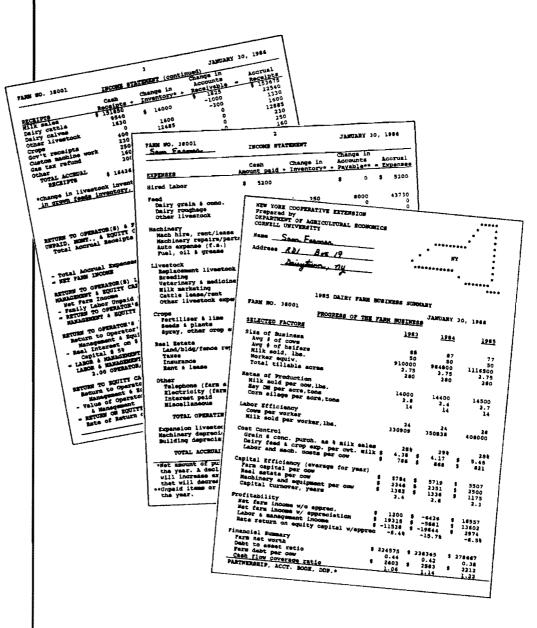
NORTHERN NEW YORK 1985



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1985 DAIRY FARM BUSINESS SUMMARY Northern New York*

Introduction

Dairy farmers throughout the State have been participating in New York Cooperative Extension's farm business summary and analysis program since the early 1950's. Each participating farmer receives a complete summary and analysis of his or her farm business in addition to this publication. The information in this report is compiled by averaging data submitted from the region described at the bottom of this page.

Program Objective

The primary objective of the dairy farm business summary, DFBS, is to help farmers improve their management skills through appropriate use of record data and application of modern farm business management decision-making techniques. In short, DFBS identifies the records farmers need and demonstrates how to use them in making business and financial management decisions.

Program Improvements

The 1985 DFBS report features improved accrual accounting procedures, a new measure of farm profitability, a more indepth balance sheet, an annual cash flow statement, and several major improvements in the business analysis format and the analysis measures used. These and other changes are identified in the body of this report.

The revised format provides one full page for the analysis of the farm cropping program and another for complete analysis of the dairy program. Corn and hay crop related expenses are evaluated separately for cooperating farmers. The cost of producing milk per cow and per hundredweight of milk sold has been compiled. An annual cash flow worksheet has been added to the farmer's individual report. The popular <u>Progress of The Farm Business</u> report has been moved to page one of the farmer's report and added to this publication.

Micro DFBS, which allows Cooperative Extension agents and specialists to calculate and print individual farm business reports in their offices, is now being used by more than 50 percent of our dairy farm management field staff. This innovative program provides faster processing of farm record data and increased use of DFBS in farm management programs.

^{*}This summary was prepared by William F. Lazarus and Linda D. Putnam, Department of Agricultural Economics, New York State College of Agriculture and Life Sciences, Cornell University, in cooperation with Cooperative Extension agents Pat Beyer, Russell Coombe, George Field, and William Gallamore. The Northern New York Region (with the number of farms included in parentheses) is comprised of Clinton (1), Essex (0), Franklin (11), Jefferson (16), Lewis (28), and St. Lawrence (12) Counties.

SUMMARY OF THE FARM BUSINESS

Business Characteristics

Finding the right management strategies is an important part of farming. Various combinations of farm resources, enterprises, business arrangements, and management techniques are used by the dairy farmers in this region. The following table shows important farm business characteristics and the number of farmers reporting these characteristics.

BUSINESS CHARACTERISTICS 68 Northern New York Dairy Farms, 1985

Type of Farm	Number	Type of Business	Number	
Dairy	65	Single proprietorship	55	
Part-time dairy	2	Partnership	12	
Dairy cash-crop	1	Corporation	1	
Part-time cash-crop dairy	7 0	Other	0	
Type of Ownership	Number	Type of Barn	Number	
Owner	67	Stanchion	42	
Renter	1	Freestal1	18	
		Other	8	
Milking System	Number	Business Record System	Number	
Bucket & carry	1	CAMIS	2	
Dumping station	14	Account Book	51	
Pipeline	35	Agrifax (mail-in only)	5	
Herringbone parlor	17	On-Farm Computer	3	
Other parlor	1	Other	7	
Dairy Records Service	Number		Number	
DHIC	48	Other	3	
O.S.	11	None	6	
Milk Diversion Program Participants Number: 6				

The averages used in this report were compiled using data from all the participating dairy farms in this region unless noted otherwise. There may be regular dairy farms, part-time farms, dairy cash-crop farms, farm renters, partnerships, and corporations included in the average. These specific classifications are used to separate farms in the State Business Summary.

A part-time farm has less than 12 months of labor from all operators.

 \underline{A} dairy cash-crop farm has income from crop sales that exceed 10 percent of milk sales.

A farm renter owns no farm real estate at the end of the year or owns no tillable land.

Milk Diversion Program Participants are the farmers that were in the 1984-85 federal milk diversion program. These farms have also been included in the regional summary averages.

Income Statement

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

CASH AND ACCRUAL FARM EXPENSES
68 Northern New York Dairy Farms, 1985

	Cash	Change in	Change in	Accrual
Expense Item	Paid +	Inventory	+ Accounts Payable	- Expenses
Hired Labor	\$ 10,039		\$ 8	\$ 10,047
Feed				
Dairy grain & conc.	31,884	\$-379	-159	31,346
Dairy roughage	1,116	0	15	1,131
Other livestock	1,151	326	12	1,489
Machinery	·			
Mach. hire, rent/lease	752		-22	730
Machinery repairs/parts	6,264	-163	37	6,138
Auto expense (f.s.)	549		0	549
Fuel, oil & grease	4,217	- 54	24	4,187
Livestock				
Replacement livestock	1,182		0	1,182
Breeding	2,032	-132	- 5	1,895
Vet & medicine	3,208	-13	-40	3,155
Milk marketing	9,166		0	9,166
Cattle lease/rent	70		0	70
Other livestock expense	5,312	-69	8	5,251
Crops				
Fertilizer & lime	5,624	- 34	-104	5,486
Seeds & plants	1,965	-47	0	1,918
Spray, other crop exp.	1,780	-7	-8	1,765
Real Estate				
Land/bldg./fence repair	1,695		35	1,730
Taxes	3,915		38	3,963
Insurance	2,601		17	2,618
Rent & lease	1,933		27	1,960
<u>Other</u>				
Telephone (f.s.)	657		0	657
Electricity (f.s.)	3,634		4	3,638
Interest paid	12,545		14	12,559
Miscellaneous	1,360	<u>-25</u>	27	1,362
Total Operating	\$114,651	\$-597	\$ -72	\$113,982
Expansion livestock	\$ 557		\$ O	\$ 557
Machinery depreciation				11,841
Building depreciation				5,234
TOTAL ACCDUAL PUBLICES				6101 614
TOTAL ACCRUAL EXPENSES				\$131,614

<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.

Accrual expenses are the costs of inputs actually used in this year's production. The value of feed and supplies used out of inventory are included as are the costs of inputs purchased but not paid for (net increases in accounts payable). Items paid for and not used (net additions to inventory) are excluded from accrual expenses as are payments made on inputs used in a prior year (net decreases in accounts payable).

Worksheets are provided to enable any dairy farmer to compute his or her accrual farm income and compare it with the averages on the opposite page.

CASH AND ACCRUAL FARM EXPENSES WORKSHEET

Expense Item	Cash Paid	+	Change in Inventory	+	Change in Accounts Payable	Accrual = Expenses
				'		
Hired Labor	\$		\$		\$	\$
Feed						
Dairy grain & conc.						
Dairy roughage Other livestock		_			-	
			· · · · · · · · · · · · · · · · · · ·		4,	
Machinery						
Mach. hire, rent/lease						
Machinery repairs/parts		_				
Auto expense (f.s.)		_				-
Fuel, oil & grease		_				
Livestock						
Replacement livestock						
Breeding						
Vet & medicine						
Milk marketing						
Cattle lease/rent		_				-
Other livestock expense						
<u>Crops</u> Fertilizer & lime						
Seeds & plants	*******					
Spray, other crop exp.	***************************************	_	***************************************		-	
Real Estate						
Land/bldg./fence repair Taxes			W			***
Insurance			***************************************			
Rent & lease						
Other	·	_				**************************************
Telephone (f.s.)						
					www.	
Electricity (f.s.) Interest paid					·	
Miscellaneous						
	<u></u>				^	^
Total Operating Expansion livestock	\$		\$		٩	٩
_			**************************************		***************************************	
Machinery depreciation	**************************************				40 - 1 · V	
Building depreciation						
TOTAL ACCRUAL EXPENSES	\$		\$		\$	\$

 $\underline{\text{Cash paid}}$ is the actual amount of money paid out during the year and does not necessarily represent the cost of goods and services actually used.

Accrual expenses are the costs of inputs actually used in this year's production. Purchased feed and supplies used out of inventory must be included. Beginning of year less end of year purchased feed and supply inventory equals the change in inventory to include in accrual expenses. Feed, supplies, and services used but not paid for must be included by adding the net increase in operating accounts payable. Increases in operating accounts payable are determined by subtracting the balance at the beginning of the year from the end of year balance.

CASH AND ACCRUAL FARM RECEIPTS
68 Northern New York Dairy Farms, 1985

Receipt Item	Cash Receipts	_+	Change in Inventory	+	Change in Accounts Receivable	+	Accrual Receipts
	· · · · · · · · · · · · · · · · · · ·		_				
Milk sales	\$134,527				\$-275		\$134,252
Dairy cattle	8,334		\$2,625		124		11,083
Dairy calves	1,688				0		1,688
Other livestock	230		166		85		481
Crops	687		2,166		0		2,853
Government receipts	1,519				- 54		1,465
Custom machine work	125				0		125
Gas tax refund	238				0		238
Other	1.633				<u>232</u>		1,865
Total Accrual Receipts	\$148,981		\$4,957		\$ 112		\$154,050

<u>Cash receipts</u> includes the gross value of milk checks received during the year plus all other payments received for the sale of farm products, services, and government programs.

