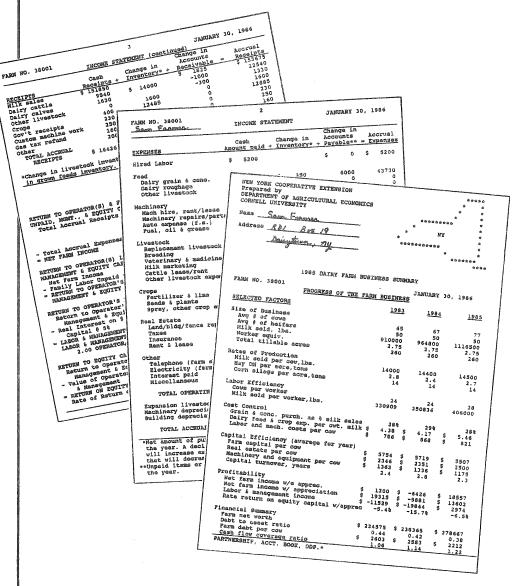
WESTERN PLATEAU REGION 1985



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1985 DAIRY FARM BUSINESS SUMMARY Western Plateau Region*

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 farmers who submitted the breakdown of expenses by crop. 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 Progress of The Farm Business 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 George L. Casler, Department of Agricultural Economics, New York State College of Agriculture and Life Sciences, Cornell University, in cooperation with Cooperative Extension Agents Lee Brumback, Andrew Dufresne, Davis Hill, and Joan Petzen. The Western Plateau Region is comprised of Allegany, Cattaraugus, Chautauqua, and Steuben 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
69 Western Plateau Region Dairy Farms, 1985

Type of Farm	Number	Type of Business	Number			
Dairy	63	Single proprietorship	56			
Part-time dairy	5	Partnership	13			
Dairy cash-crop	1	Corporation	0			
Part-time cash-crop dairy	0	Other	0			
Type of Ownership	<u>Number</u>	Type of Barn	Number			
Owner	63	Stanchion	45			
Renter	6	Freestall	24			
		Other	0			
Milking System	Number	Business Record System	Number			
Bucket & carry	3	CAMIS	5			
Dumping station	12	Account Book	32			
Pipeline	30	Agrifax (mail-in only)	21			
Herringbone parlor	21	On-Farm Computer	2			
Other parlor	3	Other	9			
Dairy Records Service	Number		Number			
DHIC	44	Other	5			
O.S.	11	None	9			
Milk Diversion Program Pa	Milk Diversion Program Participants Number: 11					
III III DIVOLUII LIVEIM LUEVALENII III III III III III III III III III						

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.

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.

<u>Milk Diversion Program Participants</u> 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
69 Western Plateau Region Dairy Farms, 1985

Expense Item	Cash Paid +	Change in	Change in Accounts Payable	Accrual = Expenses
Expense item		Inventory		
<u> Hired Labor</u>	\$ 15,101		\$ 12	\$ 15,113
<u>Feed</u>				05 001
Dairy grain & conc.	35,274	\$-207	264	35,331
Dairy roughage	1,274	0	13	1,287
Other livestock	631	-70	-4	557
<u>Machinery</u>				1 0/5
Mach. hire, rent/lease	1,275		-30	1,245
Machinery repairs/parts	8,516	4	87	8,607
Auto expense (f.s.)	718		14	732
Fuel, oil & grease	6,139	-43	-8	6,088
<u>Livestock</u>				
Replacement livestock	1,065		20	1,085
Breeding	1,895	51	53	1,999
Vet & medicine	3,120	-14	- 24	3,082
Milk marketing	7,863		0	7,863
Cattle lease/rent	28		0	28
Other livestock expense	5,899	-30	26	5,895
Crops				
Fertilizer & lime	6,823	-37	114	6,900
Seeds & plants	2,806	-29	16	2,793
Spray, other crop exp.	2,575	2	- 3	2,574
Real Estate				
Land/bldg./fence repair	1,756		66	1,822
Taxes	4,051		39	4,090
Insurance	2,661		-35	2,626
Rent & lease	3,530		10	3,540
Other				
Telephone (f.s.)	588		0	588
Electricity (f.s.)	3,800		2	3,802
Interest paid	12,554		68	12,622
Miscellaneous	2,292	<u>-6</u>	<u>-166</u>	2,120
Total Operating	\$132,234	\$-379	\$ 534	\$132,389
Expansion livestock	564		0	564
Machinery depreciation				14,212
Building depreciation				6,244
TOTAL ACCRUAL EXPENSES				\$153,409

^{*}An increase in inventory is a negative number in this column because it represents inputs that were purchased but not used during the year.

<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 previous page.

CASH AND ACCRUAL FARM EXPENSES WORKSHEET

	Cash		Change in		Change in	Accrual
Expense Item	Paid	+	Inventory	+	Accounts Payable	= Expenses
Hired Labor	\$		\$		\$	\$
<u>Feed</u>		a de casa de c			• •	,
Dairy grain & conc.						
Dairy roughage						***************************************
Other livestock						
Machinery						
Mach. hire, rent/lease						
Machinery repairs/parts						
Auto expense (f.s.)						
Fuel, oil & grease					4	
<u>Livestock</u>						
Replacement livestock						
Breeding	4				,	
Vet & medicine	***************************************					
Milk marketing						
Cattle lease/rent					4	
Other livestock expense						
Crops						
Fertilizer & lime						
Seeds & plants					***************************************	
Spray, other crop exp.			****			
<u>Real Estate</u>						
Land/bldg./fence repair						
Taxes					***************************************	
Insurance		-				
Rent & lease	***************************************		######################################			***
<u>Other</u>						
Telephone (f.s.)			***************************************			
Electricity (f.s.)	***************************************				March 1 to 1 t	***************************************
Interest paid			40.00		***************************************	
Miscellaneous					AND DESCRIPTION OF THE PARTY OF	
Total Operating	\$		\$		\$	\$
Expansion livestock	oca				40.004.004.040.004.00.000	***************************************
Machinery depreciation	******					
Building depreciation	er-workensonersenson-work	_				
TOTAL ACCRUAL EXPENSES	\$		\$		\$	\$

<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. 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. (An increase in inventory will be a negative number in the change in inventory column.) 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
69 Western Plateau Region Dairy Farms, 1985

Receipt Item	Cash Receipts	+	Change in	 Change in Accounts Receivable	+	Accrual Receipts
Receipt Item	Receipes	-1	Inventory	 RCCCIVADIC	'	11000100
Milk sales	\$145,477			\$ 408		\$145,885
Dairy cattle	8,625		\$2,924	253		11,802
Dairy calves	2,178			3		2,181
Other livestock	405		-104	29		330
Crops	1,007		-172	12		847
Government receipts	3,155			-905		2,250
Custom machine work	264			6		270
Gas tax refund	132			0		132
Other	4,455		-	342		4,797
Total Accrual Receipts	\$165,698		\$2,648	\$148		\$168,494

<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 livestock 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 increasing or 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 or 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 operators 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
69 Western Plateau Region Dairy Farms, 1985

Item	Average	My Farm
Total accrual receipts	\$168,494	\$
Appreciation: Livestock	-4,409	*****
Machinery	4,929	
Real Estate	2,327	
Total Including Appreciation	\$171,341	\$
Total accrual expenses	153,409	_
Net Farm Income (with appreciation)	\$17,932	\$
Net Farm Income (without appreciation)	\$15,085	\$

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 an important part of the return to ownership of farm assets and may be positive or negative.

