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FARM SUMMARY

SOUTHEASTERN NEW YORK 1986

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1986 DAIRY FARM BUSINESS SUMMARY Southeastern New York 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 business and financial summary and analysis of his or her farm business. The information in this report represents an average of all the data submitted from farms in 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 business and financial information farmers need and demonstrates how to use it in identifying and evaluating the strengths and weaknesses of the farm business.

Format Features

This regional report follows the same general format as in the 1986 DFBS output received by all participating dairy farmers. Worksheets have been included to give non-DFBS participants an opportunity to summarize their businesses. The analysis tables include an open column or section labeled $\underline{\text{My}}$ $\underline{\text{Farm}}$. It may be used by any dairy farmer who wants to compare his or her business with the average data of this region.

The summary section of this report features accrual accounting for farm business expenses and receipts, measures of profitability with and without appreciation, a complete balance sheet including analysis, and a cash flow summary and analysis. The farm resources are examined and evaluated in the analysis section which features crop production costs, cost of producing milk, and capital and labor efficiency.

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 70 percent of our dairy farm management field staff. This innovative program provides faster and more accurate processing of farm record data and increased use of DFBS in farm management programs.

^{*}The Southeastern Region of New York State, with the number of participating farms in parentheses, is comprised of Columbia (22), Sullivan (17), and Ulster (3) Counties.

This report was written by Stuart F. Smith, Senior Extension Associate, Farm Management. Linda Putnam was in charge of the data preparation. Cindy Farrell and Beverly Carcelli prepared the publication. Farm Business data was collected by Cooperative Extension agents Steve Hadcock, Alan White, Gerry Skoda, and Steve Billings.

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
42 Southeastern New York Region Dairy Farms, 1986

Type of Farm	Number	Type of Business	Number
Dairy	37	Single proprietorship	31
Part-time dairy	2	Partnership	9
Dairy cash-crop	3	Corporation	2
Part-time cash-crop dai	ry 0	Other	0
Type of Ownership	Number	Type of Barn	Number
Owner	34	Stanchion	33
Renter	8	Freestall	9
		Other	0
Milking System	Number	Business Record System	Number
Bucket & carry	1	ELFAC	2
Dumping station	4	Account Book	21
Pipeline	26	Agrifax (mail-in only)	14
Herringbone parlor	8	On-Farm Computer	2
Other parlor	3	Other	3
Production Records	Number		Number
DHIC	30	Other	0
O.S.	2	None	10

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 six months of labor from all operators and total labor is less than 12 months.

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.

 $\underline{\text{Dairy Termination Program participants}}$ that sold their cows in 1986 are not included in the report.

Income Statement

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

CASH AND ACCRUAL FARM EXPENSES
42 Southeastern New York Region Dairy Farms, 1986

- Journal	Cash Change in Change in Accrual						
Expense Item	Cash Paid +	Change in	Accounts Payable				
		11110111011					
Hired Labor	\$ 15,951		\$.117	\$ 16,068			
Feed			01.2	25 (00			
Dairy grain & conc.	36,156	\$ -334	-213	35,609			
Dairy roughage	688	15	76	779			
Other livestock	462	1	0	463			
Machinery			2.2	000			
Mach. hire, rent/lease	929		-39	890			
Machinery repairs/parts	7,460	- 37	86	7,509			
Auto exp. (farm share)	414		0	414			
Fuel, oil & grease	5,040	127	-127	5,040			
<u>Livestock</u>			_				
Replacement livestock	2,234		0	2,234			
Breeding	1,831	-26	-2	1,803			
Vet & medicine	2,535	92	-36	2,591			
Milk marketing	12,817		0	12,817			
Cattle lease/rent	52		0	52			
Other livestock expense	5,866	102	-184	5,784			
Crops							
Fertilizer & lime	5,984	121	81	6,186			
Seeds & plants	2,578	- 39	-10	2,529			
Spray, other crop exp.	2,146	7	0	2,153			
<u>Real Estate</u>							
Land/bldg./fence repair	2,074	-49	- 26	1,999			
Taxes	3,777		304	4,081			
Insurance	2,376		11	2,387			
Rent & lease	5,981		24	6,005			
<u>Other</u>							
Telephone (farm share)	556		0	556			
Electricity (farm share) 4,019		68	4,087			
Interest paid	9,860		0	9,860			
Miscellaneous	1,843	<u> 126</u>	12	<u>1,957</u>			
Total Operating	\$133,629	\$ 106	\$ 118	\$133,853			
Expansion livestock	1,496		0	1,496			
Machinery depreciation				11,720			
Building depreciation				5,275			
TOTAL ACCRUAL EXPENSES				\$152,344			

^{*}An increase in inventory is a negative number since it represents purchased inputs not used and must be subtracted in arriving at 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. 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).

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Worksheets are provided to enable any dairy farmer to compute his or her accrual farm expenses 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	\$				\$	\$
Feed		-			* ************************************	-
Dairy grain & conc.			\$			
Dairy roughage		-	-			
Other livestock		-				
Machinery		-			-	
Mach. hire, rent/lease						
Machinery repairs/parts		-				
Auto exp. (farm share)		-			**************************************	
Fuel, oil & grease	***************************************	-			the second secon	***************************************
Livestock		-				
Replacement livestock						
Breeding		-				
Vet & medicine		-			New Assessment of the State of	
Milk marketing	~~~	-				
Cattle lease/rent		-			***************************************	
Other livestock expense		•				***************************************
Crops		•			X-1	***************************************
Fertilizer & lime						
Seeds & plants		•			***************************************	
Spray, other crop exp.	-	-			Alta International Confession (Confession Confession Co	
Real Estate	***************************************	•				
Land/bldg./fence repair						
Taxes		-			**	
Insurance		•			***-	
Rent & lease		•				*******************************
Other	*	-			-	***************************************
Telephone (farm share)						
Electricity (farm share))	-				
Interest paid	<i></i>	-				
Miscellaneous		•				
Total Operating	\$	-	\$		\$	\$
Expansion livestock	Υ	-	Ψ		Υ	Υ
Machinery depreciation		-				
Building depreciation						
TOTAL ACCRUAL EXPENSES						ė
TOTAL MOOKOVE EVIEWSES						\$

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

<u>Change in Inventory</u>: An increase in inventory must be subtracted in computing accrual expenses because it represents purchased inputs not actually used during the year. A decrease in inventory is added to expenses because it represents the cost of inputs purchased in a prior year and used this year.

<u>Change in Accounts Payable</u>: An increase in payables is added and a decrease is subtracted when calculating accrual expenses.

Accrual Expenses are the costs of inputs actually used in this year's production.

CASH AND ACCRUAL FARM RECEIPTS
42 Southeastern New York Region Dairy Farms, 1986

Receip: Item	Cash Receipts	+	Change in Inventory	+_	Change in Accounts Receivable	+	Accrual Receipts
Milk sales	\$149,874		•		\$ 827		\$150,702
Dairy cattle	8,905		\$ 2,476		. 0		11,381
Dairy calves	1,797		•		0		1,797
Other livestock	111		-63		· 0		48
Crops	2,269		537		217		3,024
Government receipts	1,362				0		1,362
Custom machine work	468				-13		456
Gas tax refund	125				3		127
Other	1,077				0		1,077
Less nonfarm noncash cap.	*		0				0
Total Accrual Receipts	\$165,989		\$ 2,950		\$ 1,034		\$169,972

^{*}Gifts or inheritances of cattle or crops included in inventory or used in the business.

