nonfarm noncash capital**			(-)			(-)
Total Accrual Receipts	\$ 		\$		\$	9	S

^{**}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, 2003

Item	31 Dairy Farm Renters	59 Dairy Farm Owners	My Farm
Total accrual receipts	\$ 423,357	\$ 427,299	\$
+ Appreciation: Livestock	13,143	8,183	
Machinery	5,152	6,226	
Real Estate	20,623	20,459	
Other Stock & Certificates	<u> 157</u>	224	
= Total Including Appreciation	\$ 462,432	\$ 462,391	\$
- Total accrual expenses	374,648	391,873	
= Net Farm Income (with appreciation)	\$ 87,784	\$ 70,518	\$
Per cow	\$ 686	\$ 542	\$
Net Farm Income (without appreciation)	\$ 48,709	\$ 35,426	\$
Per cow	\$ 381	\$ 273	\$

<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.

Item	31 Dairy Farm Renters	59 Dairy Farm Owners	My Farm
Net farm income without appreciation	\$ 48,709	\$ 35,426	\$
- Family labor unpaid @ \$2,200 per month	- 8,190	- 8,729	-
- Interest on average equity capital @ 5% real rate	<u>- 17,601</u>	<u>- 37,159</u>	
= Labor & Management Income	\$ 22,918	\$ -10,462	\$
Labor & Management Income per Operator/Manager	\$ 13,561	\$ -6,539	\$

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, 2003

	31 Dairy	59 Dairy	
Item	Farm Renters	Farm Owners	My Farm
Net farm income with appreciation	\$ 87,784	\$ 70,518	\$
- Family labor unpaid @ \$2,200 per month	\$ 8,190	\$ 8,729	\$
- Value of operators' labor & management	49,761	41,553	
= Return to equity capital with appreciation	\$ 29,833	\$ 20,236	\$
+ Interest paid	<u>7,561</u>	12,912	
= Return to all capital with appreciation	\$ 37,394	\$ 33,148	\$
Return to equity capital without appreciation	\$ -9,242	\$ -14,856	\$
Return to all capital without appreciation	\$ -1,681	\$ -1,944	\$
Rate of return on average equity capital:			
with appreciation	8.5%	2.7%	
without appreciation	-2.6%	-2.0%	
Rate of return on all capital:			
with appreciation	6.7%	3.1%	
without appreciation	-0.3%	-0.2%	
Net farm income from operations ratio	0.12	0.08	

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.

2003 FARM BUSINESS & NONFARM BALANCE SHEET 31 New York Dairy Farm Renters

				Farm Liabilities				
Farm Assets		Jan. 1	Dec. 31	& Net Worth		Jan. 1		Dec. 31
<u>Current</u>				Current				
Farm cash, checking				Accounts payable	\$	13,866	\$	25,220
& savings	\$	6,057	\$ 10,442	Operating debt		12,411		9,812
Accounts receivable		25,616	29,226	Short term		707		971
Prepaid expenses		0	0	Advanced gov't. receipt		0		0
Feed & supplies		65,298	 67,095	Current portion:				
Total Current	\$	96,971	\$ 106,763	Intermediate		24,609		28,664
				Long term		2,800		2,343
				Total Current	\$	54,393	\$	67,010
<u>Intermediate</u>				<u>Intermediate</u>				
Dairy Cows:				Structured debt				
owned	\$	151,440	\$ 167,374	1-10 years	\$	96,789	\$	141,635
leased		15	507	Financial lease				
Heifers		76,829	91,139	(cattle & machinery)		4,369		3,479
Bulls & other livestock		808	824	Farm Credit stock		415		533
Mach. & equip. owned		111,259	126,950	Total Intermediate	\$	101,573	\$	145,647
Mach. & equip. leased		4,354	2,972					
Farm Credit stock		415	533	Long Term				
Other stock & cert.		3,594	 5,025	Structured debt				
Total Intermediate	\$	348,714	\$ 395,324	\geq 10 years	\$	17,788	\$	24,781
Long Term				Financial lease				
Land & buildings:				(structures)		1,131		582
owned	\$	53,764	\$ 110,131	Total Long Term	\$	18,919	\$	25,363
leased		1,131	 582					
Total Long Term	\$	54,895	\$ 110,713	Total Farm Liabilities	\$	174,885	\$	238,020
Total Farm Assets	\$	500,580	\$ 612,801	FARM NET WORTH	\$	325,695	\$	374,781
(Average for 14 farms rep	ortin	g)		Nonfarm Liabilities*				
Nonfarm Assets*		Jan.1	Dec. 31	& Net Worth	J	an. 1	I	Dec. 31
Personal cash, checking				Nonfarm Liabilities	\$	9,116	\$	7,845
& savings	\$	17,905	\$ 24,181	NONFARM NET WORTH	\$	60,749	\$	84,357
Cash value life ins.		2,813	2,974					
Nonfarm real estate		27,500	29,643	FARM & NONFARM**	J	an. 1	I	Dec. 21
Auto (personal share)		4,893	5,686	Total Assets	\$	570,445	\$	705,003
Stocks & bonds		10,697	16,682	Total Liabilities		184,001		245,865
Household furn.		5,250	5,607		-	· · · · · · · · · · · · · · · · · · ·		•
All other		807	7,429	TOTAL FARM & NON-				
Total Nonfarm	\$	69,865	\$ 92,202	FARM NET WORTH	\$	386,444	\$	459,138

^{*}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 2003 that are for participation in the 2004 program are the end year balance and payments received in 2002 for participation in the 2003 program are the beginning year balance.