Accrual receipts represent the value of all farm commodities produced and services actually provided by the farmer during the year. Increases in live-stock inventory caused by herd growth and/or quality, are included as accrual receipts. Decreases in inventory caused by herd reduction are deducted. Changes in inventories of crops grown are accounted for in accrual receipts. Changes in accounts receivable include the January milk check for this December's marketings compared with the previous January's check, and other delayed payments.

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	\$	\$	\$	\$
Total Accrual Receipts	\$	\$	\$	\$

To calculate the change in inventory to be included in the above worksheet, subtract the beginning of year values from the end of year values excluding appreciation. The changes in inventories caused by declining prices must be excluded from the calculation of accrual receipts. Changes in accounts receivable are also determined by subtracting beginning of year balances from end of year balances.

Profitability Analysis

Farm owners/operators contribute labor, management, and capital to their businesses and the best combination of these resources produces optimum profits. Farm profits 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 livestock, machinery, and real estate inventory values caused by changes in prices during the year. Appreciation is a major factor contributing to changes in farm net worth and must be included in the profitability analysis.

NET FARM INCOME
68 Northern New York Dairy Farms, 1985

Item	Average	My Farm
Total accrual receipts	\$154,050	\$
Appreciation: Livestock	-10,294	-
Machinery	3,032	
Real Estate	-669	
Total Including Appreciation	\$146,119	\$
Total accrual expenses	-131,614	•
Net Farm Income (with appreciation)	\$ 14,505	\$
Net Farm Income (without appreciation)	\$ 22,436	\$

Return to operator(s') labor, management, and equity capital measures the total business profits for the farm operators. It is calculated by deducting a charge for unpaid family labor from net farm income. Operator(s') labor is not included in unpaid family labor. Return to operator(s') labor, management, and equity capital has been compiled with and without appreciation. Appreciation is considered an important part of the return to ownership of farm assets.

RETURN TO OPERATOR(S') LABOR, MANAGEMENT, AND EQUITY 68 Northern New York Dairy Farms, 1985

	Ave	age	My Farm		
Item	With Apprec.	Without Apprec.	With Apprec.	Without Apprec.	
Net farm income	\$14,505	\$22,436	\$	\$	
Family labor unpaid @ \$550 per month	2,200	2,200		-	
Return to operator(s') labor, management, & equity	\$12,305	\$20,236	\$	\$	

Labor and management income is the share of net farm income without appreciation returned to the operator(s') labor and management. Appreciation is not included as part of the return to labor and management. Labor and management income is determined by deducting the cost of using equity capital at a real interest rate of five percent, from the return to operator(s') labor, management, and equity capital excluding appreciation. The interest charge reflects the long-term average rate of return that a farmer might expect to earn in comparable risk investments in a low inflation economy.

<u>Labor and management income per operator</u> measures the return to each operator's labor and management.

LABOR AND MANAGEMENT INCOME 68 Northern New York Dairy Farms, 1985

Item	Average	My Farm
Return to operator(s') labor, management, & equity without appreciation	\$20,236	\$
Real interest @ 5% on \$238,538 equity capital	-11,927	
Labor & Management Income to 1.33 Operators	\$ 8,309	\$
Labor & Management Income per Operator	\$ 6,232	\$

Return on equity capital measures the net return remaining for the farmer's equity or owned capital after a charge has been made for the owner-operator's labor and management. The earnings or amount of net farm income allocated to labor and management is the opportunity cost or value of operator(s') labor and management estimated by the cooperators. Return on equity capital is calculated with and without appreciation. The rate of return on equity capital is determined by dividing the amount returned by the end of year farm net worth or equity capital.

RETURN ON EQUITY CAPITAL 68 Northern New York Dairy Farms, 1985

Item	Average	My Farm
Return to operator(s') labor, management, & equity capital with appreciation	\$12,305	\$
Value of operator(s') labor & management	-21,344	
Return on equity capital with appreciation	\$-9,039	\$
Rate of return on equity capital with appreciation	-3.8%	
Return on equity capital without appreciation	\$-1,108	\$
Rate of return without appreciation	-0.5%	

Farm and Family Financial Status

Evaluating the financial status of the farm business and the farm family is an important part of business analysis. The first step is to recognize all the assets and liabilities that make up the balance sheet. The second step is to analyze your filled out balance sheet by evaluating changes made during the year.

