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## Stuart F. Smith

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## 1985 DAIRY FARM BUSINESS SUMMARY Western Plain 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 decisionmaking 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.

<sup>\*</sup>This summary was prepared by Stuart F. Smith with invaluable assistance from Linda Putnam, Cindy Farrell, Beverly Carcelli, and Mary Chaffee, Department of Agricultural Economics, New York State College of Agriculture and Life Sciences, Cornell University. The individual business records were collected by Cooperative Extension agents Merville Button and David Thorp and regional specialist George Allhusen. The Western Plain Region (with the number of participating farms in parentheses) is comprised of Erie (6), Genesee (5), Livingston (10), Monroe (2), Niagara (4), Orleans (4), and Wyoming Counties (14).

## 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.

Type of Farm	Number	Type of Business	Number
Dairy	40	Single proprietorship	22
Part-time dairy	0	Partnership	20
Dairy cash-crop	5	Corporation	3
Part-time cash-crop dairy	0	Other	0
			1
Type of Ownership	Number	Type of Barn	Number
Owner	42	Stanchion	12
Renter	3	Freestall	32
		Other	1
Milking System	Number	Business Record System	Number
Bucket & carry	0	CAMIS	2
Dumping station	2	Account Book	19
Pipeline	12	Agrifax (mail-in only)	16
Herringbone parlor	27	On-Farm Computer	6
Other parlor	4	Other	2
-			
Dairy Records Service	Number		Number
DHIC	32	Other	2
0.S.	11	None	0
<u>Milk Diversion Program Pa</u>	rticipants	Number: 3	

## BUSINESS CHARACTERISTICS 45 Western Plain Dairy Farms, 1985

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.

<u>A dairy cash-crop farm</u> has income from crop sales that exceed 10 percent of milk sales.

<u>A farm renter</u> 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	Change in	Change in	Accrual
Expense Item	Paid +	Inventory		
<u>Hired Labor</u>	\$ 46,207		\$-198	\$ 46,009
Feed				
Dairy grain & conc.	69,513	\$ -214	100	69,399
Dairy roughage	1,577	0	-4	1,573
Other livestock	709	-7	0	702
Machinery				
Mach. hire, rent/lease	3,616		-120	3,496
Machinery repairs/parts	18,603	- 31	-125	18,447
Auto expense (f.s.)	308		0	308
Fuel, oil & grease	11,937	-77	105	11,965
<u>Livestock</u>				
Replacement livestock	1,957		0	1,957
Breeding	5,170	-153	108	5,125
Vet & medicine	7,958	- 58	-180	7,720
Milk marketing	16,661		- 7	16,654
Cattle lease/rent	0		0	0
Other livestock expense	14,219	3	95	14,317
Crops				
Fertilizer & lime	17,005	-383	- 77	16,545
Seeds & plants	7,396	-236	39	7,199
Spray, other crop exp.	7,771	-284	51	7,538
<u>Real Estate</u>				
Land/bldg./fence repair	3,973		-199	3,774
Taxes	6,666		-171	6,495
Insurance	5,543		- 76	5,467
Rent & lease	8,460		31	8,491
<u>Other</u>				
Telephone (f.s.)	640		0	640
Electricity (f.s.)	7,430		69	7,499
Interest paid	35,499		- 98	35,401
Miscellaneous	2,981	<u>-365</u>	<u> </u>	2,546
Total Operating	\$301,799	\$-1,805	\$-727	\$299,267
Expansion livestock	\$722		\$-95	\$ 628
Machinery depreciation				27,020
Building depreciation				14,660
TOTAL ACCRUAL EXPENSES				\$341,575

CASH AND ACCRUAL FARM EXPENSES 45 Western Plain Dairy Farms, 1985

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

<u>Accrual expenses</u> are the costs of inputs actually used in this year's production. The values 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.

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Expense Item	Cash Paid	+	Change in Inventory	+	Change in Accounts Payable	Accrual <u>    Expenses</u>
Hired Labor	\$		\$		\$	\$
Feed	۹		Ŷ		Ŷ	۷
<u>reeu</u> Dairy grain & conc.						
Dairy roughage			. <u> </u>			
Other livestock						
<u>Machinery</u> 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		_				
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.)						
Interest paid						
Miscellaneous						
Total Operating	\$		\$		\$	\$
Expansion livestock						
Machinery depreciation						
Building depreciation		_				
TOTAL ACCRUAL EXPENSES	\$		\$		\$	\$

CASH AND ACCRUAL FARM EXPENSES WORKSHEET

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

<u>Accrual expenses</u> 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.

Receipt Item	Cash Receipts	+	Change in Inventory	+	Change in Accounts Receivable	+	Accrual Receipts
<u></u>							
Milk sales	\$339,436				\$ -310		\$339,126
Dairy cattle	21,855		\$8,391		-13		30,233
Dairy calves	3,848				0		3,848
Other livestock	613		82		0		695
Crops	7,599		1,299		-11		8,887
Government receipts	4,361		-		20		4,381
Custom machine work	348				-66		282
Gas tax refund	262				0		262
Other	5,999				2,390		8,389
Total Accrual Receipts	\$384,321		\$9,772		\$2,010		\$396,103

CASH AND ACCRUAL FARM RECEIPTS 45 Western Plain Dairy Farms, 1985

<u>Cash receipts</u> include 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.