Date

2003 FARM BUSINESS & NONFARM BALANCE SHEET

			Farm Liabilities		
Farm Assets	Jan. 1	Dec. 31	& Net Worth	Jan. 1	Dec. 31
Current			<u>Current</u>		
Farm cash, checking			Accounts payable		
& savings			Operating debt		
Accounts receivable			Short term		
Prepaid expenses			Advanced gov't. receipt		
Feed & supplies			Current portion:		
Total Current			Intermediate		
			Long term		
T 4 12 4			Total Current		
<u>Intermediate</u>			<u>Intermediate</u>		
Dairy Cows:					
owned			Financial lease		
leased Heifers			-		
Bulls & other livestock			(cattle & machinery) Farm Credit stock		
			Total Intermediate		
Mach. & equip. owned Mach. & equip. leased			1 otal intermediate		
Farm Credit stock			Long Term		
Other stock & cert.			Long Term		
Total Intermediate					
Long Term			Financial lease		
Land & buildings:			(structures)		
owned			Total Long Term		
leased			Town Bong Term		
Total Long Term			Total Farm Liabilities		
_			-		
Total Farm Assets			FARM NET 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 FARM & NONFA	RM			Jan. 1	Dec. 31
Total Farm and Nonfarm A				V W 1	200.01
Less Total Farm & Nonfarm					
Farm & Nonfarm Net Wort					
- I I I I I I I I I I I I I I I I I I I					

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 Dairy Farm Renters and Owners, 2003

Item	31 Dairy Farm Renters	59 Dairy Farm Owners	My Farm
<u>Financial Ratios - Farm</u> :			
Percent equity	61%	71%	
Debt/asset ratio: total	0.39	0.29	
long term	0.23	0.22	
intermediate & current	0.42	0.35	
Leverage ratio	0.64	0.42	
Current ratio	1.59	1.64	
Working capital \$39,753 as % of total expenses	11%	(\$49,086) 13%	%
Farm Debt Analysis:			
Accounts payable as % of total debt	11%	5%	%
Long term liabilities as a % of total debt	11%	32%	
Current & intermediate liabilities as a % of total debt	89%	68%	
Cost of term debt (weighted average)	4.2%	4.6%	
Farm Debt Levels Per Cow:			
Total farm debt	\$ 1,803	\$ 2,424	\$
Long term debt	\$ 192	\$ 776	\$
Intermediate & long term debt	\$ 1,296	\$ 1,841	\$
Intermediate & current debt	\$ 1,611	\$ 1,648	¢

<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, 2003

Item	31 Dairy Farm Renters			Dairy Owners	My Farm		
Value beginning of year		\$ 111,259		\$ 211,077		\$	
Purchases	\$ 27,254		\$ 22,107		\$	_	
+ Nonfarm noncash transfer	0		0			_	
- Net Sales	560		330			_	
- Depreciation	16,154		23,202			_	
= Net investment		10,540		-1,425			
+ Appreciation		5,152		6,226			
= Value end of year		\$ 126,950		\$ 215,878		\$	

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) 31 New York Dairy Farm Renters, 2003

Item	Average	My Farm
Beginning of year farm net worth	\$ 325,695	\$
Net farm income without appreciation	\$ 48,709	\$
+ Nonfarm cash income	+ 17,162	+
- Personal withdrawals & family expenditures excluding nonfarm borrowings	<u>- 45,610</u>	
RETAINED EARNINGS	+\$ 20,261	+ \$
Nonfarm noncash transfers to farm	\$ 0	\$
+ Cash used in business from nonfarm capital	+ 2,119	+
- Note/mortgage from farm real estate sold (nonfarm)	<u> </u>	
CONTRIBUTED/WITHDRAWN CAPITAL	+\$ 2,119	+ \$
Appreciation	\$ 39,075	\$
- Lost capital	<u>- 11,693</u>	
CHANGE IN VALUATION EQUITY	+\$ 27,382	+ \$
IMBALANCE/ERROR	<u>- \$ 676</u>	- \$
End of year farm net worth*	= \$ 374,781	= \$
Change in net worth with appreciation.	\$ 49,086	\$
Change in Net Worth		
Without appreciation	\$ 10,011	\$
With appreciation	\$ 49,086	\$

^{*}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 31 New York Dairy Farm Renters, 2003

Item		Average	
Item		Average	
Cash Flow from Operating Activities			
Cash farm receipts	\$ 394,092		
- Cash farm expenses	317,569		
- Extraordinary expense	0		
= Net cash farm income		\$ 76,523	
Personal withdrawals & family expenses including nonfarm debt payments	\$ 45,703		
- Nonfarm income	17,162		
- Net cash withdrawals from the farm		\$ 28,541	
= Net Provided by Operating Activities			\$ 47,982
Cash Flow From Investing Activities			
Sale of assets: Machinery	\$ 560		
+ real estate	0		
+ other stock & certificates	0		
= Total asset sales		\$ 560	
Capital purchases: expansion livestock	\$ 13,275	·	
+ machinery	27,254		
+ real estate	56,992		
+ other stock & certificates	1,273		
- Total invested in farm assets		\$ 98,794	
= Net Provided by Investment Activities			\$ -98,234
Cash Flow From Financing Activities			
Money borrowed (intermediate & long term)	\$ 77,591		
+ Money borrowed (short term)	697		
+ Increase in operating debt	0		
+ Cash from nonfarm capital used in business	2,119		
+ Money borrowed - nonfarm	93		
= Cash inflow from financing		\$ 80,500	
Cash inflow from mancing		\$ 60,500	
Principal payments (intermediate & long term)	\$ 22,153		
+ Principal payments (short term)	433		
+ Decrease in operating debt	2,599		
- Cash outflow for financing		\$ 25,18 <u>5</u>	
= Net Provided by Financing Activities		$\frac{\phi}{}$ 23,163	\$ 55,315
- Net Flovided by Financing Activities			\$ 33,313
<u>Cash Flow From Reserves</u>			
Beginning farm cash, checking & savings		\$ 6,057	
- Ending farm cash, checking & savings		10,442	
= Net Provided from Reserves			\$ -4,385
<u>Imbalance (error)</u>			\$ 678