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

Accrual receipts represent the value of all farm commodities produced and services actually provided by the farmer during the year. Increases in live-stock inventory caused by herd growth and/or quality, are added and decreases caused by herd reduction are subtracted. 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 Less gifts of cattle & ca	\$		\$		\$		\$
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 changing prices must be excluded from the calculation of accrual receipts. Changes in accounts receivable are also determined by subtracting beginning of year balances from end of year balances.

Profitability Analysis

Farm owners/operators contribute labor, management, and capital to their businesses and the best combination of these resources produces optimum profits. Farm profits can be measured as the return to all family resources or as the return to one or more individual resources such as labor and management.

Net farm income is the total combined return to the farm 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 values caused by changes in prices during the year of livestock, machinery, real estate inventory, and stocks and certificates (other than FLB and PCA). Appreciation is a major factor contributing to changes in farm net worth and must be included in the profitability analysis.

NET FARM INCOME
42 Southeastern New York Region Dairy Farms, 1986

Item	Average	My Farm
Total Accrual Receipts	\$169,972	\$
Appreciation: Livestock	3,080	-
Machinery	1,798	
Real Estate	27,293	
Other Stocks/Certificates	508	
Total Including Appreciation	\$201,635	\$
Total Accrual Expenses	152,344	•
Net Farm Income (with appreciation)	49,291	\$
Net Farm Income (without appreciation)	17,628	\$

Return to operators' 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. Operators' labor is not included in unpaid family labor. Return to operators' 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 OPERATORS' LABOR, MANAGEMENT, AND EQUITY 42 Southeastern New York Region Dairy Farms, 1986

	Ave	rage	My 1	Farm
Item ·	With Apprec.	Without Apprec.	With Apprec.	Without Apprec.
Net farm income	\$ 49,291	\$ 17,628	\$	\$
Family labor unpaid @ \$600 per month	- 1,800	- 1,800	•	MACONING STATE OF THE STATE OF
Return to operators' labor, management, & equity	\$ 47,491	\$ 15,828	\$	\$

Labor and management income is the share of net farm income without appreciation returned to the operators' 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 operators' labor, management, and equity capital excluding appreciation. The interest charge reflects the long-term average rate of return that a farmer might expect to earn in comparable risk investments in a low inflation economy.

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

LABOR AND MANAGEMENT INCOME
42 Southeastern New York Region Dairy Farms, 1986

Item	Average	My Farm
Return to operators' labor, management, & equity without appreciation	\$ 15,828	\$
Real interest @ 5% on \$340,508 average equity capital	- 17,025	•
Labor & Management Income	\$ -1,197	\$
Labor & Management Income per 1.25 Operator/Managers	\$ - 95 8	\$

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 operators' 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 average farm net worth or equity capital.

RETURN ON EQUITY CAPITAL
42 Southeastern New York Region Dairy Farms, 1986

Item	Average	My Farm
Return to operators' labor, management, & equity capital with appreciation	\$ 47,491	\$
Value of operators' labor & management	- 20,284	-
Return on equity capital with appreciation	\$ 27,207	\$
Rate of return on equity capital with appreciation	8.0%	
Return on equity capital without appreciation	\$ -4,456	\$
Rate of return without appreciation	-1.3%	

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.

1986 FARM BUSINESS & NONFARM BALANCE SHEET
42 Southeastern New York Region Dairy Farms, January 1, 1987

			· · · · · · · · · · · · · · · · · · ·	
		Farm Liabilities		
Farm Assets Jan. 1	Dec. 31	& Net Worth	<u>Jan. 1</u>	<u>Dec. 31</u>
Current		Current		
Farm cash, checking		Accounts payable	\$ 2,642	\$ 2,853
& savings \$ 4,964	\$ 5,542	Operating debt	5,839	4,229
Accounts rec. 13,067	14,102	Short-term	1,642	1,113
Feed & supplies <u>36,699</u>	<u>37,130</u>			
Total \$ 54,730	\$ 56,774	Total	\$ 10,123	\$ 8,194
<u>Intermediate</u>		<u>Intermediate</u>		
Dairy cows:			\$ 28,631	\$ 34,225
owned \$ 58,022	\$ 61,318			
leased 0	0			
Heifers 22,943	25,148			
Bulls/other lvstk. 593	585			
Mach./eq. owned 79,753	81,508	Financial lease	•	
Mach./eq. leased 286	206	(cattle/mach.)	286	206
FLB/PCA stock 3,975	3,812	FLB/PCA stock	3,975	3,812
Coop stock & cert. 6,231	5,969			
Total \$171,803	\$178,546	Total	\$ 32,892	\$ 38,242
Long-Term		Long-Term		
Land/buildings:		_	\$ 73,575	\$ 71,649
owned \$211,857	\$241,983	Financial lease		
leased	1,821	(structures)	<u>2,209</u>	1,821
Total \$214,066	\$243,804	Total	\$ 75,784	\$ 73,470
Total Farm Assets \$440,599	\$479,123	Total Farm Liab.	\$118,799	\$119,906
Total latin Hodots 4440,555	V -1, 2, 123	FARM NET WORTH	\$321,800	\$359,217
		· · · · · · · · · · · · · · · · · · ·		
(Average for 32 farms report		Nonfarm Liabilit		
Nonfarm Assets Jan. 1	Dec. 31	& Net Worth	<u>Jan. 1</u>	<u>Dec. 31</u>
Personal cash, chkg.		Nonfarm Liab.	\$ 2,083	\$ 2,243
& savings \$ 8,05	54 \$ 7,738	NONFARM NET WORT	H \$ 49,084	\$ 54,745
Cash value life ins. 3,5	26 3,489			
Nonfarm real estate 21,90	69 26,575	FARM & NONFARM*	Jan. 1	Dec. 31
Auto (personal sh.) 2,33	30 2,035	Total Assets	\$491,766	\$536,111
Stocks & bonds 6,19	96 7,769	Total Liabilitie	s 120,882	122,149
Household furn. 4,35		j		
All other <u>4,7</u>	<u>5.167</u>	TOTAL FARM & NON	i	
Total Nonfarm \$ 51,16	57 \$ 56,988	FARM NET WORTH	\$370,884	\$413,962

^{*}Assumes that average nonfarm assets and liabilities for the nonreporting farms were the same as for those reporting.

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

Date	

1986 FARM BUSINESS & NONFARM BALANCE SHEET

			Farm Liabilities		
Farm Assets	<u>Jan. 1</u>	<u>Dec. 31</u>	& Net Worth	<u>Jan. 1</u>	<u>Dec. 31</u>
<u>Current</u>			<u>Current</u>		
Farm cash, checking	,		Accounts payable		
& savings	,		Operating debt		
Accounts rec.	******		Short-term:		
Feed & supplies			bilott tozm.	•	
reed d suppries					
Total			Total	***	•
Intermediate			<u>Intermediate</u>		
Dairy cows:					
owned					
leased					
Heifers					
Bulls/other lvstk.					
Mach./eq. owned					
Mach./eq. leased			Financial lease		
FLB/PCA stock			(cattle/mach.)		
Coop stock & cert.			FLB/PCA stock		
Total			Total		
Long-Term			Long-Term		
Land/buildings:			Dong-rerm		
owned			***************************************		
leased					
leased		***************************************	****	***************************************	***************************************
Total			Financial lease		********
	***************************************		(structures)		
			Total		
Total Farm Assets			Total Farm Liab.		
			FARM NET WORTH		
WHEN THE PROPERTY OF THE PROPE			Nonfarm Liabilitie	26	***
Nonfarm Assets	Jan. 1	Dec, 31	& Net Worth		Dec, 31
HOHELEN TIBBOOS	Juli. I	<u> </u>	a nee worth	Jan, 1	pec, Ji
			Nonfarm Liab.:		
Personal cash, chk	g.				
& savings					
Cash value					
life ins.			<u> </u>		
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 & Nonfa	rm Assets				
Less Total Farm & 1		iabilities	=114******		
Farm & Nonfarm Net					