<u>Accrual receipts</u> 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.

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	\$	\$	\$	\$

## CASH AND ACCRUAL FARM RECEIPT WORKSHEET

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 <u>excluding</u> <u>appreciation</u>. 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.

<u>Net farm income</u> 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.

Item	Average	My Farm
Total accrual receipts	\$396,103	\$
Appreciation: Livestock	-17,180	
Machinery	2,619	····
Real Estate	8,551	
Total Including Appreciation	\$390,093	\$
Total accrual expenses	-341,575	-
Net Farm Income (with appreciation)	\$ 48,518	\$
Net Farm Income (without appreciation)	\$ 54,528	\$

NET FARM INCOME 45 Western Plain Dairy Farms, 1985

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 45 Western Plain Dairy Farms, 1985

	Aver	tage	My Farm		
Item	With Apprec.	Without Apprec.	With Apprec.	Without Apprec.	
Net farm income	\$48,518	\$54,528	\$	\$	
Family labor unpaid @ \$550 per month	-1,100	-1,100			
Return to operator(s') labor, management, & equi	ty \$47,418.	\$53,428	\$	\$	

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.

Labor and management income per operator measures the return to each operator's labor and management.

# LABOR AND MANAGEMENT INCOME 45 Western Plain Dairy Farms, 1985

Item	Average	My Farm
Return to operator(s') labor, management, & equity without appreciation	\$53,428	\$
Real interest @ 5% on \$516,419 equity capital	-25,821	
Labor & Management Income	\$27,607	\$
Labor & Management Income per 1.58 Operators	\$17,436	\$

<u>Return on equity capital</u> 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 45 Western Plain Dairy Farms, 1985

Item	Average	My Farm
Return to operator(s') labor, management, & equity capital with appreciation	\$47,418	\$
Value of operator(s') labor & management	-30,903	-
Return on equity capital with appreciation	\$16,515	\$
Rate of return on equity capital with appreciation	3.2%	
Return on equity capital without appreciation	\$22,525	\$
Rate of return without appreciation	4.4%	

## 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.

			Farm Liabilities		
Farm Assets	<u>Jan. 1</u>	Dec. 31	& Net Worth	Jan. 1	<u>Dec. 31</u>
Current			Current		
Farm cash, checkin	g		Accounts payable	\$ 8,068	\$ 7,630
& savings	\$ 6,621	\$ 5,746	Operating debt	3,385	3,697
Accounts rec.	31,960	30,955	Short-term	7,364	11,402
Feed & supplies	80,679	83,779			
Total	\$119,260	\$120,480	Total	\$ 18,817	\$ 22,729
<u>Intermediate</u>			<u>Intermediate</u>		
Dairy cows:				\$165,139	\$158,854
owned	\$131,820	\$128,473			
leased	0	0			
Heifers	61,727	56,308			
Bulls/other lvstk.	1,674	1,732			
Mach./eq. owned	170,011	168,127			
Mach./eq. leased	613	495	Financial lease		
Coop stock & cert.		30,671	(cattle/mach.)	\$ 613	\$ 495
Total	\$393,512	\$385,806	Total	\$165,753	\$159,349
Long-Term			Long-Term		
Land/buildings:				\$164,000	\$159,361
owned	\$348,026	\$351,572			
leased	296	153			
Total	\$348,322	\$351,725	Financial lease		
			(structures)	296	153
			Total	\$164,296	\$159,514
Total Farm Assets	\$861,094	\$858,011	Total Farm Liab.	\$348,865	\$341,592
			FARM NET WORTH	\$512,229	\$516,419
•·····································			Nonfarm Liabiliti	es	
Nonfarm_Assets*	Jan. 1	<u>Dec. 31</u>	& Net Worth*	<u>Jan. 1</u>	Dec. 31
Personal cash, chk	g.				
& savings		\$ 6,796	i i		
Cash value life in		6,510	Nonfarm		
Nonfarm real estat	•	12,022	Liabilities	\$ 3,100	\$ 4,466
Auto (personal sh.		4,548			• • •
Stocks & bonds	1,172	1,974			
Household furn.	8,713	9,204			
All other	2,249	2,694	NONFARM NET		
Total Nonfarm	\$39,930	\$43,748	WORTH	\$36,830	\$39,282
*A				· · · ·	

1985 FARM BUSINESS & NONFARM BALANCE SHEET 45 Western Plain Dairy Farms, 1985

\*Average of 23 farms reporting.

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.