ANNUAL CASH FLOW STATEMENT

Item		My Farm	
<u>Cash Flow from Operating Activities</u>			
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			\$
<u>Cash Flow From Investing Activities</u>			
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		\$	
= Net Provided by Investment Activities			\$
Cash Flow From Financing Activities			
Money borrowed (intermediate & long term)	\$		
+ Money borrowed (short term)			
+ Increase in operating debt			
+ Cash from nonfarm capital used in business			
+ Money borrowed - nonfarm			
= Cash inflow from financing		\$	
C		· ——	
Principal payments (intermediate & long term)	\$		
+ Principal payments (short term)	· 		
+ Decrease in operating debt			
- Cash outflow for financing		\$	
euch cumon for municing			
= 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			\$
<u>Imbalance (error)</u>			\$

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 2004. The cash flow projection worksheet on the next page can be used to estimate repayment ability, which can then be compared to planned 2004 debt payments shown below.

FARM DEBT PAYMENTS PLANNED Same 15 New York Dairy Farm Renters, 2002 & 2003*

	Average				My	Farm				
		2003 I	Paym	nents		Planned	 2003 Pa	ayments	}	Planned
Debt Payments		Planned		Made		2004	Planned	M	ade	2004
Long-term	\$	3,050	\$	2,978	\$	2,502	\$	\$		\$
Intermediate-term		15,789		15,293		23,351				
Short-term		333		359		0				
Operating (net red.)		6,398		3,669		565				
Accounts payable										
(net reduction)		587		327	_	0				
Total	\$	26,157	\$	22,626	\$	26,418	\$	\$		\$
Per cow	\$	281	\$	243			\$	\$		
Per cwt. 2003 milk	\$	1.35	\$	1.17			\$	\$		
Percent of total										
2003 receipts		9%		8%						
Percent of 2003										
milk receipts		10%		9%						

^{*}Farms that completed Dairy Farm Business Summaries for both 2002 and 2003.

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, 2002) that could have been made with the amount available for debt service in 2003. Farmers that did not participate in DFBS last year will find in their report coverage ratios based on planned debt payments for 2004.

COVERAGE RATIOS
Same 15 New York Dairy Farm Renters, 2002 & 2003

		· · · · · · · · · · · · · · · · · · ·			
Item	1	Average	Item	N	⁄Iy Farm
Cash Flow Coverage Ratio			Debt Coverage Ratio		
Cash farm receipts	\$	299,766	Net farm income (w/o appreciation)	\$	40,637
- Cash farm expenses		231,658	+ Depreciation		14,049
+ Interest paid (cash)		4,795	+ Interest paid (accrual)		4,795
 Net personal withdrawals from farm* 		36,530	- Net personal withdrawals from farm*		36,530
(A) = Amount Available for Debt Service	\$	36,373	(A') = Repayment Capacity	\$	22,951
(B) = Debt Payments Planned for 2002	\$	26,157	(B) = Debt Payments Planned for 2003	\$	26,157
(as of December 31, 2002)			(as of December 31, 2002)		
(A/B)=Cash Flow Coverage Ratio for 2003		1.39	(A'/B)=Debt Coverage Ratio for 2003		0.88
Same 59 Nev	w Yo	ork Dairy Fa	rm Owners, 2002 & 2003		
(A) = Amount Available for Debt Service	\$	40,435	(A') = Repayment Capacity	\$	47,904
(B) = Debt Payments Planned for 2003		55,442	(B) = Debt Payments Planned for 2003		55,442
(A/B)=Cash Flow Coverage Ratio for 2003		0.73	(A'/B)=Debt Coverage Ratio for 2003		0.86