Balance sheet analysis requires an examination of financial and debt ratios and other factors measuring levels of debt. Percent equity is calculated by dividing net worth by assets. Equity increases on 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. 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
42 Southeastern New York Region Dairy Farms, 1986

Item	Average	My Farm	
Financial Ratios - Farm:			
Percent equity	75%	₹	
Debt/asset ratio: total	0.25		
long-term	0.30		
intermediate/current	0.20		
Change in Farm Net Worth:			
Without appreciation	\$ 5,754	\$	
With appreciation	\$ 37,417	\$	
Farm Debt Analysis:			
Accounts payable as % of total debt	2%	<u></u> %	
Long-term liabilities as a % of total d	lebt 61%		
Current & inter. liab. as a % of total	debt 39%		
	Per Tillable	Per Tillable	
Farm Debt Levels: Per Cow	Acre Owned Per Cow	Acre Owned	
Total farm debt \$ 1,499		\$	
Long-term debt 918	735		
Intermediate & current debt 580	464	***************************************	

The <u>Farm Inventory Balance</u> is an accounting of the value of assets used on the balance sheet and the changes that occur from the beginning to end of year. Changes in the livestock inventory are included in the dairy analysis.

FARM INVENTORY BALANCE
42 Southeastern New York Region Dairy Farms, 1986

Item	Avg.	of Region	onal Far	ms	My Farm			
	<u>R.E.</u>	. 1	lach./Eq	<u></u>	R.E.	Mach./Eq.		
Value beg. of year	\$211	,857	\$ 79	,753	\$	\$		
Purchases \$	9,821*	\$ 13	L,724	\$		\$		
<pre>Gift/inheritance +</pre>	0	+	0	+		+		
Lost capital -	1,713			-				
Sales -	0	-	47	-		-		
Depreciation	5,275	- <u>1</u>	<u>L.720</u>	-		_		
Net investment	\$+ 2	2,833	\$+	-43	\$+	\$+		
Appreciation	+_27	2.293	+1	<u>.798</u>	+	+		
Value end of year	\$241	,983	\$ 81	,508	\$	\$		

^{* \$ 3,095} land and \$ 6,726 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> is structured to compare all the cash inflows with all the cash outflows for the year. A complete list of cash inflows and cash outflows are identified in the following table. When all the cash inflows and outflows are correct, the statement will balance. If the imbalance (error) amount is positive, recorded cash inflows exceed outflows by this amount. If it is negative, cash outflows are too high in relation to inflows.

ANNUAL CASH FLOW STATEMENT
42 Southeastern New York Region Dairy Farms, 1986

<u>Item</u>	Average	My Farm
Cash Inflows		
Beginning farm cash, checking & savings	\$ 4,964	\$
Cash farm receipts	165,989	
Sale of assets: Machinery	47	
Real estate	0	
Other stock & certificate	384	
Money borrowed (intermediate & long-term)	19,665	
Money borrowed (short-term)	839	
Increase in operating debt	0	
Nonfarm income	6,475	
Cash from nonfarm capital used in the business	2,239	
Money borrowed - nonfarm	<u>516</u>	
Total	\$201,119	\$
Cash Outflows		
Cash farm expenses	\$133,627	\$
Capital purchases: Expansion livestock	1,496	
Machinery	11,724	
Real estate	9,821	
Other stock & certificate	630	
Principal payments (intermediate & long-term)	15,998	
Principal payments (short-term)	1,369	
Decrease in operating debt	1,609	
Nonfarm debt payments	574	
Personal withdrawals & family expenditures	22,127	
Ending farm cash, checking & savings	5,542	
Total	\$204,518	\$
Imbalance (error)	\$ -3,399	\$

Repayment Analysis

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

FARM DEBT PAYMENTS PLANNED

Same 35 Southeastern New York Region Dairy Farms, 1985 & 1986

		Average		M	ly Fa <u>rm</u>	
	1986 P	ayments	Planned	<u>1986 Pay</u>	ments	Planned
Debt Payments	Planned	Made	1987	Planned	Made	1987
Long-term	\$ 10,797	\$ 13,241	\$ 8,225	\$	\$	\$
Intermediate-term	12,694	• •			`	
Short-term	736	1,402	681			
Operating (net		,				
reduction)	1,614	1,644	837			
Accounts payable	•	•				
(net reduction)	1,880	1,501	1,093			-
Total	\$ 27,721	\$ 31,987	\$ 24,610	\$	\$	\$
Per cow	\$ 352	\$ 406		\$	\$	
Per cwt. 1986 milk	•	-		\$	Ś	_
Percent of total	•	•				_
1986 receipts	16	199	B			
Percent of 1986					***************************************	•••
milk receipts	18	219	b			_

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 planned debt payments for 1987.

CASH FLOW COVERAGE RATIO

Same 35 Southeastern New York Region Dairy Farms, 1985 & 1986

Item	Average	My Farm
Cash farm receipts	\$168,802	\$
- Cash farm expenses	136,628	
+ Interest paid	10,304	
- Net personal withdrawals from farm*	15,924	
(A) - Amount Available for Debt Service	\$ 26,554	\$
(B) - Debt Payments Planned for 1986	\$ 27,721	\$
(A + B) - Cash Flow Coverage Ratio for 1986	0.96	

^{*}Personal withdrawals and family expenditures less nonfarm income and nonfarm money borrowed. 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
42 Southeastern New York Region Dairy Farms, 1986

Item		Average			My Farm			
Land Tillable Nontillable Other nontillable Total	10 3	00] 32 5 <u>3</u>	ented 145 26 <u>19</u> 191	Total 245 58 82 385	Owned	<u>Rented</u> 	<u>Total</u>	
Crop Yields Hay crop Corn silage	<u>Farms</u> 42 36	<u>Acres</u> 151 57	14.56	tn DM	Acres	Prod	/Acre _ tn DM _ tn _ tn DM	
Other forage Total forage Corn grain Oats	3 42 19 5	16 201 64 13	3.74	tn DM tn DM bu			tn DM tn DM tn DM bu	
Wheat Other crops Tillable pasture Idle	1 3 3 15	40 11 50 22	70.00				_ bu	
Total Tillable Acres	42	245				_		

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
42 Southeastern New York Region Dairy Farms, 1986

Average	My Farm
3.12	
2.56	
7.89	
	3.12 2.56

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.

CROP RELATED ACCRUAL EXPENSES
Southeastern New York Region Dairy Farms, 1986

,	Total			Co	rn	
	Per	Hay	Crop		Per Ton	Other
	Till.	Per	Per	Per	Silage	Crops
<u>Item</u>	Acre	Acre	Ton DM	Acre	Equiv.*	_
Number of farms						
reporting	42		28		27	7
Average number						
of acres	245	1	L37		67	12
Fertilizer & lime \$	25.26	\$ 12.83	\$ 5.11	\$ 47.41	\$ 3.02	\$ 18.34
Seeds & plants	10.32	3.29	1.31	25.24	1.61	13.40
Spray & other crop						
expense	8.79	1.06	0.42	<u>24.95</u>	1.59	21.00
Total \$	44.37	\$ 17.17	\$ 6.84	\$ 97.60		\$ 52.74
My Farm:						
Fertilizer & lime Seeds & plants	\$	\$	\$	\$	\$	\$
Spray & other crop					***************************************	
expense						
Total	\$	\$	\$	\$	\$	\$
	•		*	'	*	

^{*}Corn grain converted to silage equivalent using 5.88 bushels of dry shell equivalent to equal one ton of corn silage as fed.