1985 FARM BUSINESS & NONFARM BALANCE SHEET 68 Northern New York Dairy Farms, 1985

Parm Assets				Farm Liabilities		
Current Current Accounts payable operating debt operation operating debt operation operating debt operation operat	Farm Assets	Jan 1	Dec. 31		Jan. 1	Dec. 31
Accounts payable \$2,685 \$2,548 695			200. 04			
& savings \$ 2,280 \$ 2,451 Operating debt 548 695 Accounts rec. 11,223 11,124 Short-term 2,447 2,398 Feed & supplies 25,483 28,290 Total \$5,680 \$5,641 Intermediate \$48,856 \$51,929 owned \$ 64,172 \$ 60,248 \$48,856 \$51,929 owned \$ 64,172 \$ 60,248 <td< td=""><td></td><td></td><td></td><td></td><td></td><td>40 5/0</td></td<>						40 5/0
Accounts rec. 11,223 11,124	·					
Total	_					
Total \$38,986 \$41,865 Total \$5,680 \$5,641 Intermediate Intermediate S48,856 \$51,929 S48,856 S51,929 S51,929 S48,856 S48,856 S51,929 S48,856 S48,856 S51,929 S48,856 S48,856 S51,929 S48,856 S4		•		Short-term	2,447	2,398
Intermediate						
Dairy cows:		\$38,986	\$41,865		\$5,680	\$5,641
owned leased \$ 64,172 \$ 60,248 31 0 Heifers 26,552 22,819 Bulls/other lvstk. 960 1,114 Mach./eq. owned 78,973 79,366 Mach./eq. leased 158 329 Financial lease Coop stock & cert. 2,658 2,748 (cattle/mach.) 189 329 Total \$173,504 \$166,624 Total \$49,045 \$52,258 Long-Term Long-Term Long-Term Long-Term Long-Term Land/buildings: \$166,910 \$78,760 \$78,961 owned \$168,289 \$167,336 Financial lease (structures) 552 426 Total \$168,289 \$167,336 Financial lease (structures) \$79,312 \$79,387 Total Farm Assets \$380,779 \$375,826 Total Farm Liab. \$134,037 \$137,287 Farm Net Worth \$246,742 \$238,539 Nonfarm Liabilities & Net Worth \$262 \$358 & savings \$3,366 <				<u>Intermediate</u>		
Leased	Dairy cows:				\$48,856	\$51,929
Heifers 26,552 22,819 Bulls/other lvstk. 960 1,114 Mach./eq. owned 78,973 79,366 Mach./eq. leased 158 329 Total \$173,504 \$166,624 Total \$173,504 \$166,624 Long-Term Land/buildings: \$78,760 \$78,961 owned \$167,737 \$166,910 leased 552 Total \$168,289 \$167,336 Total Farm Assets \$380,779 \$375,826 Total Farm Assets \$380,779 \$375,826 Nonfarm Liab: \$134,037 \$137,287 FARM NET WORTH \$246,742 \$238,539 Nonfarm Liab: \$262 \$358 Nonfarm Liab: \$262 \$358 Nonfarm Liab: \$262 \$358 Nonfarm Liab: \$262 \$358 Nonfarm real estate 4,341 4,738 Auto (personal sh.) 1,891 1,710 Stocks & bonds 2,926 3,598 Household furn. 7,603 8,122 All other 1,320 1,749 TOTAL FARM & NON-	owned	\$ 64,172	\$ 60,248			
Bulls/other lvstk. 960 1,114 Mach./eq. owned 78,973 79,366 Mach./eq. leased 158 329 Financial lease Coop stock & cert. 2,658 2,748 (cattle/mach.) 189 329 Total \$173,504 \$166,624 Total \$49,045 \$52,258 Long-Term Land/buildings: \$78,760 \$78,961 \$167,737 \$166,910 leased 552 426 Total \$168,289 \$167,336 Financial lease (structures) 552 426 Total \$168,289 \$167,336 Financial lease (structures) 552 426 Total \$189,045 \$168,289 \$167,336 Financial lease (structures) 79,312 \$79,387 Total Farm Assets \$380,779 \$375,826 Total Farm Liab. \$134,037 \$137,287 FARM NET WORTH \$246,742 \$238,539 \$167,737 \$166,910 \$168,289 \$167,336 Financial lease (structures) 79,312 \$79,387 Total Farm Liab. \$134,037 \$137,287 FARM NET WORTH \$246,742 \$238,539 \$167,749 \$168,910 \$169,740 \$169,7	leased	31	0			
Mach./eq. owned Mach./eq. leased 78,973 79,366 Mach./eq. leased 158 329 Total Financial lease (cattle/mach.) 189 329 Total \$173,504 \$166,624 Total \$49,045 \$52,258 Long-Term Long-Term Long-Term Long-Term Land/buildings: \$166,910 \$168,289 \$167,336 Financial lease (structures) \$79,312 \$79,387 Total \$168,289 \$167,336 Financial lease (structures) \$79,312 \$79,387 Total Farm Assets \$380,779 \$375,826 Total Farm Liab. \$134,037 \$137,287 FARM NET WORTH \$246,742 \$238,539 Nonfarm Assets Jan. 1 Dec. 31 Nonfarm Liabilities & savings \$3,366 \$3,850 Nonfarm Liab. \$262 \$358 Cash value life ins. 2,649 2,512 FARM & NONFARM Jan. 1 Dec. 31 Nonfarm real estate 4,341 4,738 Total Assets \$404,875 \$402,105 Auto (personal sh.) 1,891 1,710 Total Liabilities 134,299 137,645 Stocks & bonds <t< td=""><td>Heifers</td><td>26,552</td><td>22,819</td><td></td><td></td><td></td></t<>	Heifers	26,552	22,819			
Mach./eq. leased 158 329 Financial lease 189 329 Total \$173,504 \$166,624 Total \$49,045 \$52,258 Long-Term Long-Term Long-Term Long-Term \$78,760 \$78,961 Land/buildings: \$167,737 \$166,910 \$168,289 \$167,336 Financial lease \$79,312 \$79,387 Total \$168,289 \$167,336 Financial lease \$79,312 \$79,387 Total Farm Assets \$380,779 \$375,826 Total Farm Liab. \$134,037 \$137,287 FARM NET WORTH \$246,742 \$238,539 Nonfarm Assets Jan. 1 Dec. 31 Nonfarm Liabilities Nonfarm Liab \$134,037 \$137,287 FARM NET WORTH \$246,742 \$238,539 Personal cash, chkg. Nonfarm Liab \$262 \$358 & savings \$3,366 \$3,850 NONFARM NET WORTH Cash value life ins. 2,649 2,512 FARM & NONFARM Jan. 1 Dec. 31 Nonfarm real estate	Bulls/other lvstk.	960	1,114			
Coop stock & cert. 2,658 2,748 (cattle/mach.) 189 329 Total \$173,504 \$166,624 Total \$49,045 \$52,258 Long-Term Long-Term Long-Term \$78,760 \$78,961 owned \$167,737 \$166,910 \$168,289 \$167,336 Financial lease \$79,312 \$79,387 Total \$168,289 \$167,336 Financial lease \$79,312 \$79,387 Total Farm Assets \$380,779 \$375,826 Total Farm Liab. \$134,037 \$137,287 FARM NET WORTH \$246,742 \$238,539 Nonfarm Assets Jan. 1 Dec. 31 Nonfarm Liabilities Nonfarm Liab \$262 \$358 & savings \$ 3,366 \$ 3,850 NonFarm Liab. \$262 \$358 Cash value life ins. 2,649 2,512 FARM & NONFARM Jan. 1 Dec. 31 Nonfarm real estate 4,341 4,738 Total Assets \$404,875 \$402,105 Auto (personal sh.) 1,891 1	Mach./eq. owned	78,973	79,366			
Total \$173,504 \$166,624 Total \$49,045 \$52,258 Long-Term Land/buildings: \$78,760 \$78,961 owned \$167,737 \$166,910 leased \$552 426 Total \$168,289 \$167,336 Financial lease (structures) \$79,312 \$79,387 Total Farm Assets \$380,779 \$375,826 Total Farm Liab. \$134,037 \$137,287 FARM NET WORTH \$246,742 \$238,539 Nonfarm Assets Jan. 1 Dec. 31 & Net Worth Jan. 1 Dec. 31 Personal cash, chkg. & Nonfarm Liab. \$262 \$358 Savings \$3,366 \$3,850 NONFARM NET WORTH \$240,4875 \$402,105 Auto (personal sh.) 1,891 1,710 Total Liabilities \$134,299 137,645 Stocks & bonds \$2,926 3,598 Household furn. 7,603 8,122 All other \$1,320 1,749 TOTAL FARM & NON-	Mach./eq. leased	158	329	Financial lease		
Long-Term	Coop stock & cert.	2,658	2,748	(cattle/mach.)		329
Land/buildings: owned \$167,737 \$166,910 leased 552 426 Total \$168,289 \$167,336 Financial lease (structures) 552 426 Total Farm Assets \$380,779 \$375,826 Total Farm Liab. \$134,037 \$137,287 FARM NET WORTH \$246,742 \$238,539 Nonfarm Liabilities	Total	\$173,504	\$166,624	Total	\$49,045	\$52,258
owned leased 1552 552 426 Total \$168,289 \$167,336 Financial lease (structures) 552 426 Total \$168,289 \$167,336 Financial lease (structures) \$552 426 Total \$79,312 \$79,387 Total Farm Liab. \$134,037 \$137,287 FARM NET WORTH \$246,742 \$238,539 Nonfarm Liabilities Nonfarm Liab. \$262 \$358 & savings \$3,366 \$3,850 NONFARM NET WORTH \$262 \$358 Cash value life ins. 2,649 2,512 FARM & NONFARM Jan. 1 Dec. 31 Nonfarm real estate 4,341 4,738 Total Assets \$404,875 \$402,105 Auto (personal sh.) 1,891 1,710 Total Liabilities 134,299 137,645 Stocks & bonds 2,926 3,598 Household furn. 7,603 8,122 All other 1,320 1,749 TOTAL FARM & NON-	Long-Term			Long-Term		
Total \$168,289 \$167,336 Financial lease (structures) 552 426 Total \$79,312 \$79,387 Total Farm Assets \$380,779 \$375,826 Total Farm Liab. \$134,037 \$137,287 FARM NET WORTH \$246,742 \$238,539	Land/buildings:			_	\$78,760	\$78,961
Total \$168,289 \$167,336 Financial lease (structures) 552 426 Total \$79,312 \$79,387 Total Farm Assets \$380,779 \$375,826 Total Farm Liab. \$134,037 \$137,287 FARM NET WORTH \$246,742 \$238,539 Nonfarm Liabilities		\$167,737	\$166,910		•	
Structures 1552 426 Total \$79,312 \$79,387 \$752 Total \$79,312 \$79,387 \$752 \$79,387 \$752 \$752 \$75387 \$752 \$75387 \$752 \$75387 \$752 \$75387 \$753	leased	552	426			
Total Farm Assets \$380,779 \$375,826 Total Farm Liab. \$134,037 \$137,287 FARM NET WORTH \$246,742 \$238,539 Nonfarm Assets Jan. 1 Dec. 31 & Net Worth Jan. 1 Dec. 31	Total	\$168,289	\$167,336	Financial lease		
Total Farm Assets \$380,779 \$375,826 Total Farm Liab. \$134,037 \$137,287 FARM NET WORTH \$246,742 \$238,539 Nonfarm Liabilities				(structures)	552	426
Total Farm Assets \$380,779 \$375,826 Total Farm Liab. \$134,037 \$137,287 FARM NET WORTH \$246,742 \$238,539 Nonfarm Liabilities				Total	\$79,312	\$79,387
Nonfarm Liabilities Nonfarm Assets Jan. 1 Dec. 31 & Net Worth Jan. 1 Dec. 31	Total Farm Assets	\$380,779	\$375,826	Total Farm Liab.		
Nonfarm Assets Jan. 1 Dec. 31 & Net Worth Jan. 1 Dec. 31 Personal cash, chkg. Nonfarm Liab. \$262 \$358 & savings \$3,366 \$3,850 NONFARM NET WORTH Jan. 1 Dec. 31 Cash value life ins. 2,649 2,512 FARM & NONFARM Jan. 1 Dec. 31 Nonfarm real estate 4,341 4,738 Total Assets \$404,875 \$402,105 Auto (personal sh.) 1,891 1,710 Total Liabilities 134,299 137,645 Stocks & bonds 2,926 3,598 Household furn. 7,603 8,122 All other 1,320 1,749 TOTAL FARM & NON-						
Nonfarm Assets Jan. 1 Dec. 31 & Net Worth Jan. 1 Dec. 31 Personal cash, chkg. Nonfarm Liab. \$262 \$358 & savings \$3,366 \$3,850 NONFARM NET WORTH Cash value life ins. 2,649 2,512 FARM & NONFARM Jan. 1 Dec. 31 Nonfarm real estate 4,341 4,738 Total Assets \$404,875 \$402,105 Auto (personal sh.) 1,891 1,710 Total Liabilities 134,299 137,645 Stocks & bonds 2,926 3,598 Household furn. 7,603 8,122 All other 1,320 1,749 TOTAL FARM & NON-				Nonfarm lichiliti	AC	
Personal cash, chkg. Nonfarm Liab. \$262 \$358 & savings \$ 3,366 \$ 3,850 NONFARM NET WORTH Cash value life ins. 2,649 2,512 FARM & NONFARM Jan. 1 Dec. 31 Nonfarm real estate 4,341 4,738 Total Assets \$404,875 \$402,105 Auto (personal sh.) 1,891 1,710 Total Liabilities 134,299 137,645 Stocks & bonds 2,926 3,598 Household furn. 7,603 8,122 All other 1,320 1,749 TOTAL FARM & NON-	Nonfarm Assets	Ian 1	Dec 31			Dec 31
& savings \$ 3,366 \$ 3,850 NONFARM NET WORTH Cash value life ins. 2,649 2,512 FARM & NONFARM Jan. 1 Dec. 31 Nonfarm real estate 4,341 4,738 Total Assets \$404,875 \$402,105 Auto (personal sh.) 1,891 1,710 Total Liabilities 134,299 137,645 Stocks & bonds 2,926 3,598 Household furn. 7,603 8,122 All other 1,320 1,749 TOTAL FARM & NON-	Notifically Assets	van, I	Dec. 31	& Net Worth	Jan, I	Dec. JI
Cash value life ins. 2,649 2,512 FARM & NONFARM Jan. 1 Dec. 31 Nonfarm real estate 4,341 4,738 Total Assets \$404,875 \$402,105 Auto (personal sh.) 1,891 1,710 Total Liabilities 134,299 137,645 Stocks & bonds 2,926 3,598 Household furn. 7,603 8,122 All other 1,320 1,749 TOTAL FARM & NON-				Nonfarm Liab.	\$262	\$358
Nonfarm real estate 4,341 4,738 Total Assets \$404,875 \$402,105 Auto (personal sh.) 1,891 1,710 Total Liabilities 134,299 137,645 Stocks & bonds 2,926 3,598 Household furn. 7,603 8,122 All other 1,320 1,749 TOTAL FARM & NON-	& savings	\$ 3,366	\$ 3,850	NONFARM NET WORTH		
Auto (personal sh.) 1,891 1,710 Total Liabilities 134,299 137,645 Stocks & bonds 2,926 3,598 Household furn. 7,603 8,122 All other 1,320 1,749 TOTAL FARM & NON-	Cash value life in	s. 2,649	2,512	FARM & NONFARM	<u>Jan. 1</u>	Dec. 31
Stocks & bonds 2,926 3,598 Household furn. 7,603 8,122 All other 1,320 1,749 TOTAL FARM & NON-	Nonfarm real estat	e 4,341	4,738	Total Assets	\$404,875	\$402,105
Household furn. 7,603 8,122 All other 1,320 1,749 TOTAL FARM & NON-	Auto (personal sh.) 1,891	1,710	Total Liabilities	134,299	137,645
All other <u>1.320</u> <u>1.749</u> TOTAL FARM & NON-	Stocks & bonds	2,926	3,598			
All other <u>1.320</u> <u>1.749</u> TOTAL FARM & NON-	Household furn.					
	All other			TOTAL FARM & NON-		
	Total Nonfarm	\$24,096		FARM NET WORTH	\$270,576	\$264,460