^{*}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

	31 Dairy		M	/ Farm		Expected		2004
Item	Farm Renters		Total		Cow	Change		Projection
Average number of cows	128							
Accrual Operating Receipts	(per cow)	_						
Milk	\$ 2,712	\$_		\$			\$	
Dairy cattle	242	_						
Dairy calves	67	_						
Other livestock	10	_						
Crops	73	_						
Misc. receipts	203	_						
Total Accrual Operating Expenses	\$ 3,307	\$ _		\$			\$	
Hired labor	\$ 286	\$		\$			\$	
Dairy grain & concentrate	886	Ψ _					4	
Dairy roughage	200	_						
Nondairy feed	1	-						
Professional nutritional services	1	_						
Machinery hire, rent & lease	59	-						
Machinery repair & vehicle exp.	131	-						
Fuel, oil & grease	74	-						
	22	-		-				
Replacement livestock	40	-						
Breeding		-						
Vet & medicine	89	_						
Milk marketing	132	-						
Bedding	44	_						
Milking supplies	69	-						
Cattle lease	4	-						
Custom boarding	23	_						
bST expense	33	_						
Livestock professional fees	11	_						
Other livestock expense	28	_						
Fertilizer & lime	48	_						
Seeds & plants	29	_						
Spray & other crop expense	18	_						
Crop professional fees	1	_						
Land, building & fence repair	33	_						
Taxes	21	_						
Real estate rent & lease	134	_						
Insurance	40	_						
Utilities	87	_						
Misc. & other professional fees	19	_						
Total Less Interest Paid	\$ 2,563	\$ -		s		<u> </u>	\$	
		Ψ -		4		·	Ψ	
Net Accrual Operating Income (without interest paid)	(Total)		¢				ø	
(without interest paid)	\$ 95,255		\$				\$	
- Change in livestock & crop inv.	25,656							
- Change in accounts receivable	3,609							
- Change in feed & supply inv.*	-6,740							
+ Change in accounts payable**	11,290						_	
NET CASH FLOW	\$ 84,020		\$				\$	
- Net family withdrawals	28,448							
Available for Farm Debt Payments								
& Investments	\$ 55,572		\$				\$	
- Farm debt payments	33,510							
Available for Farm Investments	\$ 22,062		\$				\$	
- Capital purchases: cattle,								
machinery & improvements	\$ 98,794		\$		\$	S	\$	
Additional Capital Needed	\$ 76,732		\$	-			\$	

^{*}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, 2003

Item		Average of Fari	My Farm			
Crop Yields	<u>Farms</u>	Acres	Prod/Acre*	Acres	Pro	od/Acre
Hay crop	25	156	2.38 tons DM			tons
					DM	
Corn silage	19	69	13.14 tons			tons
			4.32 tons DM			tons
					DM	
Other forage	2	30	0.54 tons DM			tons
					DM	
Total forage	25	211	4.28 tons DM			tons
-					DM	
Corn grain	2	138	111 bushels			bushels
Oats	0	0	0 bushels			bushels
Wheat	0	0	0 bushels			bushels
Other crops	2	32				
Tillable pasture	2	55				
Idle	3	28				
Total Tillable Acres	31	188				

^{*2003} average yields for 59 dairy farm owners in New York included: all hay crops, 2.6 tons dry matter per acre; corn silage, 15.6 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 New York Dairy Farm Renters and Owners, 2003

Item	31 Dairy Farm Renters	59 Dairy Farm Owners	My Farm
Total tillable acres per cow	1.47	2.92	
Total forage acres per cow	1.65	2.41	
Harvested forage dry matter, tons per cow	4.71	8.36	

Average fertilizer and lime, seeds and plants, and spray and other crop expenses have been computed per tillable acre for all farms in the first column of the table below. Additional expense items such as fuels, labor, and machinery repairs are not included. There was not a sufficient number of farms providing a breakdown in expenses for hay crop and corn. Rotational grazing was used on 3 rented farms and 13 owned farms.

CROP RELATED ACCRUAL EXPENSES New York Dairy Farm Renters and Owners, 2003

	Total Per	На	y Crop	All	Corn Silage	Corn Grain
	Tillable	Per	Per	Corn	Per Ton	Per Dry
Expense	Acre	Acre	Ton DM	Per Acre	DM	Shell Bu.
31 Dairy Farm Renters:			Not Su	ıfficient Data to	Report	
Fertilizer & lime	\$32.54					
Seeds & plants	20.03					
Spray & other crop expense	12.34					
Total	\$64.91					
59 Dairy Farm Owners:			Not Su	fficient Data to	Report	
Fertilizer & lime	\$23.53				1	
Seeds & plants	14.35					
Spray & other crop expense	14.28					
Total	\$52.16					
My Farm:						
Fertilizer & lime	\$	\$	\$	\$	\$	\$
Seeds & plants	Ψ	Ψ	Ψ	Ψ	Ψ	Ψ
Spray & other crop expense						
Total	s ———	\$	\$	s ———	s ———	\$
10111	Ψ	Ψ	Ψ	Ψ	¥	Ψ

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 New York Dairy Farm Renters and Owners, 2003

	Average Per	Tillable Acre	My Farm		
	31 Dairy	59 Dairy	Total	Per Tillable	
Item	Farm Renters	Farm Owners	Expenses	Acre	
Fuel, oil & grease	\$ 50.16	\$ 28.37	\$	\$	
Machine repair & farm veh. exp.	89.27	67.74			
Machine hire, rent & lease	39.89	16.55			
Interest (5%)	32.65	28.37			
Depreciation	<u>85.93</u>	61.06			
Total	\$297.90	\$202.09	\$	\$	

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, 2003

	Dairy Cows		Heifers					
		_		Bred		Open	(Calves
Item	No.	Value	No.	Value	No.	Value	No.	Value
31 Dairy Farm Renters:								
Beginning year (owned)	121	\$ 151,440	33	\$ 40,321	29	\$ 23,571	30	\$ 12,940
+ Change w/o apprec.		11,644		-2,063		3,984		3,573
+ Appreciation		4,290		334		2,037		6,440
End year (owned)	130	\$ 167,374	31	\$ 38,594	33	\$ 29,592	38	\$ 22,953
End including leased	132							
Average number	128		97	(all age group	s)			
59 Dairy Farm Owners:								
Beginning year (owned)	130	\$ 161,375	34	\$ 38,927	32	\$ 22,945	28	\$ 11,621
+ Change w/o apprec.		-21		18		3,378		28
+ Appreciation		4,467		1,924		1,257		511
End year (owned)	131	\$ 165,821	35	\$ 40,869	36	\$ 27,580	27	\$ 12,160
End including leased	132							
Average number	130		96	(all age group	s)			
My Farm:								
Beginning year (owned)		\$		\$		\$		\$
+ Change w/o apprec.		· 						·
+ 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, 2003