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
42 Southeastern New York Region Dairy Farms, 1986

	Ave	rage	My Farm		
Machinery	Total	Per Til.	Total	Per Til	
Expense Item	Expenses	Acre	Expenses	Acre	
Fuel, oil & grease	\$ 5,040	\$ 20.58	\$	\$	
Machinery repairs & parts	7,509	30.65			
Machine hire, rent & lease	890	3.64			
Auto expense (farm share)	414	1.69			
Interest (5%)	4,032	16.46	***************************************		
Depreciation	11,720	<u>47.85</u>			
Total	\$ 29,606	\$ 120.86	\$	\$	

Dairy Program Analysis

Analysis of the dairy enterprise can tell a great deal about the strengths and weaknesses of the dairy farm business. Information on this page should be used in conjunction with DHI and other dairy production information. Changes in dairy herd size and market values that occur during the year are identified in the table below. The change in inventory value without appreciation is attributed to physical changes in herd size and quality. This real increase in inventory has been included as an accrual farm receipt on page 5.

DAIRY HERD INVENTORY
42 Southeastern New York Region Dairy Farms, 1986

	Daiı	ry Cows	He	ifers
Item	Number	Value	Number	Value
Beginning of year (owned)	77	\$ 58,022	61	\$ 22,943
+ Change without appreciation		1,809		667
+ Appreciation		1,487		1,538
End of year (owned)	79	\$ 61,318	64	\$ 25,148
End including leased	80			
Average number	79		61	
My Farm:				
Beginning of year (owned)		\$		\$
+ 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. Farm managers on DHI should compare milk sold per cow with rolling herd average on the test date nearest December 31.

MILK PRODUCTION
42 Southeastern New York Region Dairy Farms, 1986

Item	Average	My Farm
Total milk sold, lbs.	1,139,746	
Milk sold per cow, 1bs.	14,497	
Average milk plant test, percent butterfat	3.74	

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 operators' 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 calculation.

ACCRUAL RECEIPTS FROM DAIRY AND COST OF PRODUCING MILK 42 Southeastern New York Region Dairy Farms, 1986

			Average					My Farm	
Item	Total	P	er Cow	P	er Cwt.		Tot <u>al</u>	Per Cow	Per Cwt.
Accrual Receipts									
Milk	\$150,702	\$	1,917	\$	13.22	\$		\$	\$
Dairy cattle	11,381		145		1.00				
Dairy calves	$_{1.797}$		23	_	0.16				
Total	\$163,879	\$	2,084	\$	14.38	\$_		\$	\$
Accrual Costs of									
Producing Milk Operating costs	\$11/4 583	Ġ	1 457	¢	10 05	¢		¢	¢
Total costs w/o opers' labor,	Q114, J0J	Y	1,437	Y	10.03	Ψ_		Ψ	٧
mgmt. & capital	\$134,874	\$	1,716	\$	11.83	\$		\$	\$
Total Costs						\$_		\$	\$

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
42 Southeastern New York Region Dairy Farms, 1986

	Average					My Farm		
Item		r Cow	Per Cwt.		Per Cow		Per Cwt	
Purchased dairy grain								
& concentrates	\$	453	\$	3.	. 12	\$		\$
Purchased dairy roughage	_	10		0	<u>. 07</u>			
Total Purchased								
Dairy Feed	\$	463	\$	3.	. 19	\$		\$
Purchased grain & conc.								
as % of milk receipts			24%				8	
Purchased feed & crop exp.	\$	601	\$	4.	. 15	\$		\$
Purchased feed & crop exp.								. , , , , , , , , , , , , , , , , , , ,
as % of milk receipts			31%				8	
Breeding	\$	23	\$	0.	. 16	\$		\$
Veterinary & medicine		33		0.	. 23			-
Milk marketing		163		1.	.12			
Cattle lease		1		0.	.00			
Other livestock expense		74		0.	. 51			

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.

CAPITAL EFFICIENCY 42 Southeastern New York Region Dairy Farms, 1986

Item	Per Wo <u>r</u> ker	Per Cow	Per Tillable Acre	Per Tillable Acre Owned
Farm capital Real estate Machinery & equipment Capital turnover, years	\$167,222 \$29,410 2	\$ 5,849 2,912 1,029	\$ 1,877 330	\$ 4,599 2,289
My Farm: Farm capital Real estate Machinery & equipment Capital turnover, years	\$	\$ 	\$	\$

TAROR FORCE INVENTORY AND ANALYSIS

——————————————————————————————————————			NTORY AND A Region Da		, 1986	
	-			Years o		Value of
Labor Force	<u>M</u>	onths	<u>Age</u>	of Educ	. L	<u>abor & Mgmt.</u>
Operator number 1		12	45	13	\$	16,204
Operator number 2		3	39	12	·	4,080
Operator number 3		0 .	0	0		0
Family paid		5				
Family unpaid		3				
Hired		10				
Total	<u> </u>	33	÷ 12 =	2.75 Work	er Equiv	alent
				1.25 Opera	ator/Man	ager Equiv.
My Farm: Total			÷ 12 =	Worke:	r Equiva	lent
Operator's	_		+ 12 = <u></u>		-	ger Equiv.
Labor	_	rA	verage		Му	Farm
Efficiency	T	<u>otal</u>	Per Work	er T	otal	Per Worker
Cows, average number		79	29)		
Milk sold, pounds	1,13	9,746	414,453			· · · · · · · · · · · · · · · · · · ·
Tillable acres	•	245	. 89			
Work units		827	301	<u> </u>		
		Avera	age	_	My Fa	rm
		Per	Per		Per	Per
Labor Costs	<u>Total</u>	Cow	<u>Til. Acre</u>	<u>Total</u>	Cow	Til. Acre
Value of operator(s)						
	12,750	\$ 162	2 \$ 52.05	Ś	Ś	\$
Family unpd. (\$600/mo.)	•	23	•	٧	٧	_ ೪
Hired	16,068	204				
	30,618	\$ 389		\$	\$	- «
•	29,606	\$ 377	•	š	Š	- š
ridding odde y	27,000	Y 3//	Y120.00	٧	Ψ	_

Total Labor & Mach. \$ 60,224 \$ 766 \$245.86 \$

ANNUAL CASH FLOW WORKSHEET

	Re	egional			Farm	Expecte	
Item	_A	verage	'	Total	Per Co	<u>w Change</u>	Projectio
	(1	per cow)				
Average number of cows		79				*****	
Accrual Oper, Receipts							
Milk	\$	1,917	\$	····	\$		\$
Dairy cattle		145					
Dairy calves		23					
Other livestock		. 1					
Crops		38			****		
Misc. receipts		38					
Total	\$	2,162	\$	***************************************	\$		_ \$
Accrual Oper, Expenses							
Hired labor	\$	204	\$		\$		_ \$
Dairy grain & conc.		453					
Dairy roughage		10					
Other lvstk, feed		6			-		
Mach. hire/rent/lease		11					
Mach. rpr./parts & auto		101					
Fuel, oil & grease		64					
Replacement lvstk.		28					
Breeding		23					
Vet & medicine		33					
Milk marketing		163					
Cattle lease		1			***************************************		***************************************
Other lystk. exp.		74			***************************************	***************************************	
Fertilizer & lime		79					
Seeds & plants		32	_	***************************************	-		
Spray/other crop exp.		27					
Land, bldg., fence repair		25					
Taxes		52	_		-		
Insurance		30	***				
			-				
Real est, rent/lease		76 50					
Utilities		59					
Miscellaneous	<u>,</u>	25			******		
Total Less Int. Paid	\$	1,577	_				\$
Net Accrual Operating Inco	me		tal				
(without interest paid)		\$ 45	•	·	***************************************		Ş
- Change in lvstk./crop in	v.		95	-			
- Change in accts. rec.		1	.,03				
+ Change in feed/supply in			10				
+ Change in accts. payable	*		_12			***************************************	
NET CASH FLOW		\$ 42	,22	:0 \$			\$
- Net personal withdrawals	&						
family expenditures		<u> 15</u>	.13	6		***************************************	
Available for Debt Payment	s,						
Investments & Savings		\$ 27	,08	4 \$			\$
- Farm Debt Payments		_29	,62				
Available for Investment				-			
		\$ -2	,54	3 \$			\$
	e.	• -		•	11111000000		•
		\$ 23	. 67	1			
		T ~~	,	<u>s</u>		***************************************	Ś
& Savings - Capital Purchases: cattl machinery & improvements Additional Capital Needed		\$ -2 \$ 23		-			\$_ _{\$} _

^{*}Less change in account payable for interest.