Financial lease obligations are included in the balance sheet. The present values of all future payments are listed as liabilities since the farmer (lessee) is committed to make the payments. The present values are also listed as assets, representing the future value the item has to the business.

1985 FARM BUSINESS & NONFARM BALANCE SHEET

			Farm Liabilities		
Farm Assets	Jan. l	Dec. 31	& Net Worth	Jan. 1	Dec. 31
<u>Current</u>			Current		
Farm cash, checking	;		Accounts payable		
& savings			Operating debt		
Accounts rec.			Short-term:		
Feed & supplies					
Total			Total	-	
<u>Intermediate</u>			Intermediate		
Dairy cows:					
owned					
leased					
Heifers					
Bulls/other lvstk.					
Mach./eq. owned		· · · · · · · · · · · · · · · · · · ·		4	
		100000000000000000000000000000000000000	Financial lease		
Mach./eq. leased					
Coop stock & cert.		***************************************	(cattle/mach.)		
Total			Total		
Long-Term			Long-Term		
Land/buildings:					
owned					
leased			No.		
reased					
Total			Financial lease	· · · · · · · · · · · · · · · · · · ·	
Total			(structures)		
			Total		
m-+-1 m 4					·
Total Farm Assets			Total Farm Liab.		
			FARM NET WORTH		
			Nonfarm Liabilitie	es	
Nonfarm Assets	Jan. 1	Dec. 31	& Net Worth	Jan. l	Dec. 31
			Nonfarm Liab.:		
Personal cash, chkg	•		Willalm Diab		
& savings	5.				f
Cash value					
life ins.					
Nonfarm real est.		****	m 1 - 27 6		
Auto (pers. share)			Total Nonfarm		
Stocks & bonds			Liabilities		
Household furn.					
All other			Nonfarm		
Total Nonfarm			Net Worth		***
TOTAL FARM & NONFAL	RM		Jan. 1	Dec	. 31
Total Farm & Nonfa	rm Assets				
Less Total Farm & 1		iabilities	***************************************		
Farm & Nonfarm Net					
					-

Balance sheet analysis continues by examining financial and debt ratios and factors measuring levels of debt. Percent equity is calculated by dividing net worth by assets. Equity increases as the value of assets increase more than liabilities. The debt to asset ratio is compiled by dividing liabilities by assets. Low debt to asset ratios reflect strength in solvency and the potential capacity to borrow. The debt analysis ratios show how well the debt is structured and managed. Debt levels per unit of production include some old standards that are still useful if used with measures of cash flow and repayment ability.

BALANCE SHEET ANALYSIS
68 Northern New York Dairy Farms, 1985

<u>Item</u>		Aver	age	My Farm	
Financial Ratios - Farm:					
Percent equity		+	63%	<u></u> %	
Debt/asset ratio: total	0.	37			
long-term	0.4	47			
intermediate	0.	28			
Financial Ratios - Farm & Nonfa	arm:				
Percent equity		66%			
Total debt/asset ratio	0.	0.34			
Farm Debt Analysis:					
Accounts payable as % of total	debt		2%		
Long-term liabilities as a % of	f total de	bt	58%		
Current & inter. liab. as % of			42%		
		Per Tillable		Per Tillable	
Farm Debt Levels:	Per Cow	Acre Owned	Per Cow	Acre Owned	
Total farm debt	\$1,934	\$742	\$	\$	
Long-term debt	1,118	429			
Intermediate & current debt	815	313			

Balance sheet analysis concludes with a summary of the inventory balancing procedure for farm real estate and machinery and equipment. It is important to account for the value of these assets 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.

FARM INVENTORY BALANCE 68 Northern New York Dairy Farms, 1985

Item		Avg. of Reg	iona	<u>l Farms</u>		My Farm_		
		R.E.	Mac	h./Eq.		<u>R.E.</u>		Mach./Eq.
Value beg. of year		\$167,737		\$78,973		\$		\$
Purchases	7,550*	9	,635		\$		_ \$	
Lost capital	1,150				-		-	
Sales	1,324		433		-		-	
Depreciation	5,234	11	.,841		-		-	
Net investment		-158		-2,639	,,,,,,,,,,,	=+		-+
Appreciation		-669		3,032		+		+
Value end of year		\$166,910		\$79,366		\$		\$

^{*} \$2,992 land and \$4,558 buildings and/or depreciable improvements.

Cash Flow Summary and Analysis

Completing an annual cash flow summary and analysis is important to determine how well the cash generated by the business, plus that brought in from outside, met the annual cash needs of the business and the farm family. 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> in the following table is structured to compare all the cash inflows with all the cash outflows for the year. Cash inflows include all the cash farm receipts, receipts from the sale of farm assets, additional funds borrowed, as well as the amount of cash available at the beginning of the year. Cash outflows include all the cash farm expenses, capital purchases, principal payments, money taken out of the business, and the cash balance left at year's end. When all the cash inflows and outflows are correct, the statement will balance. If the imbalance (error) amount is positive, recorded cash inflows exceed outflows by this amount. If it is negative, cash outflows are too high in relation to inflows.

ANNUAL CASH FLOW STATEMENT 68 Northern New York Dairy Farms, 1985

Item	Average	My Farm	
Cash Inflows			
Beginning farm cash, checking & savings	\$ 2,280	\$	
Cash farm receipts	148,981		
Sale of assets: Machinery	433		
Real estate	1,103		
Money borrowed (intermediate & long-term)	17,280		
Money borrowed (short-term)	974		
Increase in operating debt	147		
Nonfarm income	2,444		
Money borrowed - nonfarm	189		
Total	\$173,831	\$	
Cash Outflows			
Cash farm expenses	\$114,651	\$	
Capital purchases: Expansion livestock	557		
Machinery	9,635		
Real estate	7,550		
Principal payments (intermediate & long-term)	14,006		
Principal payments (short-term)	1,022		
Decrease in operating debt	0		
Nonfarm debt payments	115		
Personal withdrawals & family exp.	17,740		
Ending farm cash, checking & savings	2,451		
Total	\$167,727	\$	
Imbalance (error)	\$6,104	\$	

Repayment Analysis

The second step of cash flow planning is to compare and evaluate debt payments planned and made last year, and estimate the payments required in the current year. It is helpful to compare and evaluate by using debt payments per unit of production and receipt/debt payment ratios.

FARM DEBT PAYMENTS PLANNED
Same 54 Northern New York Dairy Farms, 1984 and 1985

		Average		P	ly Farm	
	1985 Par	yments	Planned	1985 Pay	ments	Planned
Debt Payments	Planned Planned	Made	1986	Planned Planned	Made	1986
Long-term	\$11,643	\$11,658	\$12,120	\$	\$	\$
Intermediate-term	16,123	16,703	18,061			
Short-term	2,294	1,512	1,064			
Operating (net						
reduction)	0	0	140			
Accounts payable						
(net reduction)	903	<u>743</u>	<u>665</u>			
Total	\$30,963	\$30,616	\$32,050	\$	\$	\$
Per cow	\$421	\$416		\$	\$	
Per cwt. 1985 milk	\$2.73	\$2.70		\$	\$	-
Percent of total		•		<u> </u>		_
1985 receipts	19%	19%		*		*
Percent of 1985						_
milk receipts	22%	21%		8		*

The <u>Cash Flow Coverage Ratio</u> measures the ability of the farm business to meet its planned debt payment schedule. The ratio shows the percentage of planned payments that could have been made with last year's available cash flow. Farmers that did not participate in DFBS last year will find in their report a cash flow coverage ratio based on this year's planned debt payments.

CASH FLOW COVERAGE RATIO
Same 54 Northern New York Dairy Farms, 1984 and 1985

Item	Average	My Farm
Cash farm receipts	\$159,230	\$
- Cash farm expenses	121,820	
+ Interest paid	13,385	
- Net personal withdrawals from farm*	18,017	
(A) - Amount Available for Debt Service	\$ 32,778	\$
(B) - Debt Payments Planned for 1985	\$ 30,962	\$
(A + B) - Cash Flow Coverage Ratio for 1985	1.06	

^{*}Personal withdrawals and family expenditures less nonfarm income. If family withdrawals are excluded the cash flow coverage ratio will be incorrect.