	31 Dairy	59 Dairy	
Item	Farm Renters	Farm Owners	My Farm
Total milk sold, lbs.	2,634,628	2,618,524	
Milk sold per cow, lbs.	20,635	20,098	
Average milk plant test, % butterfat	3.58%	3.70%	

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 2003

	31 Dairy Fa	31 Dairy Farm Renters		arm Owners	My Farm	
Item	Number	Percent*	Number	Percent*	Number	Percent*
Cows sold for beef	31	24.2	32	24.6		
Cows sold for dairy	2	1.6	1	0.8		
Cows died	8	6.3	7	5.4		
Culling rate**		30.5		30.0		

^{*}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, 2003

	31 Dairy Fa	arm Renters	59 Dairy Fa	59 Dairy Farm Owners		Farm
Item	Total	Per Cwt.	Total	Per Cwt.	Total	Per Cwt.
Accrual Cost of Producing M	<u>ilk</u>					
Operating cost	\$272,711	\$10.35	\$279,231	\$10.66	\$	\$
Purchased input cost	\$298,421	\$11.33	\$312,383	\$11.93	\$	\$
Total cost	\$373,972	\$14.19	\$399,823	\$15.27	\$	\$
Accrual Receipts from Milk	\$347,131	\$13.18	\$347,809	\$13.28	\$	\$
Net Milk Receipts	\$330,201	\$12.53	\$322,482	\$12.32	\$	\$

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, 2003

	Average Pe			
Item	31 Dairy Farm Renters	59 Dairy Farm Owners	Per (Cwt.
Purchased dairy grain & concentrate	\$4.30	\$3.93	\$	
Purchased dairy roughage	<u>0.97</u>	<u>0.16</u>		
Total Purchased Dairy Feed	\$5.27	\$4.09	\$	
Purchased grain & concentrate as % of milk receipts	33%	30%		%
Purchased feed & crop expense	\$5.74	\$4.85	\$	
Purchased feed & crop expense as % of milk receipts	44%	37%		%
Breeding	\$0.19	\$0.23	\$	
Veterinary & medicine	0.43	0.50		
Milk marketing	0.64	0.97		
Bedding	0.21	0.17		
Milking supplies	0.34	0.34		
Cattle lease	0.02	0.02		
Custom boarding	0.11	0.17		
bST expense	0.16	0.15		
Livestock professional fees	0.05	0.05		
Other livestock expense	0.14	0.23		

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, 2003

Item	Per Worker	Per Cow	Per Tillable Acre
27 Dairy Farm Renters:			
Farm capital	\$ 165,682	\$ 4,349	\$ 2,961
Machinery & equipment	36,538	959	653
Ratios			
Asset turnover	Operating expense	Interest expense	Depreciation expense
0.83	0.81	0.02	0.06
59 Dairy Farm Owners:			
Farm capital	\$ 257,284	\$ 8,174	\$ 2,796
Machinery & equipment	52,205	1,659	567
Ratios			
Asset turnover	Operating expense	Interest expense	Depreciation expense
0.44	0.81	0.03	0.08
My Farm:			
Farm capital	\$	\$	\$
Machinery & equipment			
Ratios			
Asset turnover	Operating expense	Interest expense	Depreciation expense

LABOR FORCE ANALYSIS New York Dairy Farm Renters and Owners, 2003

	31 Dairy F	arm Renters	59 Dairy Fa	arm Owners	My	Farm
D.0% .	Tr. 4.1	Per	Tr. 4.1	Per	TF 4 1	Per
Efficiency	Total	Worker	Total	Worker	Total	Worker
Cows, average number	128	38	130	31		
Milk sold, pounds	2,634,628	784,115	2,618,524	634,025		
Tillable acres	188	56	380	92		
	31 Dairy F	arm Renters	59 Dairy Fa	arm Owners	My	Farm
Labor Costs	Total	Per Cow	Total	Per Cow	Total	Per Cow
Value of operator(s) labor*	\$ 44,220	\$ 345	\$ 41,807	\$ 322	\$	\$
Family unpaid*	8,190	64	8,729	67		
Hired	36,577	286	55,024	423		
Total Labor	\$ 88,987	\$ 695	\$ 105,560	\$ 812	\$	\$
Machinery Cost	\$ 56,005	\$ 438	\$ 76,794	\$ 591	\$	\$
Total Labor & Machinery	\$ 144,992	\$ 1,133	\$ 182,354	\$ 1,403	\$	\$
Hired labor expense per hired						
worker equivalent	\$ 26,601		\$ 24,776		\$	
Hired labor expense as % of						
milk sales	10.5%		15.8%)
*\$2,200 per month					<u> </u>	

^{*\$2,200} 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 15 New York Dairy Farm Renters, 2002 & 2003