RETURN TO OPERATOR'S LABOR, MANAGEMENT, AND EQUITY 69 Western Plateau Region Dairy Farms, 1985

Accompanies and accompanies and accompanies of the Contract and the Contra	Aver	age	My	Farm
<u>Item</u>	With Apprec.	Without Apprec.	With Apprec.	Without Apprec.
Net farm income	\$17,932	\$15,085	\$	\$
Family labor unpaid @ \$550 per month	1,650	1,650	•	
Return to operator's labor, management, & equity	\$16,282	\$13,435	\$	\$

Labor and management income is the share of net farm income 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 an economy with no inflation.

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

LABOR AND MANAGEMENT INCOME
69 Western Plateau Region Dairy Farms, 1985

Item	Average	My Farm
Return to operator's labor, management, & equity without appreciation	\$13,435	\$
Real interest @ 5% on \$276,586 equity capital	_13,829	-
Labor & Management Income	\$ -394	\$
Labor & Management Income per 1.25 Operator	\$ -315	\$

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
69 Western Plateau Region Dairy Farms, 1985

Average	My Farm
\$16,282	\$
19,653	
\$-3,371	\$
-1.2%	8
\$-6,218	\$
-2.2%	*
	\$16,282 <u>19,653</u> \$-3,371 -1.2% \$-6,218

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 69 Western Plateau Region Dairy Farms, 1985