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 35 Southeastern New York Region Dairy Farms, 1985 & 1986

		Ave	ra	ge	My Farm			
Selected Factors		1985		1986		.985	1986	Goal
Size of Business								
Average number of cows		78		70				
				79				-
Average number of heifers		64		63				
	1,1		Ι,.	149,108				
Worker equivalent		2.85		2.83				
Total tillable acres		245		250				
Rates of Production								
Milk sold per cow, lbs.		14,709		14,583				
Hay DM per acre, tons		2.87		2.63				
Corn silage per acre, tons		16		15				
labam Pffiaia								
Labor Efficiency		0.7		0.0				
Cows per worker		27		28			w	-
Milk sold/worker, 1bs.	4	02,957	2	405,568			····	
Cost Control								
Grain & conc. purchased								
as % of milk sales		239	k	23%		*	9	ŧ
Dairy feed & crop exp.					***************************************			,
per cwt. milk	\$	4.46	\$	4.12	Ś		Ś	Ś
Labor & mach, costs/cow	\$	793		785	\$		Š	- š
·	т		7	,	Υ		Υ	_ Y
Capital Efficiency*								
Farm capital per cow	\$	5,646	\$	5,933	\$		\$	\$
Real estate per cow	\$	2,697			\$		Ś	Ś
Mach. & equip. per cow	\$	1,020			Ś		s	s
Capital turnover, years	•	2.51	•	2.28	1		Т	_ T
Profitability	,							
Net farm inc. w/o apprec.				16,914	\$		\$	_ \$
Net farm inc. w/apprec.	\$	17,785	\$	50,768	\$		\$	\$
Labor & mgmt. income	\$	-644	\$	-2,053	\$		\$	\$
Rate of return on eq.			Í	•	•		*	
capital w/apprec.		-0.929	B	8.19%				ß
Financial Summary								
	ė a	21 620	۸.	260 /00	٨		•	•
Farm net worth, end year	ŞJ	21,628	Ş.	302,486	Ş		\$	_ \$
Debt to asset ratio		0.27						_
Farm debt per cow	Ş	1,522	Ş	1,528	\$		\$	\$

^{*}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 404 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.

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

FARM BUSINESS CHART FOR FARM MANAGEMENT COOPERATORS 404 New York Dairy Farms, 1985

Size of Business			Rates	of Produ	ction	Labor Efficiency		
Worker	No.	Pounds	Pounds	Tons	Tons Corn	Cows	Pounds	
Equiv-	of	Mi1k	Milk Sold	Hay Crop	Silage	Per	Milk Sold	
<u>alent</u>	Cows	Sold	Per Cow	DM/Acre	Per Acre	Worker	Per Worker	
	250		18 000		0.1	4.0	7.7.01.	
6.8	252	4,319,504	18,980	4.6	21	48	747,314	
4.4	134	2,108,684	17,551	3.6	18	37	575,840	
3.5	101	1,596,188	16,655	3.1	16	33	516,053	
3.1	85	1,304,015	16,116	2.9	15	31	472,387	
2.8	73	1,128,297	15,543	2.6	15	29	432,993	
2.5	65	972,841	14,953	2.4	14	26	400,211	
2.3	58	824,836	14,399	2.2	13	24	367,373	
2.0	50	725,500	13,682	2.0	12	23	330,625	
1.8	44	628,376	12,849	1.7	10	20	290,454	
1.4	34	466,272	11,055	1.3	8	16	215,433	

Grain	% Feed is	Machinery	Labor &	Feed & Crop	Feed & Crop
Bought	of Milk	Costs	Machinery	Expenses	Expenses Per
Per Cow	Receipts	Per Cow	Costs Per Cow	Per Cow	Cwt. Milk
\$185	10%	\$212	\$ 503	\$375	\$2.52
288	15	282	605	464	3.23
352	18	326	670	525	3.60
397	21	370	726	567	3.87
439	23	404	783	605	4.10
476	25	435	832	647	4.31
518	27	471	882	683	4.48
562	28	516	956	731	4.77
608	31	572	1,025	783	5.12
721	36	759	1,251	913	5.85

The next section of the Farm Business Chart provides for comparative analysis of the value of production as measured by milk receipts per cow and dairy receipts per hundredweight of milk sold and the costs of production. The final or profitability section shows the variation in farm income by decile and enables a dairy farmer to determine where he or she ranks by using several measures of farm profitability. Remember that each column is independently established and the farms making up the top decile in the first column will not necessarily be on the top of any other column. The dairy farmer who ranks at or near the top of most of these columns is in a very enviable position.

FARM BUSINESS CHART FOR FARM MANAGEMENT COOPERATORS 404 New York Dairy Farms, 1985

Milk Receipts	Dairy Receipts	Oper. Cost Milk	Oper. Cost Milk	Total Cost Production	Total Cost Production
Per Cow	Per Cwt,	Per Cow	Per Cwt.	Per Cow	Per Cwt.
\$2,735	\$16.52	\$ 901	\$ 6.10	\$1,667	\$11.26
2,508	15.15	1,112	7.70	1,895	12.55
2,399	14.68	1,231	8.39	2,007	13.29
2,290	14.40	1,334	8.93	2,088	13.94
2,197	14.13	1,399	9.39	2,196	14.47
2,097	13.91	1,498	9.82	2,281	15.02
1,999	13.67	1,584	10.32	2,360	15.82
1,898	13.42	1,672	10.94	2,480	16.55
1,760	13.08	1,800	11.82	2,609	17.45
1,507	12.11	2,074	13.81	3,032	20.80

Profitability

		Return to Oper	ator's Labor,	Lat	or &
Net Farm	n Income	Management, &	Equity Capital	Manageme	ent Income
With	Without	With	Without	Per	Per
Appreciation	<u>Appreciation</u>	<u>Appreciation</u>	Appreciation	<u>Farm</u>	<u>Operator</u>
\$101,576	\$98,427	\$100,957	\$97,616	\$67,398	\$49,398
51,232	54,238	49,740	52,972	27,247	19,608
34,730	36,084	33,833	35,030	16,338	11,912
26,015	25,033	24,933	23,703	10,248	7,708
19,413	18,975	17,901	17,131	5,056	3,887
13,695	12,180	12,066	9,951	-342	-320
9,055	6,473	6,863	4,834	-5,172	-4,523
2,290	-56	374	-1,936	-10,015	-8,491
-6,727	-9,810	-8,364	-11,125	-19,381	-16,205
-28,801	-39,020	-30,637	-40,495	-46,928	-43,181

Financial Analysis Chart

The farm financial analysis chart is designed just like the <u>Farm Business</u> <u>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. References to DFBS output page numbers for participating dairy farmers are provided in the table headings.