	Aver	age	My Farm			
Selected Factors	2002	2003	2002	2003	Goal	
Size of Business						
Average number of cows	95	93				
Average number of heifers	69	70				
Milk sold, lbs.	1,989,723	1,935,116				
Worker equivalent	2.54	2.62				
Total tillable acres	233	242				
Rates of Production						
Milk sold per cow, lbs.	20,944	20,838				
Hay DM per acre, tons	2.2	2.3				
Corn silage per acre, tons	10.4	9.6				
Labor Efficiency						
Cows per worker	37	35				
Milk sold per worker, lbs.	783,356	738,594				
Cost Control						
Grain & concentrate purchased						
as % of milk sales	30%	31%	%		%	
Dairy feed & crop expense						
per cwt. milk	\$5.01	\$5.22	\$	\$	\$	
Labor & machinery costs/cow	\$1,133	\$1,177	\$	\$	\$ \$	
Operating cost of producing						
cwt. milk	\$9.80	\$10.20	\$	\$	\$	
Capital Efficiency*						
Farm capital per cow	\$4,120	\$4,394	\$	\$	\$	
Machinery & equipment per cow	\$1,165	\$1,287	\$	\$	\$	
Asset turnover ratio	0.77	0.75				
<u>Profitability</u>						
Net farm income without appreciation	\$43,399	\$40,637	\$	\$	\$	
Net farm income with appreciation	\$42,595	\$52,704	\$	\$	\$	
Labor & management income	\$18,677	¢12 709	\$	\$	•	
per operator/manager Rate of return on equity	\$10,0//	\$13,798	Φ	Φ	\$	
capital with appreciation	0.6%	3.7%	%		%	
Rate of return on all capital	1.7%	3.7%	%	0/0	%	
with appreciation	1./70	3.170	70	70		
Financial Summary Farm net worth, end year	\$280,256	\$294,145	\$	\$	\$	
Debt to asset ratio	0.29	0.30	Ψ	Ψ	\$	
		\$1,365	•	•	•	
Farm debt per cow	\$1,190	\$1,303	\$	Φ	Φ	

^{*}Average for the year.

RECEIPTS AND EXPENSES PER COW AND PER HUNDREDWEIGHT Same 15 New York Dairy Farm Renters, 2002 & 2003

			2002		2	2003
Item		Per Cow	Per Cwt.		Per Cow	Per Cwt.
Average Number of Cows		95			93	
Cwt. of Milk Sold			19,897			19,351
ACCRUAL OPERATING RECEIPTS						
Milk	\$	2,645	\$ 12.63	\$	2,711	\$ 13.03
Dairy cattle	4	162	0.77	4	86	0.41
Dairy calves		54	0.26		49	0.23
Other livestock		5	0.02		0	0.00
Crops		21	0.10		69	0.33
Miscellaneous receipts		312	1.49		261	1.25
Total Receipts	\$	3,199	\$ 15.28	\$	3,176	\$ 15.25
ACCRUAL OPERATING EXPENSES						
Hired labor	\$	235	\$ 1.12	\$	221	\$ 1.06
Dairy grain & concentrate		792	3.78	•	851	4.09
Dairy roughage		93	0.44		95	0.45
Nondairy feed		0	0.00		1	0.01
Professional nutritional services		NA*	NA*		3	0.02
Machine hire/rent/lease		39	0.19		28	0.13
Mach. repair & vehicle exp.		162	0.77		167	0.80
Fuel, oil & grease		66	0.32		83	0.40
Replacement livestock		68	0.32		23	0.11
Breeding		50	0.24		45	0.22
Veterinary & medicine		62	0.29		70	0.34
Milk marketing		154	0.73		165	0.80
Bedding		26	0.12		32	0.15
Milking supplies		67	0.32		59	0.28
Cattle lease		1	0.00		0	0.00
Custom boarding		65	0.31		58	0.28
bST expense		33	0.16		35	0.17
Livestock professional fees		NA*	NA*		8	0.04
Other livestock expense		71	0.34		45	0.22
Fertilizer & lime		81	0.39		68	0.33
Seeds & plants		27	0.13		29	0.14
Spray/other crop expense		57	0.27		44	0.21
Crop professional fees		NA*	NA*		0	0.00
Land, building, fence repair		34	0.16		39	0.19
Taxes		24	0.11		29	0.14
Real estate rent/lease		159	0.76		170	0.81
Insurance		34	0.16		38	0.18
Utilities		91	0.43		108	0.52
Interest paid		54	0.26		52	0.25
Other professional fees		NA*	NA*		10	0.05
Miscellaneous		62	0.29		8	0.04
Total Operating Expenses	\$	2,606	\$ 12.44	\$	2,583	\$ 12.42
Expansion Livestock	Ψ	2,000	0.00	Ψ	4	0.02
Expansion Elvestock Extraordinary Expense		NA*	0.00 NA*		0	0.02
Machinery Depreciation		118	0.57		135	0.65
Real Estate Depreciation		18	0.08		16	0.08
Total Expenses	\$	2,742	\$ 13.09	\$	2,738	\$ 13.17
	\$ \$	2,742 457	\$ 13.09 \$ 2.19			
Net Farm Income Without Appreciation	Ф	43/	\$ 2.19	\$	438	\$ 2.08

^{*}NA = not available in 2002 data. Expense was included in other categories.