Parm Assets					
Current Farm cash, checking	Form Aggota Inn 1	Dog 31	Farm Liabilities	Ian 1	Dec 31
Farm cash, checking & Accounts payable \$ 8,066 \$ 7,997 & savings \$ 2,313 \$ 2,386 Operating debt 824 926 Accounts rec. 12,857 12,674 Short-term 2,140 2,787 Feed & supplies 30,638 31,011 Total \$45,808 \$46,071 Total \$11,031 \$11,710 Intermediate Dairy cows:	raim Assets Jan. 1	Dec. JI	& Nec Wolch	Jan. I	Dec. 31
& savings \$ 2,313 \$ 2,386 Operating debt 824 926 Accounts rec. 12,857 12,674 Short-term 2,140 2,787 Feed & supplies 30,638 31,011 Total \$\$11,031 \$\$11,710 Intermediate Dairy cows: Owned \$ 60,866 \$ 61,637 \$58,410 \$57,993 leased 0 0 Height of the loss of the companies Financial lease Bulls/other lvstk. 1,225 1,222 Mach./eq. owned 79,951 79,279 Mach./eq. leased 1,507 1,213 Coop stock & cert. 5,901 6,233 Cop. Term Long-Term Land/buildings: Value of the companies \$ 74,951 \$71,099 owned \$201,346 \$199,497 leased 1,392 899 Total \$202,738 \$200,396 Financial lease (structures) 1,392 899 Total Farm Assets \$423,804 \$419,500 Total Farm Liab. \$147,291 \$142,914 <td>Current</td> <td></td> <td></td> <td></td> <td></td>	Current				
Accounts rec. 12,857 12,674				\$ 8,066	
Feed & supplies 30.638 31.011 Total \$45,808 \$46,071 Total \$11,031 \$11,710 Intermediate Dairy cows: owned \$60,866 \$61,637 \$58,410 \$57,993 leased 0 0 0 6.637 \$58,410 \$57,993 leased 0 0 0 0 6.637 \$58,410 \$57,993 leased 0	& savings \$ 2,313	\$ 2,386	Operating debt		
Total \$45,808 \$46,071 Total \$11,031 \$11,710	Accounts rec. 12,857	12,674	Short-term	-2.140	<u>2,787</u>
Intermediate	Feed & supplies <u>30,638</u>	<u>31,011</u>			
Dairy cows: owned \$ 60,866 \$ 61,637	Total \$45,808	\$46,071	Total	\$11,031	\$11,710
owned leased \$ 60,866 \$ 61,637 \$58,410 \$57,993 leased 0 <td><u>Intermediate</u></td> <td></td> <td><u>Intermediate</u></td> <td></td> <td></td>	<u>Intermediate</u>		<u>Intermediate</u>		
Leased	Dairy cows:				
Heifers 25,808 23,450 Bulls/other lvstk. 1,225 1,222 Mach./eq. owned 79,951 79,279 Mach./eq. leased 1,507 1,213 Financial lease Coop stock & cert. 5,901 6,233 (cattle/mach.) 1,507 1,213 Total \$175,258 \$173,034 Total \$59,917 \$59,206 Long-Term Land/buildings: \$74,951 \$71,099 owned \$201,346 \$199,497 leased 1,392 899 Total \$202,738 \$200,396 Financial lease (structures) 1,392 899 Total \$202,738 \$200,396 Financial lease (structures) 1,392 899 Total Farm Assets \$423,804 \$419,500 Total Farm Liab. \$147,291 \$142,914 FARM NET WORTH \$276,514 \$276,587 (Avg. for 54 Farms Reporting) Nonfarm Assets Jan. 1 Dec. 31 & Nonfarm Liabilities & savings \$8,576 \$8,521 Nonfarm Liab. \$1,175 \$1,392 & Savings \$8,576 \$8,521 Nonfarm Liab. \$1,175 \$1,392 Cash value life ins. 3,676 4,257 FARM & NONFARM Jan. 1 Dec. 31 Nonfarm real estate 9,711 9,997 Total Liabilities \$448,466 \$144,306	owned \$ 60,866	\$ 61,637		\$58,410	\$57,993
Bulls/other lvstk. 1,225 1,222 Mach./eq. owned 79,951 79,279 Mach./eq. leased 1,507 1,213 Financial lease Coop stock & cert. 5,901 6,233 (cattle/mach.) 1,507 \$1,213 Total \$175,258 \$173,034 Total \$59,917 \$59,206 Long-Term Land/buildings: \$74,951 \$71,099 owned \$201,346 \$199,497 leased 1,392 899 Total \$202,738 \$200,396 Financial lease (structures) 1,392 899 Total Farm Assets \$423,804 \$419,500 Total Farm Liab. \$147,291 \$142,914 FARM NET WORTH \$276,514 \$276,587 (Avg. for 54 Farms Reporting) Nonfarm Liabilities Nonfarm Assets Jan. 1 Dec. 31 & Net Worth Jan. 1 Dec. 31 Personal cash, chkg.	leased 0	0			
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Mach./eq. leased 1,507 1,213 Financial lease Coop stock & cert. 5,901 6,233 (cattle/mach.) 1,507 1,213 Total \$175,258 \$173,034 Total \$59,917 \$59,206 Long-Term Long-Term Long-Term \$74,951 \$71,099 Land/buildings: \$201,346 \$199,497 \$74,951 \$71,099 leased 1,392 899 Financial lease (structures) 1,392 899 Total \$202,738 \$200,396 Financial lease (structures) 1,392 899 Total \$76,343 \$71,997 Total Farm Assets \$423,804 \$419,500 Total Farm Liab. \$147,291 \$142,914 FARM NET WORTH \$276,514 \$276,587 (Avg. for 54 Farms Reporting) Nonfarm Liabilities Nonfarm Assets Jan. 1 Dec. 31 Nonfarm Liab. \$1,175 \$1,392 & savings \$ 8,576 \$ 8,521 NonFarm Net Worth 36,193 \$37,514 <	Bulls/other lvstk. 1,225	1,222			
Coop stock & cert. 5,901 6,233 (cattle/mach.) 1,507 1,213 Total \$175,258 \$173,034 Total \$59,917 \$59,206 Long-Term Long-Term Long-Term Long-Term \$74,951 \$71,099 Land/buildings: \$201,346 \$199,497 \$1,392 \$99 \$74,951 \$71,099 Long-Term \$202,738 \$200,396 Financial lease \$76,343 \$71,997 Total Farm Assets \$423,804 \$419,500 Total Farm Liab. \$147,291 \$142,914 FARM NET WORTH \$276,514 \$276,587 (Avg. for 54 Farms Reporting) Nonfarm Liabilities Nonfarm Liab. \$1,175 \$1,392 Nonfarm Assets Jan. 1 Dec. 31 Nonfarm Liab. \$1,175 \$1,392 & savings \$ 8,576 \$ 8,521 Nonfarm NET WORTH \$36,193 \$37,514 Cash value life ins. 3,676 4,257 FARM & NONFARM Jan. 1 Dec. 31 Nonfarm real estate 9,711 9,997 Total Assets \$46	Mach./eq. owned 79,951	79,279			
Total \$175,258 \$173,034 Total \$59,917 \$59,206 Long-Term Land/buildings: \$74,951 \$71,099 owned \$201,346 \$199,497 leased 1,392 899 Total \$202,738 \$200,396 Financial lease (structures) 1,392 899 Total Farm Assets \$423,804 \$419,500 Total Farm Liab. \$147,291 \$142,914 FARM NET WORTH \$276,514 \$276,587 (Avg. for 54 Farms Reporting) Nonfarm Liabilities Nonfarm Assets Jan. 1 Dec. 31 & Net Worth Jan. 1 Dec. 31 Personal cash, chkg. Nonfarm Liab. \$1,175 \$1,392 & savings \$8,576 \$8,521 NonFarm Liab. \$1,175 \$1,392 Cash value life ins. 3,676 4,257 FARM & NONFARM NET WORTH \$36,193 \$37,514 Cash value life ins. 3,676 4,257 FARM & NONFARM Jan. 1 Dec. 31 Nonfarm real estate 9,711 9,997 Total Assets \$461,172 \$458,406 Auto (personal sh.) 2,265 2,519 Total Liabilities \$148,466 \$144,306	Mach./eq. leased 1,507	1,213	Financial lease		
Total \$175,258 \$173,034 Total \$59,917 \$59,206 Long-Term Land/buildings: \$74,951 \$71,099 owned \$201,346 \$199,497 leased 1,392 899 Total \$202,738 \$200,396 Financial lease (structures) 1,392 899 Total Farm Assets \$423,804 \$419,500 Total Farm Liab. \$147,291 \$142,914 FARM NET WORTH \$276,514 \$276,587 (Avg. for 54 Farms Reporting) Nonfarm Liabilities Nonfarm Assets Jan. 1 Dec. 31 & Net Worth Jan. 1 Dec. 31 Personal cash, chkg. Nonfarm Liab. \$1,175 \$1,392 & savings \$8,576 \$8,521 Nonfarm Liab. \$1,175 \$1,392 Cash value life ins. 3,676 4,257 FARM & NONFARM NET WORTH \$36,193 \$37,514 Cash value life ins. 3,676 4,257 FARM & NONFARM Jan. 1 Dec. 31 Nonfarm real estate 9,711 9,997 Total Assets \$461,172 \$458,406 Auto (personal sh.) 2,265 2,519 Total Liabilities \$148,466 \$144,306		6,233	(cattle/mach.)	<u>1,507</u>	1,213
Land/buildings: \$74,951 \$71,099 owned \$201,346 \$199,497 \$899 \$1,392 \$899 Total \$202,738 \$200,396 Financial lease \$76,343 \$71,997 Total Farm Assets \$423,804 \$419,500 Total Farm Liab. \$147,291 \$142,914 FARM NET WORTH \$276,514 \$276,587 (Avg. for 54 Farms Reporting) Nonfarm Liabilities Nonfarm Assets Jan. 1 Dec. 31 & Net Worth Jan. 1 Dec. 31 Personal cash, chkg. Nonfarm Liab. \$1,175 \$1,392 & savings \$8,576 \$8,521 NonFarm NeT WORTH \$36,193 \$37,514 Cash value life ins. 3,676 4,257 FARM & NONFARM Jan. 1 Dec. 31 Nonfarm real estate 9,711 9,997 Total Assets \$461,172 \$458,406 Auto (personal sh.) 2,265 2,519 Total Liabilities \$148,466 \$144,306		\$173,034	Total	\$59,917	\$59,206
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Total \$202,738 \$200,396 Financial lease		\$199,497			
Cash value life ins. 3,676 Auto (personal sh.) 2,265 2,519 Total Liabilities Total Structures 1,392 899 Total Farm Liab \$76,343 \$71,997 Total Farm Liab. \$147,291 \$142,914 \$14	leased1,392	899			
Total Farm Assets \$423,804 \$419,500 Total Farm Liab. \$147,291 \$142,914 FARM NET WORTH \$276,514 \$276,587 (Avg. for 54 Farms Reporting) Nonfarm Liabilities Nonfarm Assets Jan. 1 Dec. 31 & Net Worth Jan. 1 Dec. 31 Personal cash, chkg. Nonfarm Liab. \$1,175 \$1,392 & savings \$8,576 \$8,521 Nonfarm Net Worth \$36,193 \$37,514 Cash value life ins. 3,676 4,257 FARM & NONFARM NET WORTH \$36,193 \$37,514 Nonfarm real estate 9,711 9,997 Total Assets \$461,172 \$458,406 Auto (personal sh.) 2,265 2,519 Total Liabilities \$148,466 \$144,306	Total \$202,738	\$200,396	Financial lease		
Total Farm Assets \$423,804 \$419,500 Total Farm Liab. \$147,291 \$142,914 FARM NET WORTH \$276,514 \$276,587 (Avg. for 54 Farms Reporting) Nonfarm Liabilities Nonfarm Assets Jan. 1 Dec. 31 & Net Worth Jan. 1 Dec. 31 Personal cash, chkg. Nonfarm Liab. \$1,175 \$1,392 \$37.514 Cash value life ins. 3,676 \$8,521 NONFARM NET WORTH \$36.193 \$37.514 Cash value life ins. 3,676 4,257 FARM & NONFARM Jan. 1 Dec. 31 Nonfarm real estate 9,711 9,997 Total Assets \$461,172 \$458,406 Auto (personal sh.) 2,265 2,519 Total Liabilities \$148,466 \$144,306	• •		(structures)	1,392	<u>899</u>
FARM NET WORTH \$276,514 \$276,587			Total	\$76,343	\$71,997
FARM NET WORTH \$276,514 \$276,587	Total Farm Assets \$423,804	\$419,500	Total Farm Liab.	\$147,291	\$142,914
Nonfarm Assets Jan. 1 Dec. 31 & Net Worth Jan. 1 Dec. 31 Personal cash, chkg. Nonfarm Liab. \$ 1,175 \$ 1,392 & savings \$ 8,576 \$ 8,521 NONFARM NET WORTH \$36.193 \$37.514 Cash value life ins. 3,676 4,257 FARM & NONFARM Jan. 1 Dec. 31 Nonfarm real estate 9,711 9,997 Total Assets \$461,172 \$458,406 Auto (personal sh.) 2,265 2,519 Total Liabilities \$148,466 \$144,306	•		FARM NET WORTH	\$276,514	\$276,587
Nonfarm Assets Jan. 1 Dec. 31 & Net Worth Jan. 1 Dec. 31 Personal cash, chkg. Nonfarm Liab. \$ 1,175 \$ 1,392 & savings \$ 8,576 \$ 8,521 NONFARM NET WORTH \$36.193 \$37.514 Cash value life ins. 3,676 4,257 FARM & NONFARM Jan. 1 Dec. 31 Nonfarm real estate 9,711 9,997 Total Assets \$461,172 \$458,406 Auto (personal sh.) 2,265 2,519 Total Liabilities \$148,466 \$144,306	(Assa for 5/ Forms Donorting)		Nonfarm Tiahiliti	₽ C	
Personal cash, chkg. Nonfarm Liab. \$ 1,175 \$ 1,392 & savings \$ 8,576 \$ 8,521 NONFARM NET WORTH \$36,193 \$37,514 Cash value life ins. 3,676 4,257 FARM & NONFARM Jan. 1 Dec. 31 Nonfarm real estate 9,711 9,997 Total Assets \$461,172 \$458,406 Auto (personal sh.) 2,265 2,519 Total Liabilities \$148,466 \$144,306					Dec 31
& savings \$ 8,576 \$ 8,521 NONFARM NET WORTH \$36.193 \$37.514 Cash value life ins. 3,676 4,257 FARM & NONFARM Jan. 1 Dec. 31 Nonfarm real estate 9,711 9,997 Total Assets \$461,172 \$458,406 Auto (personal sh.) 2,265 2,519 Total Liabilities \$148,466 \$144,306	NOTIFICATION ASSECTS OCHI. I	<u> </u>			
Cash value life ins. 3,676 4,257 FARM & NONFARM Jan. 1 Dec. 31 Nonfarm real estate 9,711 9,997 Total Assets \$461,172 \$458,406 Auto (personal sh.) 2,265 2,519 Total Liabilities \$148,466 \$144,306					
Nonfarm real estate 9,711 9,997 Total Assets \$461,172 \$458,406 Auto (personal sh.) 2,265 2,519 Total Liabilities \$148,466 \$144,306					
Auto (personal sh.) 2,265 2,519 Total Liabilities \$148,466 \$144,306					
	Nonfarm real estate 9,711	9,997	•		•
and	Auto (personal sh.) 2,265	•	Total Liabilities	\$148,466	\$144,306
Stocks & bonds 2,973 2,663	Stocks & bonds 2,973	2,663			
Household furn. 7,522 7,885	Household furn. 7,522	7,885			
All other 2.644 3.064 TOTAL FARM & NON-	All other <u>2.644</u>	3,064			
Total Nonfarm \$37,368 \$38,906 FARM NET WORTH* \$312,706 \$314,100	Total Nonfarm \$37,368	\$38,906	FARM NET WORTH*	\$312,706	\$314,100