FINANCIAL ANALYSIS CHART 404 New York Dairy Farms, 1985

	Liqu	idity (repayment		
Debt Payments	Debt Payments as Percent	Cash Flow Coverage	Available for Debt Service	Debt
Made Per Cow	of Milk Receipts	Ratio	Per Cow	Per Cow
(DFBS pg. 7)	(7)	(7)	(11)	(5)
\$ 25	1%	7.03	\$1,012	\$ 70
171	9	2.15	780	568
264	14	1.58	674	1,011
332	18	1.30	606	1,489
406	20	1.10	527	1,858
460	24	0.96	460	2,195
518	27	0.80	387	2,584
591	31	0.65	313	3,130
722	37	0.43	244	3,679
1,165	63	-0.04	42	4,795

	S	olvency		Efficie	ncy & Profi	tability
		Debt/Asset Ratio		Total	Capital	Rate of
Percent		Current &	Long	Farm Cap.	Turnover	Return on
Equity	<u>Total</u>	Intermediate	Term	Per Cow	(years)	Equity Cap.
(DFBS						•
pg. 5)	(5)	(5)	(5)	(10)	(10)	(3)
99%	0.01	0.00	0.00	\$3,705	1.67	14
90	0.10	0.04	0.01	4,524	2.00	6
82	0.18	0.11	0.10	4,960	2.19	4
75	0.25	0.16	0.25	5,289	2.40	1
68	0.32	0.23	0.37	5,654	2.60	-1
61	0.39	0.29	0.50	5,955	2.77	-4
53	0.47	0.36	0.63	6,342	2.93	- 6
44	0.56	0.44	0.73	6,837	3.14	-11
36	0.64	0.55	0.89	7,671	3.46	-20
16	0.84	0.81	1.38	9,498	4.57	-83

Summarize Your Business Performance

The Farm Business and Financial Analysis Charts can be used to help identify strengths and weaknesses of your farm business. Identify three major strengths and three areas of your farm business that need improvement.

FARM BUSINESS SUMMARY BY HERD SIZE 404 New York Dairy Farms, 1985

	Less than	40 to	55 to	70 to	85 to
Item Farm Size:	40 Cows	54 Cows	69 Cows	84 Cows	99 Cows
Number of farms	33	93	82	55	38
ACCRUAL EXPENSES					
Hired labor	\$ 4,093	\$ 5,937	\$ 9,313	\$ 13,051	\$ 18,026
Dairy grain & concentrate	15,862	22,245	27,169	33,379	37,599
Dairy roughage	813	816	933	1,158	767
Other livestock feed	164	250	555	705	2,234
Machine hire/rent/lease	588	1,018	1,305	1,644	1,251
Machine repairs/parts	2,560	4,470	5,735	7,900	10,291
Auto expense (farm share)	405	488	450	645	368
Fuel, oil & grease	2,442	3,192	4,276	5,625	7,090
Replacement livestock	465	926	1,800	1,350	1,078
Breeding	998	1,300	1,949	2,565	2,491
Veterinary & medicine	1,173	1,672	2,601	2,933	3,664
Milk marketing	4,836	6,395	8,313	10,033	10,296
Cattle lease/rent	3	39	33	80	0
Other livestock expense	2,492	3,684	5,053	5,607	8,095
Fertilizer & lime	2,255	4,002	5,849	7,976	10,357
Seeds & plants	712	1,311	2,131	2,954	4,128
Spray & other crop expense	476	1,033	2,077	2,626	2,881
Land/building/fence repair	778	1,340	1,518	1,989	2,769
Taxes & insurance	3,725	4,505	6,227	6,668	9,482
Telephone & electricity	2,267	3,054	4,025	4,926	5,436
Interest paid	4,443	8,829	12,031	13,163	17,536
Misc. (including rent)	1,660	2,764	3,348	4.895	5.516
Total Operating Expenses	\$ 53,210	\$79,270	\$106,691	\$131,872	\$161,355
Expansion livestock	968	346	874	774	844
Machinery depreciation	6,124	7,704	10,941	15,593	17,741
Building depreciation	2.193	3.217	5.039	8.144	8.004
Total Accrual Expenses	\$62,495	\$90,537	\$123,545	\$156,383	\$187,944
ACCRUAL RECEIPTS					
Milk sales	\$59,218	\$ 88,407	\$119,550	\$151,834	\$183,742
Dairy cattle	4,811	6,521	9,436	11,266	14,400
Dairy calves	933	1,163	1,444	1,798	2,364
Other livestock	97	243	352	436	472
Crops	1,030	806	592	1,949	3,216
Misc. receipts	-1.975	3,156	5,102	5.737	7,682
Total Accrual Receipts	\$68,064	\$100,296	\$136,476	\$173,020	\$211,876
PROFITABILITY ANALYSIS					
Net farm income (w/o apprec.)		\$9,759	\$12,931	\$16,637	\$23,932
Net farm income (w/apprec.)	\$4,706	\$8,700	\$9,716	\$19,487	\$19,249
Labor & mgmt. income	\$-3,996	\$-592	\$-718	\$-453	\$4,124
Number of operators	1.08	1.17	1.33	1.42	1.42
Labor & mgmt. inc./oper.	\$-3,689	\$-508	\$-539	\$-320	\$2,911
Rate of return on equity capital (w/o apprec.)	-6.6%	-6.4%	-4.0%	-2.3%	-0.69
Rate of return on equity	0.00	0.40	- .019	- 4, 50	-0,01
capital (w/apprec.)	-7.1%	-7.0%	-5.3%	-1.4%	-1.8%

FARM BUSINESS SUMMARY BY HERD SIZE 404 New York Dairy Farms, 1985

T	100 to	150 to	200 to	250 or
Item Farm Size:	149 Cows	199 Cows	249 Cows	More Cows
Number of farms	54	20	14	15
ACCRUAL EXPENSES				
Hired labor	\$ 26,831	\$ 37,871	\$ 69,656	\$118,623
Dairy grain & concentrate	52,504	69,080	119,361	181,104
Dairy roughage	979	3,007	1,464	6,896
Other livestock feed	1,253	1,581	176	193
Machine hire/rent/lease	1,828	2,514	4,138	3,541
Machine repairs/parts	12,204	17,945	30,301	37,855
Auto expense (farm share)	372	377	829	303
Fuel, oil & grease	9,375	12,763	18,866	24,475
Replacement livestock	1,300	2,816	1,521	3,244
Breeding	3,611	4,415	7,083	11,731
Veterinary & medicine	5,044	6,398	9,844	20,184
Milk marketing	13,992	19, 197	30,848	38,127
Cattle lease/rent	68	188	0	344
Other livestock expense	9,665	13,049	17,907	31,495
Fertilizer & lime	11,193	19,173	23,424	33,953
Seeds & plants	4,444	6,000	7,942	14,478
Spray & other crop expense	3,981	7,053	10,397	15,416
Land/building/fence repair	2,981	4,147	4,852	9,358
Taxes & insurance	10,303	12,467	16,682	23,234
Telephone & electricity	6,501	7,470	11,821	17,907
Interest paid	23,255	34,925	45,152	75,543
Misc. (including rent)	6,759	11,814	<u>17.838</u>	21,921
Total Operating Expenses	\$208,443	\$294,250	\$450,102	\$689,925
Expansion livestock	1,127	7,108	1,680	16,690
Machinery depreciation	20,258	26,978	32,499	45,087
Building depreciation	9,161	<u>17,114</u>	16,621	35,310
Total Accrual Expenses	\$238,989	\$345,450	\$500,902	\$787,012
ACCRUAL RECEIPTS		_		
Milk sales	\$236,108	\$320,343	\$468,190	\$796,157
Dairy cattle	20,211	32,874	46,908	81,554
Dairy calves	2,992	3,559	5,168	8,731
Other livestock	556	21	89	775
Crops	193	5,092	10,339	16,228
Misc. receipts	7.420	16,589	21,994	15,205
Total Accrual Receipts	\$267,480	\$378,478	\$552,688	\$918,650
PROFITABILITY ANALYSIS				
Net farm income (w/o apprec.)	\$28,491	\$33,028	\$51,786	\$131,638
Net farm income (w/apprec.)	\$29,111	\$24,269	\$44,731	\$120,705
Labor & mgmt. income	\$5,196	\$6,896	\$17,279	\$76,669
Number of operators	1.50	1.58	1.67	1.58
Labor & mgmt. inc./oper.	\$3,464	\$4,355	\$10,367	\$48,423
Rate of return on equity				
capital (w/o apprec.)	-0.0%	0.6%	2.8%	8.7
Rate of return on equity				
capital (w/apprec.)	0.1%	-1.1%	1.8%	7.79