Condensed Summary and Selected Business Factors for Two Herd Size Groups

CONDENSED FARM BUSINESS SUMMARY FOR TWO RENTER GROUPS BY HERD SIZE 31 New York Dairy Farm Renters, 2003

		rm Renters with 0 Cows		n Renters with Cows
Item	Per Cow	Per Cwt.	Per Cow	Per Cwt.
ACCRUAL EXPENSES				
Hired labor	\$30	\$0.17	\$354	\$1.65
Dairy grain & concentrate	685	3.95	939	4.38
Dairy roughage	132	0.76	218	1.02
Nondairy feed	2	0.01	0	0.00
Professional nutritional services	0	0.00	1	0.01
Machine hire, rent & lease	31	0.18	66	0.31
Machine repairs & farm vehicle expense	146	0.84	127	0.59
Fuel, oil & grease	68	0.39	75	0.35
Replacement livestock	52	0.30	15	0.07
Breeding	27	0.15	44	0.20
Veterinary & medicine	50	0.29	99	0.46
Milk marketing	179	1.03	120	0.56
Bedding	25	0.15	49	0.23
Milking supplies	51	0.29	74	0.35
Cattle lease & rent	0	0.00	5	0.02
Custom boarding	0	0.00	29	0.14
bST expense	9	0.05	39	0.18
Livestock professional fees	16	0.09	10	0.05
Other livestock expense	58	0.34	20	0.09
Fertilizer & lime	36	0.21	51	0.24
Seeds & plants	14	0.08	34	0.16
Spray & other crop expense	21	0.12	17	0.08
Crop professional fees	0	0.00	1	0.01
Land, building & fence repair	30	0.17	33	0.15
Γaxes & rent	169	0.98	152	0.71
Utilities	96	0.55	84	0.39
Interest paid	84	0.48	53	0.25
Other professional fees	6	0.03	7	0.03
Misc. (including insurance)	51	0.30	52	0.24
Total Operating Expenses	\$2,069	\$11.94	\$2,770	\$12.91
Expansion livestock	197	1.13	79	0.37
Extraordinary expense	0	0.00	0	0.00
Machinery depreciation	129	0.74	126	0.59
Building depreciation	12	0.07	<u>91</u>	0.43
Total Accrual Expenses	\$2,407	\$13.88	\$3,066	\$14.30
ACCRUAL RECEIPTS				
Milk sales	\$2,295	\$13.25	\$2,823	\$13.16
Dairy cattle	287	1.66	230	1.07
Dairy calves	56	0.32	70	0.33
Other livestock	13	0.08	10	0.05
Crops	106	0.61	64	0.30
Miscellaneous receipts	263	1.52	<u> 187</u>	0.87
Total Accrual Receipts	\$3,020	\$17.44	\$3,384	\$15.78
PROFITABILITY ANALYSIS (Total)	•			
Net farm income (without appreciation)	\$3	31,886	\$60	6,655
Net farm income (with appreciation)		36,380	\$142	2,614
Labor & management income/operator		10,890		5,653
Rates of return on: Equity capital without ap		-9.1%		-1.2%
Equity capital with appre		-5.5%		11.6%
All capital without appre		-3.4%		0.4%
All capital with apprecia		-1.2%		8.6%

SELECTED BUSINESS FACTORS FOR TWO RENTER GROUPS BY HERD SIZE 31 New York Dairy Farm Renters, 2003

Total acres rented 222 312 Tillable acres rented 135 245 Hay crop acres 105 148 Corn silage acres 17 69 Hay crop acres 17 69 Hay crop acres 17 69 Hay crop nosn DM'acre 2.6 2.2 Corn silage, tons/acre 15.8 12.4 Forage DM per cow, tons 7.0 4.0 Forage DM per cow, tons 7.0 4.0 Fillable acres/cow 2.6 1.2 Fertilizer & lime expense/tillable acre \$14.05 \$43.34 Machinery cost/tillable acre \$170 \$372 Dairy Analysis	Item	16 Dairy Farm Renters with < 70 Cows	15 Dairy Farm Renters with > 70 Cows
Total acres rented 222 312 Tillable acres rented 135 245 Hay crop acres ²² 105 148 Corn silage acres ²² 17 69 Hay crop, tons DM/acre 2.6 2.2 Corn silage, tons/acre 15.8 12.4 Forage DM per cow, tons 7.0 4.0 Tillable acres/cow 2.6 1.2 Fertilizer & lime expense/tillable acre \$14.05 \$43.34 Machinery cost/tillable acre \$170 \$372 Dairy Analysis Number of cows \$2 209 Number of heifers 27 172 Wilk sold, pounds 900,950 4,483,884 Milk sold/cow, pounds 17,473 21,468 Operating cost of producing milk/ewt \$15.21 \$13.98 Price/ewt. milk sold \$13.25 \$13.16 Purchased dairy feed/cwt. milk \$4.72 \$5.39 Purchased dairy feed/cwt. milk \$4.72 \$5.39 Purchased deed crop expense/ewt. milk \$5.13 \$5.	Cronning Program Analysis		
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Debt payments as % of milk sales 15% 8%			
/ YHD/WHE WYWHIDD DO D			
Debt coverage ratio for 2003 1.45 1.00			

²²Average of all farms, not only those reporting data.

Regional 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 five figures in each column represent the average of each 20 percent or quintile of farms included in the regional summary.