^{*}Assumes that the average nonfarm assets and liabilities on the 14 farms that did not report these items were the same as on the farms that did report.

Financial lease obligations are included on the balance sheet. The present values of all future payments on financial lease obligations are listed as liabilities because the farmer (lessee) is committed to make the payments. The present values are also listed as assets.

1985 FARM BUSINESS & NONFARM BALANCE SHEET My Farm

_	- 4	n 01	Farm Liabilities	Ton 1	Dog 21
Farm Assets	Jan. 1	Dec. 31	& Net Worth	Jan. 1	Dec. 31
Character and the			Current		
Current			Current		
Farm cash, checking	1		Accounts payable	***	
& savings		***************************************	Operating debt		
Accounts rec.			Short-term:		
Feed & supplies					
Total			Total		
Intermediate			<u>Intermediate</u>		
Dairy cows:					
owned					
leased					
Heifers					
Bulls/other lvstk.					
Mach./eq. owned					
Mach./eq. leased			Financial lease		* *
Coop stock & cert.			(cattle/mach.)		
Total			Total		
Long-Term			Long-Term		
Land/buildings:			<u> </u>		
owned					
leased					
_ •			7 7 7		
Total			Financial lease		
			(structures)		
			Total		
Total Farm Assets			Total Farm Liab.		
			FARM NET WORTH		,
	Annual State of the State of th	,	Nonfarm Liabilitie	es	
Nonfarm Assets	<u>Jan. 1</u>	Dec. 31	& Net Worth	Jan. 1	Dec. 31
			Nonfarm Liab.:		
Personal cash, chkg	n				
-	5.				
& savings					·
Cash value					
life ins.					
Nonfarm real est.					
Auto (pers. share)			Total Nonfarm		
Stocks & bonds			Liabilities		
Household furn.					
All other			Nonfarm		
Total Nonfarm			Net Worth		
TOTAL FARM & NONFA	RM		Jan. 1	Dec	. 31
Total Farm & Nonfar	rm Assets				
Less Total Farm & N		ishilities			
		rantitues			
Farm & Nonfarm Net	worth				····
			3,44		

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 increases 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
69 Western Plateau Region Dairy Farms, 1985

<u>Item</u>		Aver	age	Му	Farm
Financial Ratios - Farm:					
Percent equity		6	6%		8
Debt/asset ratio: total	•	0.3	4		
long-term		0.3	6		
intermediate/	current	0.3	2		
Financial Ratios - Farm & Nonfa	<u>rm</u> :				
Percent equity		6		용	
Total debt/asset ratio	0.3				
Farm Debt Analysis:					
Accounts payable as % of total	debt			ક	
Long-term liabilities as a % of	total de	bt 5		ફ	
Current & inter. liab. as a % or	f total d	lebt 5	0%		ુ જ
		Per Tillable		Per Ti	llable
Farm Debt Levels:	Per Cow	Acre Owned	Per Cow	Acre	Owned
Total farm debt	\$1,856	\$812	\$	\$	
Long-term debt	935	409			
Intermediate & current debt	921	403			

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 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
69 Western Plateau Region Dairy Farms, 1985

Item	Avg. of	Avg. of Regional Farms			My Farm		
CONTRACTOR	<u>R.E.</u>		./Eq.	R.E.	Mach./Eq.		
Value beg. of year	\$201,346	5	\$79,951	\$	\$		
+ Purchases	7,014*	8,802		\$	\$		
- Lost capital	1,703						
- Sales	3,216	190		***************************************			
- Depreciation	6,244	14,212					
= Net investment	-4,176	5	-5,600				
+ Appreciation	2,327	7	4,929				
= Value end of year	r \$199,497	7	\$79,279	\$	\$		

^{* \$2,623} land and \$4,390 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 there is an imbalance or error, inflows, outflows or both have not been recorded accurately.