			Farm Liabilities		
Farm Assets	Jan. 1	Dec. 31	& Net Worth	<u>Jan. 1</u>	<u>Dec. 31</u>
Current Farm cash, checking & savings			<u>Current</u> Accounts payable Operating debt Short-term:		
Accounts rec. Feed & supplies					•••••••••••••••••••••••••••••••••••••••
Total			Total		
<u>Intermediate</u> Dairy cows: owned leased			<u>Intermediate</u>		
Heifers Bulls/other lvstk. Mach./eq. owned					
Mach./eq. leased Coop stock & cert. Total			Financial lease (cattle/mach.) Total		
Long-Term Land/buildings: owned leased			<u>Long-Term</u>		
Total			Financial lease (structures) Total		
Total Farm Assets			Total Farm Liab. FARM NET WORTH	······································	
			Nonfarm Liabilitie	es	
Nonfarm Assets	<u>Jan. 1</u>	Dec, 31	& Net Worth	Jan, 1	<u>Dec. 31</u>
Personal cash, chkg	<u>z</u> .		Nonfarm Liab.:		
& savings Cash value life ins.					
Nonfarm real est. Auto (pers. share) Stocks & bonds Household furn.			Total Nonfarm Liabilities		•
All other Total Nonfarm			Nonfarm Net Worth		
TOTAL FARM & NONFAR	RW		Jan. l	Dec	. 31
Total Farm & Nonfar Less Total Farm & M Farm & Nonfarm Net	Nonfarm Li	labilities			

1985 FARM BUSINESS & NONFARM BALANCE SHEET

<u>Balance sheet analysis</u> 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.

Item		Avera	age	My Farm
<u> Financial Ratios - Farm</u> :				
Percent equity		60	<b>3</b>	8
Debt/asset ratio: total		0.40	0	
long-term		0.4	5	
intermediate	/current	0.30	5	
Financial Ratios - Farm & Nonf	arm:			
Percent equity		63	18	8
Total debt/asset ratio		0.39		
<u>Farm Debt Analysis</u> :				
Accounts payable as % of total	debt	:	8	
Long-term liabilities as a % o	f total de	bt 41		
Current & inter. liab. as a %	of total d	ebt 53	38	
		Per Tillable		Per Tillable
<u>Farm Debt Levels</u> :	<u>Per Cow</u>	Acre Owned	<u>Per Cow</u>	Acre Owned
Total farm debt	\$2,190	\$1,275	\$	\$
Long-term debt	1,023	595		
Intermediate & current debt	1,167	679		

## BALANCE SHEET ANALYSIS 45 Western Plain Dairy Farms, 1985

<u>Balance sheet analysis</u> 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	INVENT	CORY BA	ALANCE	
45	Western	Plain	Dairy	Farms,	1985

Item	Avg. of Regional Farms			My Farm		
	<u>R,E.</u>	Mach./Eq.	<u> </u>	Е.	<u>Mach./Eq.</u>	
Value beg. of year	\$348,	026 \$170	),011 \$		\$	
Purchases	\$13,552*	\$23,631	\$	\$		
Lost capital	-1,760	0	-	-		
Sales	-2,137	-1,114	-	-		
Depreciation	<u>-14,660</u>	<u>-27,020</u>	-	-		
Net investment	\$-5,	.005 \$-4	+,503 -+		<del></del>	
Appreciation	+8,	551 +2	2,619 +	+		
Value end of year	\$351,	\$168	3,127 \$ <u></u>		\$	

\* \$5,001 land and \$8,551 buildings and/or depreciable improvements.

#### Cash Flow Summary and Analysis

Imbalance (error)

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.

Item	Average	My Farm
Cash Inflows		
Beginning farm cash, checking & savings	\$ 6,621	\$
Cash farm receipts	384,321	
Sale of assets: Machinery	1,114	
Real estate	2,578	
Money borrowed (intermediate & long-term)	28,720	
Money borrowed (short-term)	10,768	
Increase in operating debt	312	
Nonfarm income	2,880	
Money borrowed - nonfarm	940	······
Total	\$438,255	\$
Cash Outflows		
Cash farm expenses	\$301,799	\$
Capital purchases: Expansion livestock	722	
Machinery	23,631	
Real estate	13,552	
Principal payments (intermediate & long-term)	39,644	
Principal payments (short-term)	6,730	
Decrease in operating debt	. 0	
Nonfarm debt payments	521	
Personal withdrawals & family exp.	29,940	
Ending farm cash, checking & savings	5,746	
Total	\$422,284	\$
T=== 1		

\$ 15,970

\$

## ANNUAL CASH FLOW STATEMENT 45 Western Plain Dairy Farms, 1985

#### 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.

		Average		My Farm			
	1985 Pa	yments_	Planned	1985 Pay	ments_	Planned	
Debt Payments	Planned	Made	1986	Planned	Made	1986	
Long-term	\$25,413	\$24,267	\$20,751	\$ \$		\$	
Intermediate-term		49,343	49,244	тт		, τ	
Short-term	8,587	5,832	6,281				
Operating (net	-,	-,	-,		**************************************	· ·····	
reduction)	0	0	1,048				
Accounts payable							
(net reduction)	2,492	2,656	2,321				
Total	\$84,162	\$82,097	\$79,644	s s		\$	
(98% planned were m	•	. ,	t r			• •	
Per cow	\$547	\$534		s s			
Per cwt. 1985 milk	\$3.18	\$3.11		\$ \$		-	
Percent of total	·	-		·····		-	
1985 receipts	21%	21%					
Percent of 1985						-	
milk receipts	25%	248				-	