ANALYSIS OF THE FARM BUSINESS

The farm business has been divided into three parts to allow a more indepth analysis of the cropping program, the dairy program, and the factors affecting capital and labor efficiency.

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 68 Northern New York Dairy Farms, 1985

Item	Average			My Farm				
Land	<u>Own</u>	ed Re	nted	Tota	al	<u>Owned</u>	Rented	<u>Total</u>
Tillable	18	5	38	224	4			
Nontillable	6	1	8	69	9			
Other nontillable	9	4	2	96	5			
Total	34	0	48	389	€			
	Average	of Farm	s Repo	rtin	g			
Crop Yields	<u>Farms</u>	Acres	Prod/	Acre		Acre	es Proc	l/Acre
Hay crop	68	138	3.6	6 tn	DM			_ tn DM
Corn silage	57	55		5 tn				_ tn
			4.8	9 tn	DM			_ tn DM
Other forage	9	12	1.9	1 tn	DM			_ tn DM
Total forage	68	185	3.9	5 tn	DM			_ tn DM
Corn grain	13	52	101.7	7 bu				bu
Oats	17	17	83.5	3 bu				bu
Wheat	4	22	33.7	3 bu				bu
Other crops	10	40						
Tillable pasture	25	27						
Idle	15	34						
Total Tillable Acres								

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 measure how efficiently the land resource is being used and how well total forage requirements are being met.

CROP MANAGEMENT FACTORS
68 Northern New York Dairy Farms, 1985

Item	Average	My Farm
Total tillable acres per cow	3.24	
Total forage acres per cow	2.68	
Harvested forage dry matter, tons per cow	10.59	

Cropping Program Analysis (continued)

A substantial number of cooperators have allocated accrual crop expenses to hay crop, corn, and other crop production. This additional data has been compiled to show the traditional crop expenses per acre and per production unit for these crops. Corn grain production has been converted to corn silage equivalent using 5.88 bushels of dry shell equivalent to equal one ton of corn silage as fed.

CROP RELATED ACCRUAL EXPENSES
68 Northern New York Dairy Farms, 1985

	Total Per	Hay	Crop	Corn	Per Ton Corn	Other
Expense	Till. Acre	Per Acre	Per Ton DM	Per Acre	Silage Equiv,	Crops <u>Per Acre</u>
Fertilizer & lime Seeds & plants Spray & other crop	\$24.53 8.57	\$10.14 2.77	\$2.77 0.76	\$34.20 13.80	\$2.34 0.94	\$16.88 9.27
expense Total	7.89 \$40.99	$\frac{1.17}{$14.08}$	0.32 \$3.85	15,60 \$63.60	1.07 \$4.35	3,59 \$29.74
My Farm:						
Fertilizer & lime Seeds & plants Spray & other crop	\$	\$	\$	\$	\$	\$
expense Total	\$	\$	\$	\$	\$	\$

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 per total tillable acre.

ACCRUAL MACHINERY EXPENSES
68 Northern New York Dairy Farms, 1985

	Aver	age	My Farm_		
Machinery	Total	Per Til.	Total	Per Til	
Expense Item	Expenses	Acre	Expenses_	Acre	
Fuel, oil & grease	\$ 4,187	\$ 18.72	\$	\$	
Machinery repairs & parts	6,138	27.45			
Machine hire, rent & lease	730	3.26			
Auto expense (farm share)	549	2.45			
Interest (5%)	3,958	17.70			
Depreciation	11,841	52,95		***************************************	
Total	\$27,403	\$122.54	\$	\$	

Dairy Program Analysis

Analysis of the dairy enterprise can tell a great deal about the strengths and weaknesses of the dairy farm business. 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 real increase in inventory has been included as an accrual farm receipt on page 5.

DAIRY HERD INVENTORY 68 Northern New York Dairy Farms, 1985

	Dair	y Cows	He	ifers
Item	Number	Value	Number	Value
Beginning of year (owned)	68	\$64,172	58	\$26,552
+ Change without appreciation		3,125		-500
+ Appreciation		-7.049		-3,233
End of year (owned)	71	\$60,248	58	\$22,819
End including leased	71			
Average number	69		58	
My Farm:				
Beginning of year (owned)		\$		\$
+ Change without appreciation				
+ Appreciation				
End of year (owned)				
End including leased			American and production in the programmer of the production of the second	
Average number		\$		\$

Total milk sold and milk production 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
68 Northern New York Dairy Farms, 1985

Item	Average	My Farm
Total milk sold, lbs.	1,063,255	
Milk sold per cow, lbs.	15,409	
Average milk plant test, percent butterfat	3.71%	

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 can be compared with the accrual costs of producing milk per cow and per hundredweight of milk. Using the whole farm method, operating costs of producing milk are estimated by deducting nonmilk accrual receipts from total accrual operating expenses. Total costs of producing milk include the operating costs plus expansion livestock purchased, depreciation on machinery and buildings, the value of operator(s') labor and management, and the interest charge for using equity capital. Note that the cost of labor, management, and equity capital has been excluded in the intermediate compilation.

ACCRUAL RECEIPTS FROM DAIRY AND COST OF PRODUCING MILK 68 Northern New York Dairy Farms, 1985

		Average			My Farm	
Item	Total	Per Cow	Per Cwt.	Total	Per Cow	Per Cwt
Accrual Receipt	S					
Milk	\$134,252	\$1,946	\$12.63	\$	\$	\$
Dairy cattle	11,083	161	1.04	,	•	
Dairy calves	1,688	24	0.16			
Total	\$147,023	\$2,131	\$13.83	\$	\$	\$
Accrual Costs o Producing Milk	<u>f</u>					
Operating costs	\$ 94,138	\$1,364	\$ 8.85	\$	\$	\$
Total costs wit out op(s') lab						
mgmt. & capita	1 114,016	1,652	10.72			
Total Costs	147,287	2,135	13.85	\$	\$	\$

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.

DAIRY RELATED ACCRUAL EXPENSES 68 Northern New York Dairy Farms, 1985

	Average				My Farm		
Item	Per Cow		Per	Cwt,	Per_Cow	Per Cwt	
Purchased dairy grain							
& concentrates	\$454		\$2.	95	\$	\$	
Purchased dairy roughage	16		0.	10		•	
Total Purchased					VIII 2000		
Dairy Feed	\$470		\$3.	.05	\$	\$	
Purchased grain & conc.						•	
as % of milk receipts		23%				8	
Purchased feed & crop exp.	\$603		\$3.	. 91	\$	\$	
Purchased feed & crop exp.							
as % of milk receipts		31%				*	
Breeding	\$ 27		\$0.	. 18	\$	\$	
Veterinary & medicine	46		0.	. 30			
Milk marketing	133		0.	. 86			
Cattle lease	1		0.	. 01			
Other livestock expense	76		0.	.49			

Capital and Labor Efficiency Analysis

Total Labor & Mach.

Capital efficiency factors measure how intensively the capital is being used in the farm business. Measures of labor efficiency are key indicators of management's success.

CAPITAL EFFICIENCY
68 Northern New York Dairy Farms, 1985

_	Pe		Per	Per Ti		Per Tillable	
Item	Wor	ker	Cow	Ac:	re	Acre Owned	
Farm capital	\$146,	440	\$5,483	\$1	,692	\$2,045	
Real estate			2,432			907	
Machinery & equipment	30,	740	1,151		355		
Capital turnover, years		2	.46				
My Farm:							
Farm capital	\$		\$	\$		\$	
Real estate	-						
Machinery & equipment							
Capital turnover, years						-	
			NTORY AND A				
			· · · · · · · · · · · · · · · · · · ·	Years		Value of	
Labor Force	<u> </u>	nths_	Age	of Ed	uc.	Labor & Mgmt	
Operator number 1	12		44	13		\$16,832	
Operator number 2		4	37	13		\$3,963	
Family paid		3		•		4-,	
Family unpaid		4					
Hired		8					
Total	3		+ 12 - 2.5	8 Worke	r Equiva	lent	
						ger Equiv.	
My Farm: Total			+ 12	Wor	ker Equi	valent	
Operator's			+ 12 -	Ope	rator/Ma	mager Equiv.	
Labor		Αν	erage	***		My Farm	
<u>Efficiency</u>	Tot	tal	Per Work	cer	Total	Per Worke	
Cows, average number		69	27				
Milk sold, pounds	1,063,2		411,583			***************************************	
Tillable acres		224	411,383		<u> </u>		
Work units		735	284				
work direct		 	204	+			
		Avera				Farm	
Labor Costs	Total	Per Cow	Per <u>Til. Acr</u> e	<u>Tota</u>	Per 1 Cow		
Value of operator(s)							
	\$12,800	\$186	\$57.24	\$	\$	\$	
Family unpd. (\$550/mo.)	2,200	32	9.84	Ψ	Y	Υ	
Hired	10,047	146	44.93				
Total Labor	\$25,047	\$363	\$112.00	\$	_ s	Ś	
Machinery Cost	\$27,403	\$397	\$122.54	\$	×	<u>`</u>	
	YE1, TUU	4001	4144.34	Ψ	Ÿ	Ÿ	