ANNUAL CASH FLOW STATEMENT
69 Western Plateau Region Dairy Farms, 1985

<u>Item</u>	Average	My Farm
Cash Inflows		
Beginning farm cash, checking & savings	\$ 2,313	\$
Cash farm receipts	165,698	
Sale of assets: Machinery	190	
Real estate	3,213	
Money borrowed (intermediate & long-term)	13,545	
Money borrowed (short-term)	2,360	
Increase in operating debt	101	
Nonfarm income	4,065	
Money borrowed - nonfarm	392	· · · · · · · · · · · · · · · · · · ·
Total	\$191,877	\$
Cash Outflows		
Cash farm expenses	\$132,234	\$
Capital purchases: Expansion livestock	564	<u> </u>
Machinery	8,802	
Real estate	7,014	A.
Principal payments (intermediate & long-term)	17,814	
Principal payments (short-term)	1,713	
Decrease in operating debt	0	***
Nonfarm debt payments	341	
Personal withdrawals & family exp.	16,859*	
Ending farm cash, checking & savings	2,386	
Total	\$187,723	\$
Imbalance (error)	\$4,154	\$

^{*}On many farms this item was estimated.

Repayment Analysis

The second step of cash flow planning is to compare and evaluate debt payments planned and made in 1985, 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
50 Western Plateau Region Dairy Farms, 1985 and 1986
(These 50 farms were also in the 1984 DFBS)

Mayor pure members have delike \$150.000 years and an experience of the content of purposes and an experience of the content of		Average		M·	y Farm	
	1985 Pa	yments	Planned	1985 Payı	nents	Planned
Debt Payments	Planned	Made	1986	<u>Planned</u>	Made	1986
Long-term	\$11,172	\$12,054	\$12,874	\$\$		\$
Intermediate-term	16,688	15,409	14,329			
Short-term	3,658	2,350	2,660			
Operating (net reduction)	0	0	120			
Accounts payable	0 = 1 =	1 707	1 (07			
(net reduction)	2,747	1,707	1,607			Name of the State
Total	\$34,265	\$31,520	\$31,590	\$\$		\$
Per cow	\$443	\$408		\$ \$		
Per cwt. 1985 milk	\$2.87	\$2.64		\$ \$		•
Percent of total						•
1985 receipts	19%	18%		aumonica maior (SSS) de mon Defende (Sand) Jumbildo		-
Percent of 1985						
milk receipts	22%	21%				-

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 1985's available cash flow. Farmers that did not participate in DFBS in 1985 will find in their report a cash flow coverage ratio based on planned debt payments for 1986.

CASH FLOW COVERAGE RATIO
50 Western Plateau Region Dairy Farms, 1985

Item	Average	My Farm
Cash farm receipts	\$173,031	\$
- Cash farm expenses	138,346	
+ Interest paid	12,967	
- Net personal withdrawals from farm*	13,120	
(A) = Amount Available for Debt Service	34,532	\$
(B) = Debt Payments Planned for 1985	34,265	\$
$(A \div B) = Cash Flow Coverage Ratio for 1985$	1.01	

^{*}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
69 Western Plateau Region Dairy Farms, 1985

		ACRES OF THE PROPERTY OF THE P	THE RESIDENCE OF THE PROPERTY					
Item				Average			My Farm	
Land		2	<u>Owned</u>	<u>Rented</u>	<u>Total</u>	<u>Owned</u>	<u>Rented</u>	<u>Total</u>
Tillable			176	96	273			
Nontillable			43	17	60			
Other nontilla	able		<u>139</u>	20	<u>158</u>			
Total			358	133	491			
	Farms F	Reporting	<u></u>	All Fa	rms			
Crop Yields	Farms	Acres	Acre	<u>s P</u>	rod/Acre	<u>Acre</u>	s Prod	/Acre
Hay crop	68	145	143		2.4 tn DM			tn DM
Corn silage	64	64	60	1	3.2 tn			tn
•					4.5 tn DM			tn DM
Other forage	11	23	4		1.7 tn DM			tn DM
Total forage	68	209	206	ı	3.0 tn DM			tn DM
Corn grain	41	37	22		86 bu			- bu
Oats	21	47	14	•	70 bu			- bu
Wheat	1	10	k	•	70 bu			- bu
Other crops	10	23	3	,				
Til. pasture	22	50	16	•				
Idle	25	31	11					
Total Tillah			273	}				

^{*}Less than one acre.

Average crop acres and yields compiled for the region are for all farms. The number of farms reporting each crop and the average acres on farms reporting each crop are also shown. 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
69 Western Plateau Region Dairy Farms, 1985

<u>Item</u>	Average	My Farm
Total tillable acres per cow	3.64	
Total forage acres per cow	2.75	
Harvested forage dry matter, tons per cow	8.23	

Cropping Program Analysis (continued)

A substantial number of cooperators allocated crop expenses to hay crop, corn, and other crop production. These additional data have been compiled to show the crop expenses per acre and per production unit for these crops. Corn production has been converted to corn silage equivalent using a conversion factor of 5.88 bushels of dry shelled corn per ton of corn silage as fed.

CROP RELATED ACCRUAL EXPENSES
69 Western Plateau Region Dairy Farms, 1985

topped whatehold as the concentration are controlled to depopy and as the adversariate and provided and provided to the concentration and provided to the controlled to the co	Total	77	C	C	Per Ton Corn	Other
	Per Till.	Per	Crop Per	Corn Per	Silage	Crops
Expense	<u>Acre</u>	Acre	Ton DM	Acre	<u>Equiv.</u>	Per Acre
Fertilizer & lime Seeds & plants Spray & other crop	\$26 10	\$11 4	\$4.71 1.58	\$30 12	\$2.19 0.90	\$27 14
expense Total	9 \$45	2 \$17	<u>0.93</u> \$7.22	<u>15</u> \$57	1.09 \$4.17	9 \$50
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
69 Western Plateau Region Dairy Farms, 1985

	Aver	age	My Farm		
Machinery	Total	Per Til.	Total	Per Til	
Expense Item	Expenses	Acre	Expenses	Acre	
Fuel, oil & grease	\$ 6,088	\$ 22	\$	\$	
Machinery repairs & parts	8,607	31			
Machine hire, rent & lease	1,245	5			
Auto expense (farm share)	732	3			
Interest (5%)	3,981	15			
Depreciation	14,212	52			
Total	\$34,865	\$128	\$	\$	

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 occurred 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 has been included as an accrual farm receipt on page 5.