FARM BUSINESS CHART FOR FARM MANAGEMENT COOPERATORS 31 New York Dairy Farm Renters, 2003

Size of Business			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)	
8.2	363	7,946,093	22,898	3.6	20	51	1,098,961	
2.4	76	1,580,756	21,290	2.9	17	37	733,354	
2.2	67	1,261,212	19,038	2.5	14	32	580,333	
1.8	55	893,549	16,953	2.1	11	29	502,402	
1.3	39	606,285	13,091	1.5	8	19	304,551	

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)
\$406	20%	\$195	\$912	\$593	\$3.86
591	27	337	1,089	754	4.55
788	31	458	1,256	1,039	5.11
931	35	544	1,423	1,149	5.96
1,184	41	681	1,808	1,520	7.24

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)
\$2,984	\$6.40	\$11.68	\$303,008	\$146,357	\$59,995
2,733	8.39	13.02	57,014	50,400	24,204
2,574	9.54	14.56	44,454	35,442	11,890
2,287	11.01	15.94	22,831	18,011	4,133
1,801	13.04	21.02	-24,259	-22,935	-34,805

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

Regional 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 31 New York Dairy Farm Renters, 2003

Liquidity (repayment)

Planned Debt Payments	Available for Debt Service	Cash Flow Coverage	Debt Payments as Percent	Debt Per
Per Cow	Per Cow	Ratio	of Milk Sales	Cow
(10)*	(16)	(10)	(10)	(7)
\$ 24	\$729	21.75	1%	\$185
120	579	2.33	5	894
309	344	1.33	12	1,795
509	178	1.00	18	2,334
683	-46	0.33	28	3,622

	Solvency	7	Profitability		
		Debt/Asset Ratio	Percent Rat	e of Return with	
Leverage	Percent	Current &	appreciation on:		
Ratio**	Equity	Intermediate	Equity	Investment***	
(7)	(7)	(7)	(4)	(4)	
-0.48	96%	0.03	84%	18%	
0.21	76	0.18	8	6	
0.90	44	0.41	1	2	
2.52	24	0.69	-19	-6	
7.89	1	0.86	-210	-46	

	Efficiency (Capital)		<u></u>
Asset	Machinery	Total Farm	Change in
Turnover	Investment	Assets	Net Worth
Ratio	Per Cow	Per Cow	With Appreciation
(14)	(14)	(14)	(8)
1.75	\$373	\$6,411	\$245,256
0.94	602	5,099	26,071
0.78	822	3,703	12,710
0.65	1,585	2,941	168
0.52	2,411	2,020	-71,476

^{*}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 <u>Achievable</u> but challenging.
- 4. Goals should be **Rewarding**.
- 5. You should designate a <u>Time</u> 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 F	Performance		
The Farm Business a weaknesses of your farm bu improvement.	and Financial Analysis Charts siness. Identify three major st	on pages 26 and 27 can be used trengths and three areas of your fa	o help identify strengths and arm 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.

bST Usage - An estimate of percentage of herd that was injected with bovine somatotropin during the year.

<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.

Cash Flow Coverage Ratio - (defined on page 15)

Cash Paid - (defined on page 4)

Cash Receipts - (defined on page 6)

Change in Accounts Payable - (defined on page 5)

<u>Change in Accounts Receivable</u> - (defined on page 6)

<u>Change in Inventory</u> - (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)

Current Portion - 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.

Debt to Asset Ratios - (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.

<u>**Labor Efficiency**</u> - Production capacity and output per worker.

Leverage Ratio - (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.
- Other Livestock Expenses 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.

<u>Purchased Inputs Cost of Producing Milk</u> - (defined on page 20)

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

<u>Replacement Livestock</u> - 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.

Total Costs of Producing Milk - (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)
2004-21	Dairy Farm Business Summary, New York Small Herd Farms, 80 Cows or Fewer, 2003	(\$16.00)	Knoblauch, W., Putnam, L., Kiraly, M. and J. Karszes
2004-20	New York Economic Handbook 2005	(\$7.00)	Extension Staff
2004-19	Dairy Farm Business Summary, Northern New York Region, 2003	(\$12.00)	Knoblauch, W., Putnam, L., Karszes, J., Murray, P., Vokey, F., Ames, M., VanLoo, W., Nobles, C. and A. Deming
2004-18	Dairy Farm Business Summary, Western and Central Plateau Region, 2003	(\$12.00)	Knoblauch, W., Putnam, L., Karszes, J., Allhusen, G., Grace, J., Petzen, J. and A. Dufresne
2004-17	Income Tax Management and Reporting For Small Businesses and Farms	(\$20.00)	Cuykendall, C. and G. Bouchard
2004-16	Dairy Farm Business Summary, Southeastern New York Region, 2003	(\$12.00)	Knoblauch, W., Putnam, L., Kiraly, M., Walsh, J., Hadcock S. and L. Hulle
2004-15	Dairy Farm Business Summary, Central Valleys Region, 2003	(\$12.00)	LaDue, D., Karszes, J., Balbian, D., Radick, C., Staehr, A., Maxwell, D. and L. Putnam
2004-14	Dairy Farm Business Summary, Intensive Grazing Farms, New York, 2003	(\$16.00)	Conneman, G., Grace, J., Karszes, J., Benson, A., Putnam, L., Staehr, E. and J. Degni
2004-13	A New Producer Milk Marketing Contract: Costs, Risks, Benefits, and Feasibility of a Cooperative Financing Model	(\$12.00)	Richards, S.
2004-12	Using Crop Insurance: Profiles of 13 Farmers Who Use Crop Insurance as a Risk Management Tool	(\$12.00)	Richards, S., Sheils, C., Jacobs, E., Ashton, J., McGonigal, J. and J. Forrett
2004-11	Dairy Farm Business Summary, Western and Central Plain Region, 2003	(\$12.00)	Knoblauch, W., Putnam, L., Karszes, J., Hanchar, J., Murphy J. and J. Barry

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