\$52,450 \$760 \$234.54

ANNUAL CASH FLOW WORKSHEEET

1	Regional	<u>N</u>	ly Farm	Expected		
	Average	Total	Per C	ow Change	Projection	
	(per cow)					
Average number of cows	69					
Accrual Oper, Receipts						
Milk	\$1946	\$	\$		\$	
Dairy cattle	161					
Dairy calves	24					
Other livestock	7					
Crops	41					
Misc. receipts	54					
Total	\$2,233	\$	\$	***************************************	\$	
Accrual Oper, Expenses						
Hired labor	\$ 146	\$	\$		\$	
Dairy grain & conc.	454					
Dairy roughage	16					
Other lvstk, feed	22					
Mach. hire/rent/lease	11					
Mach. rpr./parts & auto	97					
Fuel, oil & grease	61					
Replacement lvstk.	17					
Breeding	27					
Vet & medicine	46					
Milk marketing	133					
Cattle lease	1					
Other lvstk. exp.	76					
Fertilizer & lime	79					
Seeds & plants	28			· · · · · · · · · · · · · · · · · · ·		
Spray/other crop exp.	26					
Land, bldg.,fence repair	25					
Taxes	57					
Insurance	38					
Real est. rent/lease	28					
Utilities	62					
Miscellaneous	20					
Total Less Int. Paid	\$1,470				. \$	
Net Accrual Operating Income	(total)		(total)			
(without interest paid)		2,626	\$		\$	
- Change in lvstk./crop inv.	L	4,957				
- Change in accts. rec.		112				
+ Change in feed/supply inv.		- 597				
+ Change in accts, payable		<u>-72</u>				
NET CASH FLOW	\$46	5,842	\$		\$	
- Personal withdrawals &						
family expenditures		7,740				
Available for Debt Payments,						
Investments & Savings	-	9,102	\$		\$	
- Farm Debt Payments	76	5,115				
Available for Investment						
& Savings		7,013	\$		\$	
- Capital Purchases: cattle,						
	17	7,742				
machinery & improvements Additional Capital Needed	т.	, , 42	-			

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 54 Northern New York Dairy Farms, 1984 and 1985

	Ave	rage	My Farm			
Selected Factors	1984		1984	1985	Goal	
Cina of Business						
Size of Business	71	7/				
Average number of cows	71	74				
Average number of heifers		63				
	1,091,620					
•	2.63					
Total tillable acres	232	237				
Rates of Production						
Milk sold per cow, lbs.	15,343	15,409				
Hay DM per acre, tons	2.3					
Corn silage per acre, tons		14				
Labor Efficiency						
Cows per worker	27	26				
Milk sold per worker, lbs.		399,818				
mirk sold per worker, ibs.	414,000	377,010				
Cost Control						
Grain & conc. purchased						
as % of milk sales	26%	: 23%		<u> </u>		
Dairy feed & crop exp.						
per cwt. milk	\$4.61	•	\$	\$ \$	\$	
Labor & mach. costs/cow	\$773	\$776	\$	\$	\$	
Capital Efficiency*						
Farm capital per cow	\$5,707	\$5,546	\$	\$	\$	
Real estate per cow	\$2,451		\$	Ś	· s	
Mach. & equip. per cow	\$1,221		Ś	\$ \$ \$	Ś	
Capital turnover, years	2.5	2.5				
Profitability						
Net farm inc. w/o apprec.	\$18,954	\$24,232	¢	¢	è	
Net farm inc. w/apprec.	\$19,393		ž	· · · ·	٠ ٢	
Labor & mgmt. income	\$3,656		<u>ع</u>	. ર્	·	
	33,036	30,31/	٩	۹	· P	
Rate of return on eq.	3 24		_	_		
capital w/apprec.	-1.38	-2.9%		*	t	
Financial Summary						
Farm net worth	\$264,284	\$262,292	\$	\$	\$	
Debt to asset ratio	0.35	0.35	\$	\$	\$	
Farm debt per cow	\$1,969	\$1,879	<u> </u>	<u> </u>	<u> </u>	

^{*}Average for the year.

Farm Business Chart

The Farm Business Chart is a tool which can be used in analyzing a business by drawing a line through the figure in each column which represents the current level of management performance. The figure at the top of each column is the average of the top 10 percent of the 458 farms for that factor. The other figures in each column are the average for the second 10 percent, third 10 percent, etc. Each column of the chart is independent of the others. The farms which are in the top 10 percent for one factor would not necessarily be the same farms which make up the top 10 percent for any other factor.

FARM BUSINESS CHART FOR FARM MANAGEMENT COOPERATORS 458 New York Dairy Farms, 1984

Siz	Size of Business Ra		Rates	of Produ	ction	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
6.8	255	4,211,900	18,800	4.7	20	45	697,300
4.3	138	2,118,100	17,300	3.7	18	36	560,900
3.6	100	1,551,500	16,500	3.3	16	33	503,900
3.1	83	1,287,200	15,900	2.9	15	30	456,100
2.8	72	1,090,400	15,300	2.7	14	28	423,300
2.5	63	950,300	14,800	2.5	13	26	392,200
2.2	56	818,600	14,200	2.3	12	25	361,400
2.0	49	691,500	13,400	2.0	12	23	328,000
1.7	43	577,800	12,200	1.7	10	20	275,500
1.4	33	395,200	10,000	1.3	8	16	191,300

Feed Bought	% Feed is of Milk	Machinery Costs	Labor & Machinery	Feed & Crop Expenses Per
Per Cow	Receipts	Per Cow	Costs Per Cow	Cwt, Milk
\$214	11%	\$205	\$ 511	\$2.75
306	16	286	610	3.47
369	19	337	662	3.87
432	22	379	713	4.21
474	25	408	771	4.45
523	27	445	818	4.68
574	28	481	873	4.97
624	31	519	928	5.31
685	33	580	1,004	5.72
809	40	765	1,201	6.73

The cost control factors are ranked from low to high, but the <u>lowest</u> cost is not necessarily the most profitable. In some cases, the "best" management position is somewhere near the middle or average. Many things affect the level of costs, and must be taken into account when analyzing the factors.

Financial Analysis Chart

The farm financial analysis chart is designed just like the $\underline{\text{Farm}}$ $\underline{\text{Business Chart}}$ and may be used to measure the financial health of the farm business. Most of the financial measures used in the chart are presented on pages 7, 10, 12, and 17 of this publication.

FINANCIAL ANALYSIS CHART 458 New York Dairy Farms, 1984

	<u>Liquidi</u>	ty (Repayment)		
Debt Payments Per Cow	Available for Debt Service Per Cow	Cash Flow Coverage Ratio	Debt Payments as Percent of Milk Sales	Debt Per Cow
\$ 36	\$909	7.67	2	\$ 104
176	640	2.16	9	638
277	537	1.41	14	1,142
362	469	1.10	19	1,625
438	411	.91	22	1,930
500	357	. 75	26	2,377
571	279	. 58	30	2,688
656	216	.46	35	3,161
752	126	.28	40	3,770
971	-95	-,56	52	5,072

	Sol ⁻	vency		Effic:	iency & Prof	itability
		Debt	t/Asset Ratio	Capital	Rate o	f Return on
Leverage	Percent	Long	Intermediate	Turnover		
Ratio ¹	Equity	Term	& Current	(years)	Equity	Investment ²
.02	99	.00	.00	1.60	18%	13%
.12	90	.02	. 04	1.90	8	9
. 24	81	.14	.11	2.06	5	7
.37	73	. 30	.16	2.20	3	6
.51	67	.41	. 23	2.34	1	4
. 70	60	.51	. 29	2.51	-1	3
.94	53	.62	.37	2.66	- 3	1
1.22	46	. 73	. 45	2.95	-6	0
1.72	38	.85	.55	3.25	-11	-3
5.04	20	1.27	.80	4.54	-37	-8

¹Dollars of debt per dollar of equity, computed by dividing total liabilities by total equity.

²Return on all farm capital (no deduction for interest paid) divided by total farm assets.

FARM BUSINESS SUMMARY BY HERD SIZE 458 New York Dairy Farms, 1984

	Less than	40 to	55 to	70 to
Item Farms with:	40 Cows	54 Cows	69 Cows	84 Cows
Capital Investment (end of year)				
Livestock	\$ 39,803	\$ 58,991	\$ 81,180	\$100,136
Feed & supplies	11,239	17,653	26,056	34,432
Machinery & equipment	40,402	53,984	76,669	97,951
Land & buildings	120,967	142,160	<u>193,710</u>	225,287
TOTAL INVESTMENT	\$212,411	\$272,788	\$377,615	\$457,806
Receipts				
Milk sales	\$ 58,562	\$ 89,405	\$123,086	\$155,027
Dairy cattle sold	4,531	5,287	8,630	10,295
Other livestock sales	1,004	1,626	2,110	1,890
Crop sales	425 3,791	738 3,991	1,411	2,271
Miscellaneous receipts	\$ 68,313	\$101,047	5,448 \$140,685	5,640 \$175,123
Total Cash Receipts Increase in livestock	-589	687	\$140,685 889	\$175,123 3,018
Increase in feed & supplies	501	10	2,085	435
Appreciation	1,609	3.371	6,243	5,188
TOTAL FARM RECEIPTS	¢ 60 93/	¢105 115	61/0 000	6102 764
TOTAL FARM REC. EXCL. APPREC.	\$ 69,834 \$ 68,225	\$105,115 \$101,744	\$149,902 \$143,659	\$183,764 \$178,576
<u>Expenses</u>				
Hired labor	\$ 2,503	\$ 5,326	\$ 8,539	\$ 13,584
Dairy grain & concentrate	16,993	23,274	30,095	36,692
Other feed	1,632	1,422	2,227	1,486
Machine hire	764	949	1,494	1,501
Machinery repair	3,072	4,013	5,929	7,527
Auto expense (farm share)	446	415	502	485
Gas & oil	2,072	3,157	4,494	6,131
Replacement animals	549	766	1,692	1,116
Breeding fees	875	1,238	2,062	2,548
Veterinary & medicine Milk marketing	1,072	1,617	2,641	3,098
Cattle lease	4,893 0	7,345 55	9,676 87	12,223 125
Other livestock expense	2,362	3,650	5,511	6,278
Fertilizer & lime	2,355	3,446	6,291	8,000
Seeds & plants	697	1,081	1,933	2,602
Spray & other crop expense	693	813	1,438	1,988
Land, bldg., fence repair	936	1,190	1,971	2,339
Taxes & insurance	3,292	4,120	5,922	7,203
Elec. & phone (farm share)	2,018	2,879	3,875	4,700
Interest paid	5,789	9,300	12,660	14,845
Misc. expenses (incl. rent)	1.441	3,088	$\frac{4,125}{}$	5,609
Total Cash Expenses	\$ 54,454	\$ 79,144	\$113,164	\$140,080
Expansion livestock	60	238	702	1,062
Machinery depreciation	6,475	7,623	11,531	15,287
Building depreciation	2,001	3,166	5,605	5,742
Unpaid family labor	1,844	1,750	1,821	1,805
Interest on equity @ 5%	<u>7,433</u>	9,162	<u>12,678</u>	<u>15,771</u>
TOTAL FARM EXPENSES	\$ 72,267	\$101,083	\$145,501	\$179,747
Financial Summary	444			
NET CASH FARM INCOME	\$13,859	\$21,903	\$27,521	\$35,043
Labor & Management Income	\$-4,042	\$661	\$-1,842	\$-1,171
Number of Operators	1.07	1.18	1.32	1.34
LABOR & MGT. INCOME/OPER.	\$-3,778	\$560	\$-1,395	\$-874
LABOR, MGT. & OWNSHP. INC./OPER.	\$4,673	\$11,181	\$12,939	\$14,767