FARM DEBT PAYMENTS PLANNED Same 38 Western Plain Dairy Farms, 1984 and 1985

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 38 Western Plain Dairy Farms, 1984 and 1985

[tem	Average	My Farm
Cash farm receipts	\$383,731	\$
- Cash farm expenses	301,989	
+ Interest paid	34,669	4
- Net personal withdrawals from farm*	25,662	······
(A) = Amount Available for Debt Service	\$90,749	\$
(B) - Debt Payments Planned for 1985	\$84,162	\$
(A ÷ B) = Cash Flow Coverage Ratio for 1985	1.08	

\*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.

Item	Average			My Farm			
<u>Land</u> Tillable Nontillable Other nontillable Total		58 22 3 <u>3</u>	<u>Rented</u> 211 19 <u>15</u> 245	<u>Total</u> 478 40 <u>98</u> 616	<u>Owned</u>	<u>Rented</u>	<u>Total</u>
<u>Crop Yields</u> Hay crop Corn silage Other forage	<u>Farms</u> 45 44 7	<u>Acre</u> 180 141 13	3.3 15.1 5.1 1.1	1 tn DM 8 tn DM	<u>Acr</u>	<u>es Prod</u>	<u>/Acre</u> _ tn DM _ tn _ tn DM _ tn DM
Total forage Corn grain Oats Wheat Other crops	45 37 19 18 12	320 115 32 42 29	4.1 98.2 94.7 63.4	0 bu			_ tn DM _ bu _ bu _ bu
Tillable pasture Idle Total Tillable Acres	17 19 45	22 42 478					

LAND RESOURCES AND CROP PRODUCTION 45 Western Plain Dairy Farms, 1985

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 45 Western Plain Dairy Farms, 1985

Item	Average	My Farm
Total tillable acres per cow	3.15	
Total forage acres per cow	2.11	
Harvested forage dry matter, tons per cow	8.62	

Expense	Hay crop per ton DM	Per ton corn silage equiv.
Fertilizer & lime Seeds & plants	\$ 6.53 2.20	\$3.31 1.45
Spray & other crop expense	1.53	1.65
Total	\$10.25	\$6.41

# ERRATA SHEET A.E. Ext. 86-18, page 14 Crop and Related Accrual Expenses

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## Cropping Program Analysis (continued)

A substantial number of cooperators have allocated 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 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.

	Total				Per	
	Per	<u>    Hay (</u>	<u>Crop</u>	Corn	Ton Corn	Other
	Til1.	Per	Per	Per	Silage	Crops
Expense	Acre	Acre	Ton DM	Acre	Equiv.**	Per Acre
Fertilizer & lime	\$34.57	\$12.84	\$3.83	\$27.49	\$1.74	\$13.93
Seeds & plants	15.04	4.01	1.20	11.85	0.75	8.20
Spray & other crop expense	15,75	2.80	0.83	14.35	0.91	8.13
Total	\$65.36	\$19.65	\$5.86	\$53.69	\$3.40	\$30.26
<u>My Farm</u> :						
Fertilizer & lime	\$	\$	\$	\$	\$	\$
Seeds & plants Spray & other crop						
expense Total	\$	\$	\$	\$	\$	\$

## CROP RELATED ACCRUAL EXPENSES Western Plain Dairy Farms Reporting\*, 1985

\*Hay crop expense breakdown reported by 29 farms, 279 acres per farm. Corn - 29 farms reporting average 361 acres. Other crops - 21 farms average 85 acres.

\*\*Corn grain converted to silage; 5.88 bushels dry shelled equals one ton silage.

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 45 Western Plain Dairy Farms, 1985

	Aver	age	My Farm		
Machinery	Total	Per Til.	Total	Per Til.	
Expense Item	Expenses	Acre	Expenses	Acre	
Fuel, oil & grease	\$11,964	\$ 25.00	\$	\$	
Machinery repairs & parts	18,448	38.55			
Machine hire, rent & lease	3,496	7.30			
Auto expense (farm share)	308	0.64	1		
Interest (5%)	8,453	17.66			
Depreciation	27,020	56.46			
Total	\$69,689	\$145.62	\$	\$	

#### 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.

	Dair	y Cows	Heifers		
Item	Number	Value	Number	<u>Value</u>	
Beginning of year (owned)	147	\$131,820	129	\$61,727	
+ Change without appreciation		7,287		1,104	
+ Appreciation		-10,634		-6,523	
End of year (owned)	156	\$128,473	131	\$56,308	
End including leased	156				
Average number	152		129		
<u>My Farm</u> :					
Beginning of year (owned)		\$	www.com.ett.	\$	
+ Change without appreciation					
+ Appreciation					
End of year (owned)					
End including leased					
Average number		\$		\$	

DAIRY HERD INVENTORY 45 Western Plain Dairy Farms, 1985

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 45 Western Plain Dairy Farms, 1985

Item	Average	My Farm
Total milk sold, lbs.	2,643,119	
Milk sold per cow, 1bs.	17,404	
Average milk plant test, percent butterfat	3.51	

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, <u>operating costs of</u> <u>producing milk</u> are estimated by deducting nonmilk accrual receipts from total accrual operating expenses. <u>Total costs of producing milk</u> 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.