DAIRY HERD INVENTORY
69 Western Plateau Region Dairy Farms, 1985

	Dair	y Cows	<u> Heifers</u>		
Item	Number	Value	Number	Value	
Beginning of year (owned)	73	\$60,866	63	\$25,808	
+ Change without appreciation		3,127		-203	
+ Appreciation		<u>-2,356</u>		-2,155	
End of year (owned)	77	\$61,637	63	\$23,450	
End including leased	77				
Average number	75		63		
My Farm:					
Beginning of year (owned)	<u> </u>	\$		\$	
+ Change without appreciation					
+ Appreciation			-		
End of year (owned)					
End including leased					
Average number	···	\$		\$	

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
69 Western Plateau Region Dairy Farms, 1985

<u>Item</u>	Average	My Farm
Total milk sold, lbs.	1,143,880	***************************************
Milk sold per cow, lbs.	15,275	
Average milk plant test, percent butterfat	3.68%	
Average price per cwt.	\$12.75	\$

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 69 Western Plateau Region Dairy Farms, 1985

		Average			My Farm			
Item	Total	Per Cow	Per Cwt.	Total	Per Cow	Per Cwt.		
Accrual Milk Receipts	\$145,885	\$1,948	\$12.75	\$	\$	\$		
Accrual Costs of Producing Milk	\$132,389			Ċ				
Operating costs - Receipts other than milk	22,609			φ				
Net Oper. Costs Total costs with- out oper's labor	\$109,780	\$1,463	\$ 9.60	\$	\$	\$		
mgmt. & capital Total Costs	132,389 \$165,871	1,765 \$2,212	11.57 \$14.50	\$	\$	\$		

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
69 Western Plateau Region Dairy Farms, 1985

	Average			1	My Farm		
<u>Item</u>	Per Cow		Per Cwt	. Per Cow	Per Cwt		
Purchased dairy grain							
& concentrates	\$472		\$3.09	\$	\$		
Purchased dairy roughage	<u>15</u>		0.10				
Total Purchased							
Dairy Feed	\$487		\$3.19	\$	\$		
Purchased grain & conc.							
as % of milk receipts		24%			8		
Purchased feed & crop exp.	\$651		\$4.26	\$	\$		
Purchased feed & crop exp.							
as % of milk receipts		33%		_	8		
Breeding	\$27		\$0.17	\$	\$		
Veterinary & medicine	41		0.27				
Milk marketing	105		0.69				
Other livestock expense	79		0.52				

Capital and Labor Efficiency Analysis

de erektetiken etakoa koloniakian **arakte**rand**a**rah kan koloniakian karaktetiken berektetik

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
69 Western Plateau Region Dairy Farms, 1985

Item	Per Worker	Per Cow	Per Tillable Acre	Per Tillable Acre Owned
Farm capital Real estate Machinery & equipment Capital turnover, years	\$148,818 28,579 2.	\$5,631 2,692 1,081	\$1,547 297	\$2,396 1,145
My Farm: Farm capital Real estate Machinery & equipment Capital turnover, years	\$	\$	\$	\$

	BOR FORCI					.985		
Labor Force	Мо	nths	Age		Years o		Value of Labor & Mg	
Operator number 1		12	45		13		\$16,043	
Operator number 2		2	39		14		13,061	
Operator number 3		1	24		14		13,333	
Family paid		4						
Family unpaid		3						
Hired		12						
Total	_	34	÷ 12 = 1			-	ent ger Equiv.	
My Farm: Total Operator's			÷ 12 = ; ÷ 12 = ;			-	valent nager Equiv	· .
Labor	**CM(COS)************************************	Ave	rage			Mv	7 Farm	
Efficiency	Tota		Per Wo:	rker	Ī	otal	Per Wor	ker
Cows, average number		75		26				
Milk sold, pounds	1,143,	880	403,	722			***	
Tillable acres		273	,	96				-
Work units		818	:	289				
CONTRACTOR		Avera	age			Му	Farm	
		Per	Per			Per	Per	
Labor Costs	Total	Cow	Til. A	cre	Total	Cow	Til. A	<u>cre</u>
Value of operator(s) labor (\$800/month)	\$12,000	\$160	\$44	\$		\$	\$	
Family unpd. (\$550/mo.)	1,650	22	6	Y		. Ч	Y	
Hired	15,113	202	55					
Total Labor	\$28,763	\$384	\$105	è		٠ -	¢	
Machinery Cost	\$34,865	\$466	\$128	Ý	·	. ¥	— - <u>`</u>	
Total Labor & Mach.	\$63,628	\$850	\$233	\$		\$		
					·			

ANNUAL CASH FLOW WORKSHEEET

,	Regional	Mw	Farm	Expected	1986
Item	Average	Total	Per Cow		Projection
1 COM	(per cow)	<u> </u>	<u> </u>		
Average number of cows	75				
Accrual Oper. Receipts	. •				
Milk	\$1,948	3	\$		\$
Dairy cattle	158				
Dairy calves	29				
Other livestock	4				
Crops	11				
Misc. receipts	<u>99</u>				
Total	\$2,250	\$	\$		\$
Accrual Oper. Expenses					
Hired labor	\$ 202 \$	}	\$		\$
Dairy grain & conc.	472				
Dairy roughage	15	ALCOHOLD TO THE PARTY OF THE PA			
Other lystk, feed	7				-
Mach. hire/rent/lease	17				
Mach. rpr./parts & auto	125				
Fuel, oil & grease	81				
Replacement lvstk.	14				
Breeding	27				
Vet & medicine	41				
Milk marketing	105				
Cattle lease	<1				
Other lvstk. exp.	79				
Fertilizer & lime	92				
Seeds & plants	37				
Spray/other crop exp.	34			(1)	
Land, bldg., fence repair	24				
Taxes	55				
Insurance	35		ORGENIA DE LA CAMBRIA	COMMISSION CONTRACTOR	-
Real est. rent/lease	47				_
Utilities	59	CE2000-000-27141714-00-00-01-01-0		Q	
Miscellaneous	28				
Total Less Int. Paid	\$1,597			and the state of t	\$
Net Accrual Operating Incom	e (total)		(total)		
(without interest paid)		,727	§		\$
- Change in lvstk./crop inv	. 2	, 648			-
- Change in accts. rec.		148			
+ Change in feed/supply inv	•	-379			
+ Change in accts. payable		<u>534</u>			_
NET CASH FLOW	\$45	,917	\$		\$
- Personal withdrawals &					
family expenditures	_16	<u>, 859</u>			
Available for Debt Payments					
Investments & Savings		,058	\$		\$
- Farm Debt Payments		<u>,484</u>		· · · · · · · · · · · · · · · · · · ·	
Available for Investment				• .	
& Savings	\$-4	,426	\$		\$
- Capital Purchases: cattle	,		_		
machinery & improvements	16	,380			
Additional Capital Needed		;	\$		\$
•					

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 50 Western Plateau Region Dairy Farms, 1984 and 1985