FARM BUSINESS SUMMARY BY HERD SIZE 458 New York Dairy Farms, 1984

	85 to	100 to	150 to	200 to	250 or
Item Farms with:	99 Cows	149 Cows	199 Cows	249 Cows	More Cows
Capital Investment (end of ye	ear)				
Livestock	\$124,747	\$166,776			
Feed & supplies	41,199	60,934	81,393	113,736	189,321
Machinery & equipment	111,838			190,946	
Land & buildings	<u>242,050</u>	<u>348,070</u>	415,970	581,058	<u>879,980</u>
MODAL THEIR COMPANY	Ac10 02/	6710 100	4000 011	61 000 700	A1 700 EE1
TOTAL INVESTMENT	\$519,834	\$/10,183	\$403,411	\$1,203,733	\$1,799,551
Receipts					
Milk sales	\$189 618	\$256,245	\$3//3 599	\$505,975	\$ 838,467
Dairy cattle sold	12,783			37,420	48,329
Other livestock sales	2,448		5,448	8,275	9,101
Crop sales	1,066		5,851	4,013	14,125
Miscellaneous receipts	4,509	9,564		19,824	11,764
Total Cash Receipts		\$288,752		\$575,507	
Increase in livestock	5,264		7,534	4,471	51,943
Increase in feed & supplies	281		6,856	4,218	14,687
Appreciation	2,746	10.566	11,658	<u>24,903</u>	12,861
TOTAL FARM RECEIPTS		\$309,311			\$1,001,277
TOTAL FARM REC. EXCL. APPR	.\$215,969	\$298,745	\$411,567	\$584,196	\$988,416
Evnongog					
<u>Expenses</u> Hired labor	\$ 16 688	\$ 27,852	\$ 46 503	\$ 77,411	\$117,236
Dairy grain & concentrate	49,523	61,297	78,388	115,416	201,481
Other feed	1,616	3,305	3,705	4,065	10,626
Machine hire	1,049	1,539	2,704	3,679	4,676
Machinery repair	10,347	14,395	20,231	27,963	38,467
Auto expense (farm share)	608	307	534	696	
Gas & oil	7,220	10,651	13,739	19,720	24,792
Replacement animals	1,045	1,673	4,834	1,189	1,354
Breeding fees	2,715	3,811	5,028	8,061	12,013
Veterinary & medicine	3,776	5,339	6,729	12,980	20,847
Milk marketing	15,285	19,404	26,629	39,971	52,277
Cattle lease	150	104	0	0	732
Other livestock expense	8,091	9,643	15,299	17,745	32,245
Fertilizer & lime	9,363	13,360	21,445	26,273	32,100
Seeds & plants	3,122	4,101	7,169	9,889	12,436
Spray & other crop expense	2,126	4,726	7,328	6,131	15,530
Land, bldg., fence repair Taxes & insurance	2,697 7,346	3,860	3,746 13,188	6,384	9,185
Elec. & phone (farm share)	7,340 5,464	10,300 6,851	8,877	16,264 11,927	18,689 15,604
Interest paid	19,120		39,003	50,300	87,833
Misc. expenses (incl. rent)	5,312	8,375	10,210		23,600
Total Cash Expenses		\$238,212	\$335.289	\$476,064	
Expansion livestock	1,040				20,888
Machinery depreciation	16,720		29,514		48,605
Building depreciation	7,497				31,860
Unpaid family labor	1,698				1,433
Interest on equity @ 5%	<u>16,884</u>	22,692	29,569	<u>38,653</u>	
TOTAL FARM EVERNORS	\$216 502	¢205 220	¢/.10 101	6577 400	6007 371
TOTAL FARM EXPENSES	9210,302	\$295,320	44TO, 101	\$577,482	\$894,371
Financial Summary					
NET CASH FARM INCOME	\$37,761				
Labor & Management Income	\$-533				
Number of Operators	1.37				
LABOR & MGT. INCOME/OPER.	\$-389				
LABOR, MGT. & OWNSHP. INC./OP	. \$13,939	\$26,016	\$28,035	\$48,799	\$92,466

SELECTED BUSINESS FACTORS BY HERD SIZE 458 New York Dairy Farms, 1984

	Less Than	40 to	55 to	70 to
Item Farms with:	40 Cows	54 Cows	69 Cows	84 Cows
Number of farms	45	100	94	64
Size of Business				
Number of cows	33	47	61	77
Number of heifers	27	38	52	67
Pounds of milk sold	443,000	664,700	919,900	1,159,400
Worker equivalent	1.75	2.08	2.50	2.92
Total work units	366	526	694	870
Total tillable acres	112	164	213	271
(Tillable acres rented)*	(26)	(50)	(71)	(80)
Rates of Production				
Milk sold per cow	13,424	14,143	15,080	15,057
Tons hay crop dry matter per acre		2.3	2.4	2.7
Tons corn silage per acre	12.9	13.0	12.8	12.9
Bushels of oats per acre	39.8	51.7	56.8	49.5
Labor Efficiency				
Cows per worker	19	23	24	26
Pounds milk sold per worker	253,143	319,567	367,960	397,055
Work units per worker	209	253	278	298
Feed Costs	•			
Feed purchased per cow	\$515	\$495	\$493	\$477
Crop expense per cow	\$113	\$114	\$158	\$164
Feed cost per cwt. milk	\$3.84	\$3.50	\$3.27	\$3.16
Feed & crop exp. per cwt. milk	\$5.05	\$4.52	\$4.56	\$4.38
<pre>% feed is of milk receipts</pre>	29%	26%	24%	
Tons forage dry matter per cow	7.6	7.7	7.8	8.0
Tillable acres per cow	3.4	3.5	3.5	3.5
Fertilizer & lime per crop acre	\$21	\$21	\$30	\$30
Machinery & Labor Costs				
Total machinery costs	\$14,820	\$18,829	\$27,749	\$35,813
Machinery cost per cow	\$449	\$401	\$455	\$465
Machinery cost per cwt. milk	\$3.35	\$2.83	\$3.02	\$3.09
Labor cost per cow	\$425	\$376	\$364	\$358
Labor cost per cwt. milk	\$3.17	\$2.66	\$2.42	\$2.38
Capital Efficiency				
Investment per worker	\$121,378	\$131,148	\$151,046	\$156,783
Investment per cow	\$6,247	\$5,683	\$6,190	\$5,795
Investment per cwt. milk	\$48	\$41	\$41	\$39
Land & buildings per cow	\$3,558	\$2,962	\$3,176	\$2,852
Machinery investment per cow Capital turnover	\$1,188 3.0	\$1,125 2.6	\$1,257 2.5	\$1,240 2.5
_				
<u>Other</u> Price per cwt. milk sold	\$13.22	\$13.45	\$13.38	\$13.37
Acres hay crops*	77	104	125	140
Acres corn silage*	17	28	41	53
J-				

^{*}Average of all farms.