		Average			My Farm		
Item	<u>Total</u>	Per Cow	Per Cwt.	<u> </u>	Per Cow	<u>Per Cwt.</u>	
<u>Accrual Receipts</u>							
Milk	\$339,126	\$2,233	\$12.83	\$	\$	Ś	
Dairy cattle	30,233	199	1.14	•	•	•	
Dairy calves	3,848	25	0.15				
Total	\$373,207	\$2,457	\$14.12	\$	\$	\$	
<u>Accrual Costs of</u> <u>Producing Milk</u> Operating costs Total costs with- out op(s') labor,	\$242,292	\$1,595	\$ 9.17	\$	\$	\$	
mgmt. & capital Total Costs	<u>285,696</u> \$342,420		<u>10.81</u> \$12.96	\$	\$	\$	

ACCRUAL	RECEIPTS	FROM	DAIRY	AND	COST	OF	PRODUCING	MILK
	45 Wes	tern	Plain	Dairy	/ Farm	ns.	1985	

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 45 Western Plain Dairy Farms, 1985

	Ave	cage	My Farm		
Item	Per Cow	Per Cwt.	Per Cow	Per Cwt	
Purchased dairy grain					
& concentrates	\$457	\$2.63	\$	\$	
Purchased dairy roughage	10	.06	•	*	
Total Purchased					
Dairy Feed	\$467	\$2.69	\$	\$	
Purchased grain & conc.	·	•	······································	·	
as % of milk receipts	20	)&		÷	
Purchased feed & crop exp.	\$673	\$3.87	\$	\$	
Purchased feed & crop exp.	-	·		•	
as % of milk receipts	30	)%		÷	
Breeding	\$ 34	\$0.19	\$	\$	
Veterinary & medicine	51	0.29	•	•	
Milk marketing	110	0.63			
Cattle lease	. 0	0.00			
Other livestock expense	\$ 94	\$0.54			

# Capital and Labor Efficiency Analysis

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.

Item	Per Worker	Per Cow	Per Tillable Acre	Per Tillable Acre Owned
Farm capital Real estate Machinery & equipment Capital turnover, years	\$187,539 37,009 2.17	\$5,660 2,305 1,117	\$1,796 354	\$3,207 1,306
<u>My Farm</u> : Farm capital Real estate Machinery & equipment Capital turnover, years	\$ 	\$	\$ 	\$

CAPITAL EFFICIENCY 45 Western Plain Dairy Farms, 1985

LABOR FORCE INVENTORY AND ANALYSIS 45 Western Plain Dairy Farms, 1985

Labor Force	Months	Age	Years of of Educ.	Value of Labor <u>&amp; Mg</u> mt.
Operator number 1 Operators 2 & 3	12	45 38	13 14	\$20,424 10,479
Family paid Family unpaid	, 5 2	50	14	10,477
Hired Total	<u>29</u> 55	. 10 / 6		
IOLAI	55		58 Worker Equi 58 Operator/Ma	
<u>My Farm</u> : Total Operator's		÷ 12 = ÷ 12 =	Worker Eq Operator/	uivalent Manager Equiv.

Labor	<u></u>	verage	My Farm		
Efficiency	<u>Total</u>	<u>Per Worker</u>	Total	Per Worker	
Cows, average number	152	33			
Milk sold, pounds	2,643,119	576,681			
Tillable acres	479	104			
Work units	1,695	370			

		Average			My Farm			
		Per	Per		Per	Per		
<u>Labor Costs</u>	<u>Total</u>	Cow	Til. Acre	Total	Cow	<u>Til. Acre</u>		
Value of operator(s)								
labor (\$800/month)	\$15,200	\$100	\$31.76	\$	\$	\$		
Family unpd. (\$550/mo.	) 1,100	7	2.30		•	• • • <u></u>		
Hired	46,009	303	96.14			-		
Total Labor	\$62,309	\$410	\$130.20	\$	\$	\$		
Machinery Cost	\$69,689	\$459	\$145.62	\$	\$	\$		
Total Labor & Mach.	\$131,998	\$869	\$275.81	\$	\$	\$		