	Ave	rage	My Farm		
Selected Factors	1984		1984	1985	Goal
Cima of Possina					
Size of Business					
Average number of cows	75	77			
Average number of heifers	63	65			
	1,138,498				
Worker equivalent	2.90		-		
Total tillable acres	251	262			
Rates of Production					
Milk sold per cow, lbs.	15.083	15,431			
Hay DM per acre, tons	2.6				
Corn silage per acre, tons					***************************************
our strage per acre, coms	±3	≟ -₹			
Labor Efficiency					
Cows per worker	26	27			
Milk sold per worker, lbs.	391,910	408,959			
Cost Control					
Grain & conc. purchased					
as % of milk sales	25%	24%			
Dairy feed & crop exp.	200				
per cwt. milk	\$4.65	\$4.27	Ś	Ś	Ś
Labor & mach. costs/cow	\$833	\$845	\$	Ś	\$
Labor & macri. Cobes/Cow	4033	ÿ043	Υ	Ψ	Υ
Capital Efficiency*					
Farm capital per cow	\$5,541		\$	\$	\$
Real estate per cow	\$2,592	\$2,544	\$	\$	\$
Mach. & equip. per cow	\$1,026	\$1,003	\$	\$	\$
Capital turnover, years	2.4	2.3			
Profitability					
Net farm inc. w/o apprec.	\$13,643	\$17,496	Ś	Ś	Ś
Net farm inc. w/o apprec.	\$13,043		š	Š	\$
Labor & mgmt. income	\$-1,762	\$20,193	<u> </u>	\$	š
	ų-1,/02	92,300	Υ	Υ	Υ
Rate of return on eq.	1 40				
capital w/apprec.	-1.4%	-0.3%			
Financial Summary					
Farm net worth	\$271,703	\$270,921	\$	\$	\$
Debt to asset ratio	0.35	0.35			
Farm debt per cow	\$1,904	\$1,834	^	\$	<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

Size of Business			Rates	of Produ	ction	Labor Efficiency		
				Tons	Tons			
Worker	No.	Pounds	Pounds	Hay	Corn	Cows	Pounds	
Equiv-	of	Milk	Milk Sold	Crop	Silage	Per	Milk Sold	
alent	Cows	Sold	Per Cow	DM/Acre	Per Acre	Worker	<u>Per Worker</u>	
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	
					40			
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	% Feed is	Machinery	Labor &	Feed & Crop
Bought	of Milk	Costs	Machinery	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> <u>cost is not necessarily the most profitable</u>. 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 <u>Farm Business Chart</u> 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

	Liquidity (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	/Asset Ratio	Capital	Rate o	f Return on
Leverage Ratio ¹	Percent Equity	Long Term	Intermediate & Current	Turnover (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

 $^{^{1}\}mbox{Dollars}$ of debt per dollar of equity, computed by dividing total liabilities by total equity.

 $^{^2\}mathrm{Return}$ 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

The same and the	Less than	40 to	55 to	70 to
Item Farms with:	40 Cows	54 Cows	69 Cows	84 Cows
<u>Capital Investment</u> (end of year)	0 20 002	A E0 001	A 01 100	A100 126
Livestock	\$ 39,803	\$ 58,991	\$ 81,180	\$100,136
Feed & supplies	11,239	17,653	26,056	34,432
Machinery & equipment Land & buildings	40,402 120,967	53,984 <u>142,160</u>	76,669 <u>193,710</u>	97,951 225,287
Dana a barraings	120,707	142,100		
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 <u>3,791</u>	738 3,991	1,411 <u>5,448</u>	2,271 5,640
Miscellaneous receipts Total Cash Receipts	\$ 68,313	\$101,047	\$140,685	\$175,123
Increase in livestock	-589	687	889	3,018
Increase in feed & supplies	501	10	2,085	435
Appreciation	1,609	3,371	6,243	5,188
TOTAL FARM RECEIPTS	\$ 69,834	\$105,115	\$149,902	\$183,764
TOTAL FARM REC. EXCL. APPREC.	\$ 68,225	\$101,744	\$143,659	\$178,576
Expenses				
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	2,072 549	3,157 766	4,494 1,692	6,131 1,116
Replacement animals Breeding fees	875	1,238	2,062	2,548
Veterinary & medicine	1,072	1,617	2,641	3,098
Milk marketing	4,893	7,345	9,676	12,223
Cattle lease	0	55	87	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 1,441	9,300 3,088	12,660 <u>4,125</u>	14,845 <u>5,609</u>
Misc. expenses (incl. rent) 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%	7,433	9,162	<u>12,678</u>	15,771
TOTAL FARM EXPENSES	\$ 72,267	\$101,083	\$145,501	\$179,747
Financial Summary				
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

					252
	85 to	100 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	\$223.343	\$ 317,993	\$ 470,722
Feed & supplies	41,199	60,934	81,393	113,736	189,321
Machinery & equipment	111,838		183,205	190,946	
Land & buildings	242,050	348,070	415,970	581,058	
Edito o portrorito					
TOTAL INVESTMENT	\$519.834	\$710.183	\$903,911	\$1,203,733	\$1,799,551
	, ,	,, ,	,	. , ,	
Receipts					
Milk sales	\$189,618	\$256,245	\$343,599	\$505,975	\$ 838,467
Dairy cattle sold	12,783		24,102	37,420	
Other livestock sales	2,448		5,448	8,275	9,101
Crop sales	1,066		5,851	4,013	
Miscellaneous receipts	4,509	9,564		19,824	
Total Cash Receipts	\$210,424	\$288,752	\$397,177	\$575,507	\$ 921,786
Increase in livestock	5,264	2,971	7,534	4,471	51,943
Increase in feed & supplies	281	7,022	6,856	4,218	14,687
Appreciation	2,746		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
<u>Expenses</u>					
Hired labor		\$ 27,852		\$ 77,411	
Dairy grain & concentrate	49,523	61,297	78,388	115,416	
Other feed	1,616	3,305	3,705	4,065	
Machine hire	1,049	1,539	2,704	3,679	
Machinery repair	10,347	14,395	20,231	27,963	
Auto expense (farm share)	608	307	534	696	
Gas & oil	7,220	10,651	13,739	19,720	
Replacement animals	1,045	1,673	4,834	1,189	
Breeding fees	2,715	3,811	5,028	8,061	
Veterinary & medicine	3,776		6,729	12,980	
Milk marketing	15,285		26,629 0	39,971 0	
Cattle lease	150			_	
Other livestock expense	8,091 9,363	9,643 13,360	15,299 21,445	17,745 26,273	
Fertilizer & lime	3,122		7,169	9,889	
Seeds & plants Spray & other crop expense	2,126	4,726	7,328	6,131	15,530
Land, bldg., fence repair	2,697	3,860	3,746	6,384	9,185
Taxes & insurance	7,346		13,188	16,264	
Elec. & phone (farm share)	5,464				
Interest paid	19,120			50,300	
Misc. expenses (incl. rent)	5,312				
Total Cash Expenses		\$238,212	\$335,289		
Expansion livestock	1,040	729	3,596	7,173	
Machinery depreciation	16,720	21,513	29,514		
Building depreciation	7,497			22,077	
Unpaid family labor	1,698				
Interest on equity @ 5%	16,884				
1	*				
TOTAL FARM EXPENSES	\$216,502	\$295,320	\$410,181	\$577,482	\$894,371
Financial Summary					
NET CASH FARM INCOME	\$37,761	\$50,540	\$61,888	\$99,443	\$189,734
Labor & Management Income	\$-533				
Number of Operators	1.37				
LABOR & MGT. INCOME/OPER.	\$-389				
LABOR, MGT. & OWNSHP. INC./OP					
	, ,	, ,		. , , ,	. , ,

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		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
% feed is of milk receipts	29%	26%	24%	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	
Investment per cwt. milk	\$48	\$41	\$41	
Land & buildings per cow	\$3,558	\$2,962	\$3,176	\$2,852
Machinery investment per cow	\$1,188		\$1,257	
Capital turnover	3.0	2.6	2.5	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

^{*}Average of all farms.