FARM FAMILY FINANCIAL SITUATION BY HERD SIZE 404 New York Dairy Farms, 1985

	- , 1	40.0	10 - 1	:/· C	55 to 6	9 Corre
Farms with:			***************************************	54 Cows Dec. 31	<u> 33 to 6</u> Jan. 1	Dec. 31
Item	<u>Jan. 1</u>	Dec. 31	Jan. 1	Dec. 31	Jan. L	Dec. JI
A C C P.T.C						
ASSETS Farm cash/chkg./sav.	\$ 2,208	\$ 1,936	\$ 1,264	\$ 1,427	\$ 2,280	\$ 2,584
Accounts receivable	6,052	5,791	7,548	7,173	10,835	10,530
Feed & supplies	11,016	11,551	17,075	17,168	25,038	25,601
Dairy cows*	27,508	25,568	40,790	38,285	55,435	52,811
Heifers	11,583	9,208	15,737	13,815	22,773	19,303
Bulls & other lvstk.	560	479	878	812	599	474
Machinery & equipment		40,782	53,683	54,064	80,279	78,950
Coop stocks & cert.	2,024	2,145	2,615	2,487	4,237	4,524
Land & buildings*	110,929	115,967	140,467	144,528	194,568	196,143
Total Farm Assets	\$213,221	\$213,427	\$280,057	\$279,759	\$396,044	\$390,921
Total raim Assets	9210,221	9213,427	Q200,03 7	Q275,735	4370,0 44	4330,322
Pers. cash/chkg./sav.	\$ 7,817	\$ 8,760	\$ 2,456	\$ 2,551	\$ 3,725	\$ 3,960
Cash value of life in		3,214	3,465	3,561	3,239	3,187
Nonfarm real estate	2,342	2,115	4,371	4,221	8,953	9,312
Auto (personal share)	•	2,224	2,246	2,522	2,190	2,416
Stocks & bonds	5,868	5,976	1,643	2,005	16,266	16,945
Household furnishings		7,365	8,216	8,391	6,930	7,925
All other	1,298	1,121	3,098		268	1,048
Total Nonfarm						
Assets**	\$ 29,866	\$ 30,776	\$ 25,495	\$ 25,369	\$ 41,569	\$ 44,793
Total Farm & Nonfarm	Y = *, **	7 00,	¥ 20,	,,,	,,	, ,
Assets	\$243,087	\$244,203	\$305,552	\$305,128	\$437,613	\$435,714
	, – , . – .	,	, ,	, ,	•	, ,
<u>LIABILITIES</u>						
Accounts payable	\$ 1,955	\$ 2,293	\$ 4,525	\$ 4,396	\$ 3,675	\$ 3,744
Operating debt	0	0	323		798	1,192
Short term	984	871	1,169	1,399	1,450	1,265
Intermediate*	17,813	17,003	36,012	36,825	44,541	44,628
Long term*	<u>32,026</u>	34,951	70,323	73,521	89,325	<u>89,105</u>
Total Farm Liab.	\$ 52,777	\$ 55,118	\$112,353	\$116,734	\$139,789	\$139,933
Total Nonfarm Liab.*	* <u>438</u>	<u> 579</u>	752		2,664	2.838
Total Farm & Nonfarm						
Liabilities	\$ 53,215	\$ 55,697	\$113,105	\$117,915	\$142,453	\$142,771
Farm Net Worth						
(Equity Capital)	\$160,444	\$158,310	\$167,704	\$163,026	\$256,255	\$250,987
Farm & Nonfarm						
Net Worth	\$189,872	\$188,506	\$192,447	\$187,213	\$295,160	\$292,943
FINANCIAL MEASURES		<u>Less than</u>		40 to 54 Co	<u>ows 55 t</u>	to 69 Cows
Percent equity			74%	58%		64%
Debt/asset ratio-lon	~		0.30	0.51		0.45
Debt/asset ratio-int			0.21	0.32		0.26
Total farm debt per			,621	\$2,382		\$2,186
Annual debt payments		\$12	,166	\$20,351	\$3	30,885
Debt payments made p			\$368	\$432		\$500
Debt payments as % o			20%	23%		26%
Amount avail. for de		•	,942	\$23,026	\$:	30,400
Cash flow coverage r	atio for 1	L985	1.74	1.07		1.04

^{*}Includes discounted lease payments.

**Average of farms reporting nonfarm assets and liabilities for 1985.

FARM FAMILY FINANCIAL SITUATION BY HERD SIZE 404 New York Dairy Farms, 1985

Farms with:		84 Cows	85 to 9	99 Cows	
Item	Jan. 1	Dec. 31	Jan. 1	Dec. 31	
	·				
<u>ASSETS</u>					
Farm cash/chkg./savings	\$ 5,766	\$ 4,884	\$ 2,617	\$ 3,422	
Accounts receivable	14,697	14,487	16,078	15,871	
Feed & supplies	35,637	35,228	44,666	46,961	
Dairy cows*	65,176	62,650	82,318	78,084	
Heifers	29,022	25,175	35,773	32,808	
Bulls & other lvstk.	747	981	1,382	1,372	
Machinery & equipment*	95,054	98,240	115,793	116,850	
Coop stocks & cert.	5,003	5,700	8,095	8,876	
Land & buildings*	204,940	208,015	260,816	257,440	
Total Farm Assets	\$456,042	\$455,360	\$567,538	\$561,684	
Pers. cash/chkg./savings	\$ 15,519	\$ 13,636	\$ 4,787	\$ 6,288	
Cash value of life ins.	4,650	5,373	3,600	3,859	
Nonfarm real estate	13,829	13,700	4,813	5,542	
Auto (personal share)	2,819	3,158	2,265	2,338	
Stocks & bonds	9,052	10,261	1,940	3,000	
Household furnishings	7,200	7,223	3,604	4,792	
All other	5,321	5,986	4,084	4,752	
Total Nonfarm Assets**	\$ 58,390	\$ 59,336	\$ 25,092	\$ 30,571	
Total Farm & Nonfarm	, ,	•	, ,	. ,	
Assets	\$514,432	\$514,696	\$592,630	\$592,255	
LIABILITIES					
Accounts payable	\$ 5,037	\$ 6,816	\$ 4,539	\$ 4,883	
Operating debt	1,074	1,924	4,013	4,144	
Short term	1,148	2,185	3,724	2,827	
Intermediate*	44,336	46,725	68,472	67,533	
Long term*	90,933	<u>88,906</u>	<u>116,051</u>	119,142	
Total Farm Liab.	\$142,529	\$146,555	\$196,799	\$198,529	
Total Nonfarm Liab.**	<u>454</u>	1,242	21	21	
Total Farm & Nonfarm					
Liabilities	\$142,983	\$147,797	\$196,820	\$198,550	
Farm Net Worth					
(Equity Capital)	\$313,513	\$308,805	\$370,739	\$363,155	
Farm & Nonfarm					
Net Worth	\$371,449	\$366,899	\$395,810	\$393,705	
FINANCIAL MEASURES	<u>70</u>	to 84 Cows	85 to	99 Cows	
Percent equity		68%		65%	
Debt/asset ratio-long term		0.43 0.46			
Debt/asset ratio-inter. & c	urrent	0.23	0.26		
Total farm debt per cow		\$1,879	\$.	2,112	
Annual debt payments made		\$30,462	\$39,392		
Debt payments made per cow		\$402		\$426	
Debt payments as % of milk	sal es	20%		21%	
Amount avail. for debt serv	ice	\$41,194	\$4	5,661	
Cash flow coverage ratio fo	~ 1985	1.40		1.09	

^{*}Includes discounted lease payments.