SELECTED BUSINESS FACTORS BY HERD SIZE 458 New York Dairy Farms, 1984

	05 /	100	150		050
Item_ Farms with:	85 to 99 Cows	100 to 149 Cows	150 to 199 Cows	200 to 249 Cows	250 or More Cows
Number of farms	43	56	25	16	15
<u>Size of Business</u>					
Number of cows	91	124	170	229	359
Number of heifers	83	111	134	200	285
Pounds of milk sold	1,399,400				6,247,600
Worker equivalent	3.08	3.92	4.67	6.17	8.58
Total work units	1,030	1,398	•	2,541	3,801
Total tillable acres	290	383	549	622	790
(Tillable acres rented)*	(101)	(136)	(220)	(222)	(260)
Rates of Production					
Milk sold per cow	15,378	15,149	15,018	16,125	17,403
Tons hay crop dry matter,		2.9	3.0	3.3	4.0
Tons corn silage per acre		13.8	14.4	15.4	16.3
Bushels of oats per acre	53.0	45.8	50.1	57.1	80.0
Labor Efficiency					
Cows per worker	30	32	36	37	42
Pounds milk sold/worker	454,351	479,209	546,681	598,476	728,159
Work units per worker	334	357	408	412	443
Enal Contra					
Feed Costs	A = 1. 1.	64.04	64.61	650 4	AEC1
Feed purchased per cow	\$544 \$161	\$494 \$179	\$461 \$211	\$504	\$561
Crop expense per cow	\$3.54	-	•	\$185	\$167
Feed cost per cwt. milk Feed & crop exp./cwt. mil	-	\$3.26 \$4.62	\$3.07 \$4.62	\$3.13 \$4.38	\$3.22
% feed is of milk receipt		•	34.62 23%	34.36 23%	\$4.36 24%
Tons forage dry matter/co		8.0	8.7	8.5	8.0
Tillable acres per cow	3.2	3.1	3.2	2.7	2.2
Fertilizer & lime/crop ac		\$35	\$39	\$42	\$41
referrizer & fime/crop as	JIE 932	433	423	942	941
Machinery & Labor Costs					
Total machinery costs	\$41,499	\$54,991	\$75,651	\$94,090	\$129,309
Machinery cost per cow	\$456	\$443	\$445	\$411	\$360
Machinery cost per cwt.		\$2.93	\$2.96	\$2.55	\$2.07
Labor cost per cow	\$337	\$338	\$360	\$399	\$375
Labor cost per cwt. milk	\$2.19	\$2.23	\$2.39	\$2.47	\$2.15
Capital Efficiency					
Investment per worker	\$168,777	\$181,169	\$193,557	\$195,094	\$209,738
Investment per cow	\$5,590	\$5,636	\$5,165	\$5,144	\$4,699
Investment per cwt. milk	\$37	\$38	\$35	\$33	\$29
Land & buildings per cow	\$2,603	\$2,762	\$2,377	\$2,483	\$2,298
Machinery investment per	cow \$1,203	\$1,067	\$1,047	\$816	\$678
Capital turnover	2.4	2.3	2.1	2.0	1.8
<u>Other</u>					
Price per cwt. milk sold	\$13.55	\$13.64	\$13.46	\$13.70	\$13.42
Acres hay crops*	154	176	258	237	245
Acres corn silage*	71	102	144	235	326

^{*}Average of all farms.

FARM FAMILY FINANCIAL SITUATION BY HERD SIZE 458 New York Dairy Farms, January 1, 1985

The second solution	Less Than	40 to	55 to	70 to	85 to
Item Farms with:	40 Cows	54 Cows	69 Cows	84 Cows	99 Cows
Number of farms	45	100	94	64	43
<u>Assets</u>					
Livestock (includes	\$ 39,803	\$ 59,013	\$ 81,180	\$100,161	\$124,747
discounted lease payments)	(0)	(22)	(0)	(25)	(0)
Feed & supplies	11,239	17,653	26,056	34,432	41,199
Machinery & equip (includes	40,617	55,212	77,650	98,722	112,637
discounted lease payments)	(215)	(1,228)	(981)	(771)	(799)
Land & buildings (includes	121,757	144,453	194,790	227,936	246,366
discounted lease payments)	(608)	(2,293)	(1,080)	(2,649)	(4,316)
Co-op investment	950	2,842	3,971	4,747	7,902
Accounts receivable	5,903	8,170	11,281	14,229	17,314
Cash & checking accounts	1.084	1,664	2,028	3,492	2,463
Total Farm Assets	\$221,171	\$289,007	\$396,956	\$483,719	\$552,628
Savings accounts	2,892	3,025	2,751	4,773	3,694
Cash value life insurance	2,071	2,119	3,115	2,670	1,908
Stocks & bonds	990	2,082	2,195	3,755	2,155
Nonfarm real estate	3,853	2,905	8,897	5,656	3,616
Auto (personal share)	1,464	1,903	2,005	1,806	1,979
All other	<u>7.871</u>	9,212	6,298	6,887	5,231
Total Nonfarm Assets	\$ 19,141	\$ 21,246	\$ 25,261	\$ 25,547	\$ 18,583
TOTAL ASSETS	\$240,312	\$310,253	\$422,217	\$509,266	\$571,211
<u>Liabilities</u>					
Long-term	\$ 48,126	\$ 61,437	\$ 80,274	\$ 97,144	\$130,575
Intermediate	20,644	35,075	54,202	59,859	68,539
Financial lease	823	3,543	2,061	3,445	5,115
Short-term	500	2,191	2,547	2,059	5,511
Other farm accounts	2,414	3,526	4,311	5,789	5,209
Total Farm Liabilities	\$ 72,507	\$105,772	\$143,395	\$168,296	\$214,949
Total Nonfarm Liabilities	190	<u>830</u>	<u>856</u>	1,816	570
TOTAL LIABILITIES	\$ 72,697	\$106,602	\$144,251	\$170,112	\$215,519
Farm Net Worth (Eq. Cap.)	\$148,664	\$183,235	\$253,561	\$315,423	\$337,679
FAMILY NET WORTH	\$167,615	\$203,651	\$277,966	\$339,154	\$355,692
Financial Measures					
Percent equity	70%			679	-
Farm debt per cow	\$2,133	\$2,204	\$2,351	\$2,130	\$2,311
Available for debt service					
& living	\$22,264	\$33,907	\$43,287	\$50,678	\$57,557
Scheduled annual debt pymt.	\$13,695	\$21,704	\$29,930	\$35,772	\$45,664
Scheduled debt pymts./cow	\$398	\$447	\$486	\$450	\$487
Payment as % of milk check	23%				
Debt/Asset ratio - long-term	0.40	0.43	0.41	0.43	0.53
Debt/Asset ratio - intermedi					
& short-term	0.22	0.28	0.29	0.26	0.26
Cash flow coverage ratio	0.57	0.78	0.78	0.81	0.75

FARM FAMILY FINANCIAL SITUATION BY HERD SIZE 458 New York Dairy Farms, January 1, 1985

	100 to	150 to	200 to	250 or
Item Farms with:	149 Cows	199 Cows	249 Cows	More Cows
Number of farms	56	25	16	15
<u>Assets</u>				
Livestock (includes	\$166,776	\$ 223,343	\$ 317,993	\$ 470,722
discounted lease payments)	(0)	(0)	(0)	(0)
Feed & supplies	60,934	81,393	113,736	189,321
Machinery & equip (includes	135,106	184,455	196,961	260,222
discounted lease payments)	(703)	(1,250)	(6,015)	(694)
Land & buildings (includes	348,754	415,970	581,058	879,980
discounted lease payments)	(684)	(0)	(0)	(0)
Co-op investment	14,180	28,568	32,536	41,442
Accounts receivable	23,033	31,420	50,181	76,619
Cash & checking accounts	5,401	4,236	9,117	6,807
Total Farm Assets	\$754,184	\$ 969,385	\$1,301,582	\$1,925,113
Savings accounts	3,921	8,721	3,796	9,126
Cash value life insurance	3,560	6,789	3,796	9,126
Stocks & bonds	5,664	8,108	2,455	4,079
Nonfarm real estate	7,632	13,880	. 0	6,867
Auto (personal share)	1,817	3,173	1,063	667
All other	8.148	7,340	7,019	4,411
Total Nonfarm Assets	\$ 30,742	\$ 48,000	\$ 16,029	\$ 27,500
TOTAL ASSETS	\$784,926	•		\$1,9523,613
<u>Liabilities</u>				
Long-term	\$164,375	\$218,110	\$272,541	\$399,185
Intermediate	116,134	135,883	228,449	298,210
Financial lease	1,387	1,250	6,015	694
Short-term	7,550	10,275	5,801	13,752
Other farm accounts	10.893	12,494	15,708	22,605
Total Farm Liabilities	\$300,339	\$378,012	\$528,514	\$734,446
Total Nonfarm Liabilities	742	1,578	250	400
TOTAL LIABILITIES	\$301,081	\$379,590	\$528,764	\$734,846
Farm Net Worth (Eq. Cap.)	\$453,845	\$591,373	\$773,068	\$1,190,667
FAMILY NET WORTH	\$483,845	\$637,795		\$1,217,767
Financial Measures				
Percent equity	62%	63%	609	62%
Farm debt per cow	\$2,384	\$2,160	\$2,259	\$1,918
Available for debt service				
& living	\$79,761	\$103,180	\$150,134	\$277,674
Scheduled annual debt pymt.	\$67,136	\$92,504	\$118,968	
Scheduled debt pymts./cow	\$531	\$526	\$508	\$488
Payment as % of milk check	26%			·
Debt/Asset ratio - long-term	0.47	0.52	0.47	0.45
Debt/Asset ratio - intermediate				
& short-term	0.31	0.27	0.33	0.30
Cash flow coverage ratio	0.78	0.76	0.94	1.18

MEASURE YOUR PERFORMANCE

After you have entered your farm business data on the pages of this workbook, categorize your farm business performance into three groups. List the strong points, those which indicate average performance, and those areas which need improvement. Your business factors that exceed the regional average should be listed as strong points, factors that are close to the regional average should be identified as average, and factors that are below average should be listed under need improvement.

The Farm Business Chart on page 20 and the Financial Analysis Chart on page 21 can be used to identify strengths and weaknesses by comparing your business with a large number of New York dairy farms summarized for the previous year. It is recommended that you use more than one standard for comparison when analyzing the farm business.

STRONG POINTS:	AVERAGE:			
NEED IMPROVEMENT:				

After identifying opportunities for improvement, consider alternative ways of solving each problem. List each alternative and analyze the consequences in detail. Cooperative Extension conducts many schools, meetings, and provides many printed materials that should be of assistance. Local agribusinesses often provide helpful information and assistance. Seek out information related to the problem under consideration.

Another way to measure your management performance is to compare your current business factors with those from previous years. Page 19 is provided for this purpose. Answering the following questions may also help evaluate your farm business progress.

- 1. Do livestock number, labor force, and crop acres make up a well balanced unit of resources?
- 2. Have rates of production shown a steady increase?
- 3. When will milk output per worker reach 700,000 pounds?
- 4. Have some costs of production declined over the last two years?
- 5. Is net farm income improving fast enough to meet your needs?
- 6. Is growth in net worth keeping up with increased capital investment?
- 7. Have you reached the business goals set for 1985 and have you set new goals for 1986?