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

		_			
	85 to	100 to		200 to	
Item Farms with:	99 Cows		199 Cows		
Number of farms	43	56	25	16	15
Size of Business			4	000	250
Number of cows	91	124	170	229	359
Number of heifers	83	111	134	200	285
Pounds of milk sold	1,399,400	L,878,500 2	2,553,000 3	1,692,600	6,247,600
Worker equivalent	3.08	3.92	4.67	6.1/	8.58
Total work units	1,030	1,398	1,907	2,541	
Total tillable acres	290	383	549		
(Tillable acres rented)*	(101)	(136)	(220)	(222)	(260)
Rates of Production					
Milk sold per cow	15,378	15,149	15,018		
Tons hay crop dry matter/	acre 2.7	2.9		3.3	4.0
Tons corn silage per acre		13.8		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		412	443
Feed Costs					
Feed purchased per cow	\$544	\$494	\$461	\$504	\$561
Crop expense per cow	\$161	\$179	\$211	•	\$167
Feed cost per cwt. milk	\$3.54		•		-
Feed & crop exp./cwt. mil					·
% feed is of milk receipt					
Tons forage dry matter/co					8.0
Tillable acres per cow	3.2				
Fertilizer & lime/crop ac		\$35			
Machinery & Labor Costs					
Total machinery costs	\$41.499	\$54,991	\$75,651	\$94,090	\$129,309
Machinery cost per cow					\$360
Machinery cost per cwt. m		\$2.93		\$2.55	\$2.07
Labor cost per cow	\$337	\$338			
Labor cost per cwt. milk	\$2.19	\$2.23		•	\$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		
Investment per cwt. milk	\$37	\$38	\$35	\$33	\$29
Land & buildings per cow	\$2,603				
Machinery investment per					
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	
Acres corn silage*	71	102	144	235	326
	, .		<u> </u>		

^{*}Average of all farms.

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

					enver with a second of the second	
		Less Than	40 to	55 to	70 to	85 to
Item	Farms with:	40 Cows	54 Cows	69 Cows	84 Cows	99 Cows
. 1		, -	100	0.4		
Number of farms		45	100	94	64	43
A A						
Assets	3	ć 20 002	¢ E0 012	ć 01 10A	¢100 161	6107 777
Livestock (includes		\$ 39,803	\$ 59,013	\$ 81,180	\$100,161	(0)
discounted lease payments)		(0) 11,239	(22) 17,653	(0) 26,056	34,432	, ,
Feed & supplies	. / 3 7	40,617	55,212		98,722	
Machinery & equip				77,650 (981)	(771)	(799)
discounted lease		(215)	(1,228)			
Land & buildings		121,757	144,453	194,790	227,936	246,366
discounted lease payments)		(608)	(2,293)	(1,080)		(4,316)
Co-op investment		950	2,842	3,971	4,747	7,902
Accounts receivable		5,903	8,170	11,281	14,229	
Cash & checking a		$\frac{1,084}{$221,171}$	1,664	2,028	3,492	2,463
	Total Farm Assets		\$289,007	\$396,956		\$552,628
Savings accounts	ō	2,892	3,025	2,751	4,773	3,694
Cash value life i	Insurance	2,071	2,119	3,115	2,670	
Stocks & bonds		990	2,082	2,195	3,755	
Nonfarm real esta		3,853	2,905	8,897		•
Auto (personal share)		1,464	1,903	2,005	1,806	
All other		<u>7,871</u>	9,212	<u>6,298</u>	6,887	5,231
m . 1 37 . C	A	A 10 1/1	A 01 046	ė os oci	A 05 5/7	ė 10 E02
Total Nonfarm A	Assets	\$ 19,141	\$ 21,246			
TOTAL ASSETS		\$240,312	\$310,253	\$422,217	\$309,200	\$571,211
7:-1:7:-:-						
<u>Liabilities</u>		ć 40 10c	ė 61 /27	¢ 90 27/	¢ 07 177	¢120 575
Long-term		\$ 48,126	\$ 61,437			\$130,575 68,539
Intermediate		20,644		,		
Financial lease		823	•	2,061		
Short-term		500	2,191	2,547		
Other farm accoun		2,414	3,526		***************************************	
Total Farm Liabilities		\$ 72,507	\$105,772			\$214,949
Total Nonfarm Liabilities		190	830	856	1,816	
TOTAL LIABILITIES		\$ 72,697	\$106,602	\$144,251		\$215,519
Farm Net Worth (Eq. Cap.)		\$148,664	\$183,235		\$315,423	
FAMILY NET WORT	ľH	\$167,615	\$203,651	\$277,966	\$339,134	\$333,692
Titure in the Management						
Financial Measure	<u>es</u>	700	660	660	676	. (20
Percent equity		70%				
Farm debt per cow		\$2,133	\$2,204	\$2,331	\$2,130	\$2,311
Available for debt service		000 001	622 007	<u></u> ሰረን በበግ	¢50 (70	AE7 667
& living		\$22,264				\$57,557
Scheduled annual debt pymt.				\$29,930		\$45,664
Scheduled debt pymts./cow		\$398	•		•	•
Payment as % of milk check		23%				8 248
Debt/Asset ratio			0.43	0.41	0.43	0.53
Debt/Asset ratio - intermediate						0.00
& short-term		0.22	0.28		0.26	
Cash flow coverage ratio 0.57 0.78 0.78 0.81 0						0.75

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

Item Farms with:	100 to 149 Cows	150 to 199 Cows	200 to 249 Cows	250 or More Cows
Number of farms	56	25	16	15
Number of Farms	50	23	10	13
Assets	6166 776	6 222 242	ć 217 002	¢ 470 722
Livestock (includes	\$166,776	\$ 223,343	\$ 317,993 (0)	\$ 470,722 (0)
discounted lease payments) Feed & supplies	(0) 60,934	(0) 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	
TOTAL ASSETS	\$784,926	\$1,017,385	\$1,317,611	\$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	\$788,847	\$1,217,767
Financial Measures	600	(20	(00	600
Percent equity	62%			
Farm debt per cow Available for debt service	\$2,384	\$2,160	\$2,259	\$1,918
& living	\$79,761	\$103,180	\$150,134	\$277,674
Scheduled annual debt pymt.	\$67,136	\$92,504	\$118,968	\$186,887
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?