	Regional	M	y Farm	Expected	1986
Item	Average	Total	Per Cow	Change	Projection
	(per cow)				
Average number of cows	152				
Accrual Oper, Receipts					
Milk	\$2,233	\$	\$		\$
Dairy cattle	199		- ····	4	· · ·
Dairy calves	25				•
Other livestock	5				
Crops	59				
Misc. receipts	88				
Total	\$2,608	<u> </u>	\$		\$
Iotai	92,000 Y	?	Y		. Ŷ
Accessed Open Expenses					
Accrual Oper. Expenses	A 202 A		<u>^</u>		^
Hired labor		\$	\$\$		\$
Dairy grain & conc.	457	····			
Dairy roughage	10				
Other lvstk. feed	5				
Mach. hire/rent/lease	23				
Mach. rpr./parts & auto	123	·····			
Fuel, oil & grease	79				
Replacement lvstk.	13				
Breeding	34				
Vet & medicine	51				
Milk marketing	110	<u>.</u>			
Cattle lease	0			<b></b>	
Other lvstk. exp.	94				
Fertilizer & lime	109				
Seeds & plants	47				
Spray/other crop exp.	50			·····	· · · · · · · · · · · · · · · · · · ·
Land, bldg., fence repair	25				
Taxes	43				-
Insurance	36				• <u>••••••</u>
Real est. rent/lease	56				
Utilities	54				
Miscellaneous	17				
Total Less Int. Paid					- ^
Iotal Less Inc. Pald	\$1,736				\$\$
Not Acore 1 Occuption Toos	- (*****1)		(+++-1)		
Net Accrual Operating Incom			(total)		•
(without interest paid)	\$132	-	\$		\$
- Change in lvstk./crop inv		,773			-
- Change in accts. rec.		,010		<u></u>	
+ Change in feed/supply inv		,805			
+ Change in accts. payable		<u>-727</u>			
NET CASH FLOW	\$117	,929	\$		\$
- Personal withdrawals &					
family expenditures	29	<u>.940</u>			
Available for Debt Payments	,				
Investments & Savings	\$87	,989	\$		\$
- Farm Debt Payments		175			-
Available for Investment					
& Savings	\$3	,814	\$		S
- Capital Purchases: cattle			······································		•
machinery & improvements		,811			
Additional Capital Needed	57	,	\$		Ś
margraner ouhrear meenen			Y		Y

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#### 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 45 Western Plain Dairy Farms, 1985

	Ave:	<u>rage</u>		My Farm		
Selected Factors	1984	1985	1984	1985	Goal	
Size of Business	<b>.</b>					
Average number of cows	144					
Average number of heifers			<u> </u>			
Milk sold, lbs.		2,643,451			_	
Worker equivalent	4.32	4.67				
Total tillable acres	471	482				
Rates of Production						
Milk sold per cow, lbs.	17,300	17,186				
Hay DM per acre, tons	3.3		<u>.</u>			
Corn silage per acre, tons		15				
					_	
Labor Efficiency	33	3.3				
Cows per worker			······································			
Milk sold per worker, 1bs.	575,255	566,454		_		
Cost Control						
Grain & conc. purchased						
as % of milk sales	21	<del>६</del> 20 <del>६</del>	\$	\$	\$	
Dairy feed & crop exp.				•		
per cwt. milk	\$4.06	\$3.82	Ś	ŝ	Ś	
Labor & mach. costs/cow	\$906	•	\$	\$ \$	_ \$	
Constal Efficiences			· ·			
Capital Efficiency*	4- 00-		•			
Farm capital per cow	\$5,905	• •	ş	_ \$ _ \$ \$	_ \$	
Real estate per cow	\$2,431		\$	_ \$	_ \$	
Mach. & equip. per cow	\$1,146	• •	\$	\$	_ \$	
Capital turnover, years	2.2	2.2				
<u>Profitability</u>						
Net farm inc. w/o apprec.	\$50,612	\$55,777	ŝ	Ś	Ś	
Net farm inc. w/apprec.	\$68,373		¢	- č	- č	
Labor & mgmt. income	\$23,224		č	_ \$ _ \$ s	– ¥	
Rate of return on eq.	Y23,224	921,700	۲	Y	4	
		o o / -				
capital w/apprec.	7.0	\$ 3.4%				
Financial Summary						
Farm net worth	\$527,749	\$534,771	ŝ	\$	Ś	
Debt to asset ratio	0.39			- \$	- <u>s</u>	
Farm debt per cow	\$2,275	\$2,065			- š	
Las AAU	7-5275	72,005	۲	<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 <u>not</u> necessarily be the same farms which make up the top 10 percent for any other factor.

Size of Business		Rates	Rates of Production			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	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

FARM	BUSINESS	CHART	FOR	FARM	MANAGEM	ENT	COOPERATORS
	458	New Y	ork	Dairy	Farms,	198	4

Feed	<pre>% Feed is</pre>	Machinery	Labor &	Feed & Crop
Bought	of Milk	Costs	Machinery	Expenses Per
Per Cow	Receipts	<u>Per Cow</u>	<u>Costs Per Cow</u>	<u>Cwt. Milk</u>
\$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</u> <u>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.

	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			
<b>\$</b> 36	\$909	7.67	2	<b>\$</b> 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			

1	FINAN	ICIAL	ANALYS	SIS	CHAR	RT .
458	New	York	Dairy	Far	ms,	1984

Solvency				Efficiency & Profitability				
		Debt	t/Asset Ratio	Capital	Rate o	Rate of Return on		
Leverage Ratio <sup>1</sup>	Percent Equity	Long Term	Intermediate & Current	Turnover (years)	Equity	Investment <sup>2</sup>		
. 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	ō		
1.72	38	.85	.55	3.25	-11	- 3		
5.04	20	1.27	. 80	4.54	- 37	- 8		

<sup>1</sup>Dollars of debt per dollar of equity, computed by dividing total liabilities by total equity.

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

	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)				
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	193,710	225,287
TOTAL INVESTMENT	\$212,411	\$272,788	\$377,615	\$457,806
<u>Receipts</u>	,			
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	738	1,411	2,271
Miscellaneous receipts	<u>3,791</u>	<u>3,991</u>	<u> </u>	<u> </u>
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 Boplecement enimals	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	9,676	12,223
Other livestock expense	2,362	55	87	125
Fertilizer & lime	2,355	3,650 3,446	5,511 6,291	6,278
Seeds & plants	697	1,081	1,933	8,000
Spray & other crop expense	693	813	1,438	2,602 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	4,125	5,609
Total Cash Expenses	\$ 54,454	\$ 79,144	\$113,164	\$140,080
Expansion livestock	¢ 54,454 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	12,678	<u>    15,771</u>
TOTAL FARM EXPENSES	\$ 72,267	\$101,083	\$145,501	\$179,747

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

\$35,043

\$-1,171 1.34

\$14,767

\$-874

\$27,521

\$-1,842

\$-1,395 \$12,939

1.32

\$13,859

\$-4,042 1.07

\$-3,778

\$4,673

\$21,903

\$11,181

\$661 1.18

\$560

Financial Summary NET CASH FARM INCOME

Labor & Management Income

LABOR, MGT. & OWNSHP. INC./OPER.

Number of Operators LABOR & MGT. INCOME/OPER.

FARM	BUSIN	NESS :	SUMMARY	BY	HERD	SIZE
458	8 New	York	Dairy	Farm	ns. 19	984

	85 to	100 to	150 to	200 to	250 or
Item Farms with:	<u>99 Cows</u>	149 Cows	199 Cows	249 Cows	<u>More Cows</u>
Capital Investment (end of ye	ear)				
Livestock	\$124,747		\$223,343		\$ 470,722
Feed & supplies		60,934	81,393	113,736	189,321
Machinery & equipment	111,838			190,946	
Land & buildings	242,050	348,070	415,970	581,058	<u> </u>
TOTAL INVESTMENT	\$519,834	\$710,183	\$903,911	\$1,203,733	\$1,799,551
<u>Receipts</u>					
Milk sales	\$189,618	\$256,245	\$343,599	\$505,975	\$ 838,467
Dairy cattle sold		16,560		37,420	48,329
Other livestock sales	2,448		5,448	8,275	
Crop sales	1,066		5,851	4,013	14,125
Miscellaneous receipts	4.509			19.824	11.764
Total Cash Receipts	\$210,424	\$288,752		\$575,507	
Increase in livestock Increase in feed & supplies	5,264 281	2,971	7,534	4,471	51,943
Appreciation	2,746	,	6,856 11,658	4,218 <u>24,903</u>	14,687 12,861
Appreciación	2,740	10,000			12,001
TOTAL FARM RECEIPTS	\$218,715	\$309,311	\$423,225	\$609,099	\$1,001,277
TOTAL FARM REC. EXCL. APPR	.\$215,969	\$298,745	\$411,567	\$584,196	\$988,416
<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 Replacement animals	7,220 1,045	10,651	13,739	19,720	24,792
Breeding fees	2,715	1,673 3,811	4,834 5,028	1,189 8,061	1,354 12,013
Veterinary & medicine	3,776	5,339	6,729	12,980	20,847
Milk marketing	15,285		26,629	39,971	52,277
Cattle lease	150		0	Ū, I I Ū	732
Other livestock expense	8,091	9,643	15,299	17,745	32,245
Fertilizer & lime	9,363			26,273	32,100
Seeds & plants	3,122		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			6,384	9,185
Elec. & phone (farm share)	7,346 5,464	10,300 6,851	13,188 8,877	16,264	18,689
Interest paid	19,120	27,319	39,003	11,927 50,300	15,604 87,833
Misc. expenses (incl. rent)	5,312	8,375	10,210	20,000	23,600
Total Cash Expenses		\$238,212	\$335,289	\$476,064	\$732,052
Expansion livestock	1,040		3,596	7,173	20,888
Machinery depreciation	16,720	21,513	29,514	32,577	48,605
Building depreciation	7,497			22,077	31,860
Unpaid family labor	1,698		760	938	1,433
Interest on equity @ 5%	16,884	22,692	29,569		59,533
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	\$3,425		\$6,714	\$94,045
Number of Operators	1.37	1.41	1.52	1.44	1.80
LABOR & MGT. INCOME/OPER.	\$-389		\$912	\$4,663	\$52,247
LABOR, MGT. & OWNSHP. INC./OP	. \$13,939	\$26,016	\$28,035	\$48,799	\$92,466

Item Farms with:	Less Than 40 Cows	40 to 54 Cows	55 to 69 Cows	70 to 84 Cows
Number of farms	<u>40 0043</u> 45	100	<u>94</u>	<u> </u>
	45	100	54	04
Size of Business	33	.7	(1	
Number of cows Number of heifers	27	47 38	61 52	77 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)	
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
<u>Machinery &amp; Labor Costs</u>				
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	\$1,188	\$1,125	\$1,257	\$1,240
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

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

\*Average of all farms.

		FACTORS BY Dairy Farms	 2
Farms with:	85 to 99 Cows	100 to 149 Cows	 200 to 249 Cows

	85 to	100 to	150 to	200 to	250 or
Item Farms with:		149 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	1,878,500 2	2,553,000	3,692,600	6,247,600
Worker equivalent	3.08	3.92	4.67	6.17	8.58
Total work units	1,030	1,398	1,907	2,541	3,801
Total tillable acres	290	383	549	622	790
(Tillable acres rented)*	(101)	(136)	(220)	(222)	(260)
<u>Rates of Production</u>					
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 acr		13.8	14.4	15.4	16.3
Bushels of oats per acre		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
<u>Feed Costs</u>					
Feed purchased per cow	\$544	\$494	\$461	\$504	\$561
Crop expense per cow	\$161	\$179	\$211	\$185	\$167
Feed cost per cwt. milk	\$3.54	\$3.26	\$3.07	\$3.13	\$3.22
Feed & crop exp./cwt. mi		\$4.62	\$4.62	\$4.38	\$4.36
% feed is of milk receip		•			
Tons forage dry matter/c		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 a		\$35	\$39	\$42	\$41
<u>Machinery &amp; Labor Costs</u>					
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	•	\$2.23	\$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		\$38	\$35	\$33	\$29
Land & buildings per cow		\$2,762	\$2,377	\$2,483	\$2,298
Machinery investment per		\$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

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\*Average of all farms.

FARM FA	AMILY FI	NANCIAL	SITUATION	BY	HERD :	SIZE
458 N	ew York	Dairy F	arms, Janu	arv	1. 19	85

Item Farms with:	Less Than	40 to 54 Cows	55 to 69 Cows	70 to 84 Cows	85 to 99 Cows
Item Farms with:	40 00ws	J4 COWS	09 00ws	04 COWS	<u> </u>
Number of farms	45	100	94	64	43
Assets					
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	7,871	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		\$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	
Financial lease	823	3,543	2,061	3,445	5,115
Short-term	500	2,191	2,547	2,059	
Other farm accounts	2.414	3,526	4,311	5,789	5,209
Total Farm Liabilities	\$ 72,507	\$105,772	\$143,395		\$214,949
Total Nonfarm Liabilities	190	830	856	1,816	570
TOTAL LIABILITIES	\$ 72,697	\$106,602	\$144,251		\$215,519
Farm Net Worth (Eq. Cap.)	\$148,664	\$183,235	\$253,561		\$337,679
FAMILY NET WORTH		•	\$277,966		
<u>Financial Measures</u>					
Percent equity	70%	66%	66%	679	e 62 e
Farm debt per cow	\$2,133	\$2,204	\$2,351	\$2,130	
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	
Scheduled debt pymts./cow	\$398	\$447	\$486	\$450	\$487
Payment as % of milk check	23%	•	•	•	•
Debt/Asset ratio - long-term		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 Yo	rk Dairy H	Farms, Janu	ary	1, 1	985

Item Farms with:	100 to 149 Cows	150 to <u>19</u> 9 Cows	200 to 249 Cows	250 or <u>More Cows</u>
item inthe with,				
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
				<u></u>
Total Nonfarm Assets	\$ 30,742	\$ 48,000	\$ 16,029	\$ 27,500
TOTAL ASSETS	\$784,926			\$1,9523,613
	<b>.</b>	+2,027,000	+=,==,,===	<i><b>4</b>2,7520,625</i>
<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	• • •
IMILII MLI WORIN	<b>9</b> <del>4</del> 03,043	<i>4037,775</i>	<i>\</i> 780,047	91,217,707
Financial Measures				
Percent equity	62%	63%	601	s 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		·	0.4/	0.45
& short-term	0.31	0.27	0.33	0.30
Cash flow coverage ratio	0.78	0.76	0.94	1.18
	0.70	0.70	0.74	1.10

#### 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 <u>strong points</u>, factors that are close to the regional average should be identified as <u>average</u>, and factors that are below average should be listed under <u>need improvement</u>.

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?