**Average of farms reporting nonfarm assets and liabilities for 1985.

FARM FAMILY FINANCIAL SITUATION BY HERD SIZE 404 New York Dairy Farms, 1985

Farms with:	100 to	149 Cows	150 to 199 Cows		
Item	Jan. 1	Dec. 31	<u> </u>	Dec. 31	
<u>ASSETS</u>	A (100	A 2 020	♦ E EE1	\$ 6,336	
Farm cash/chkg./savings	\$ 4,109	\$ 3,938	\$ 5,551		
Accounts receivable	20,971	20,473	27,818	32,064	
Feed & supplies	57,947	56,439	71,818	73,963	
Dairy cows*	102,408	98,777	135,614	136,797	
Heifers	46,781	45,478	59,207	53,197	
Bulls & other lvstk.	1,699	1,255	905	868	
Machinery & equipment*	128,332	127,976	157,670	159,826	
Coop stocks & cert.	12,808	13,373	24,972	28,919	
Land & buildings*	312,736	<u>317,406</u>	411,748	407,082	
Total Farm Assets	\$687,791	\$685,115	\$895,303	\$899,052	
Pers. cash/chkg./savings	\$ 3,454	\$ 3,103	\$ 1,248	\$ 1,313	
Cash value of life ins.	3,101	3,480	14,353	14,730	
Nonfarm real estate	14,212	15,212	8,333	9,167	
Auto (personal share)	3,465	3,582	3,550	2,700	
Stocks & bonds	6,212	9,026	1,963	3,404	
Household furnishings	9,167	9,785	11,417	11,417	
All other	2,949	3,461	6,660	6,826	
Total Nonfarm Assets** Total Farm & Nonfarm	\$ 42,561	\$ 47,648	\$ 47,523	\$ 49,556	
Assets	\$730,352	\$732,763	\$942,826	\$948,608	
LIABILITIES					
Accounts payable	\$ 8,457	\$ 6,855	\$ 15,603	\$ 11,279	
Operating debt	2,275	2,809	12,751	11,042	
Short term	4,442	5,789	4,901	2,918	
Intermediate*	95,195	94,518	153,072	153,000	
Long term*	129,707	131,237	204,102	220,169	
Total Farm Liab.	\$240,075	\$241,208	\$390,429	\$398,408	
Total Nonfarm Liab.**	1,064	946	4,650	3,984	
Total Farm & Nonfarm	1,004		4,030		
Liabilities	\$241,139	\$242,154	\$395,079	\$402,392	
Farm Net Worth	Y241,137	Y272, 137	Q373,077	Q402,372	
(Equity Capital)	\$447,716	\$443,907	\$504,874	\$500,644	
Farm & Nonfarm	9447,710	γ 44 3,507	φ304,074	4 500,044	
Net Worth	\$489,213	\$490,609	\$547,747	\$546,216	
FINANCIAL MEASURES	100	to 149 Cows	150 t	o 199 Cows	
Percent equity		65%		56%	
Debt/asset ratio-long term		0.41		0.54	
Debt/asset ratio-inter. & o	current	0.30		0.36	
Total farm debt per cow	Julione	\$1,977		\$2,371	
Annual debt payments made		\$60,605	ģ	98,620	
Debt payments made per cow		\$503	٧	\$611	
Debt payments as % of milk	sales			31%	
	DOTEG	25%			
Amount avail. for debt serv		\$59,930	ć	375,317	

^{*}Includes discounted lease payments.

^{**}Average of farms reporting nonfarm assets and liabilities for 1985.

FARM FAMILY FINANCIAL SITUATION BY HERD SIZE 404 New York Dairy Farms, 1985

Farms with:		249 Cows	More than 250 Cows			
Item	Jan. 1	Dec. 31	Jan, 1	Dec. 31		
ASSETS						
ASSEIS Farm cash/chkg./savings	\$ 6,837	\$ 11,847	\$ 8,039	\$ 5,409		
Accounts receivable	46,843	43,442	68,068	72,250		
	100,424	108,417	172,391	180,862		
Feed & supplies	188,896	191,052	282,847	294,830		
Dairy cows*		73,254	128,368	122,225		
Heifers	84,355	2,250	1,938	1,876		
Bulls & other lvstk.	2,011	-	252,055			
Machinery & equipment*	183,392	181,153		254,436		
Coop stocks & cert.	27,566	27,920	43,310	46,142		
Land & buildings*	499,166	501,587	781,420	808,694		
Total Farm Assets	\$1,139,490	\$1,140,922	\$1,738,436	\$1,786,724		
Pers. cash/chkg./savings	\$ 16,800	\$ 13,613	\$ 1,068	\$ 1,428		
Cash value of life ins.	8,038	9,825	5,226	6,400		
Nonfarm real estate	12,750	24,000	. 0	0		
Auto (personal share)	4,813	4,000	1,700	1,000		
Stocks & bonds	6,875	8,563	1,000	1,000		
Household furnishings	11,585	11,460	5,400	4,800		
All other	5,483	6,247	3,150	3,086		
Total Nonfarm Assets**	\$ 66,343	\$ 77,707	\$ 17,544	\$ 17,714		
Total Farm & Nonfarm Assets	\$1,205,833	\$1,218,629	\$1,755,980	\$1,804,438		
<u>LIABILITIES</u>						
Accounts payable	\$ 14,599	\$ 15,885	\$ 14,777	\$ 12,388		
Operating debt	12,829	14,851	6,667	9,667		
Short term	814	1,984	13,302	28,805		
Intermediate*	161,140	159,375	325,610	326,324		
Long term*	284,505	269,685	332,094	321,161		
Total Farm Liab.	\$473,887	\$461,780	\$ 692,450	\$ 698,344		
Total Nonfarm Liab.**	0	0	0	0,0,544		
Total Farm & Nonfarm		<u>~</u>				
Liabilities	\$473,887	\$461,780	\$ 692,450	\$ 698,344		
Farm Net Worth	γ475,007	Q401,700	Ψ 072,430	φ 0,0,544		
(Equity Capital)	\$665,603	\$679,142	\$1,045,986	\$1,088,380		
Farm & Nonfarm	9005,005	Q077,142	91,043,900	\$1,000,000		
Net Worth	\$731,946	\$756,849	\$1,063,530	\$1,106,094		
FINANCIAL MEASURES	<u>200</u>) to 249 Cows	<u>More</u> th	an 250 Cows		
Percent equity		60%		61%		
Debt/asset ratio-long term	1	0.54		0.40		
Debt/asset ratio-inter. &		0.30	0.39			
Total farm debt per cow	-	\$1,965	\$1,962			
Annual debt payments made	\$92,757	\$154,197				
Debt payments made per cov	1	\$412	\$134,197 \$438			
Debt payments as % of mill		19%		19%		
none balmenes as a or with						
Amount avail. for debt ser	wice	\$97,464	c c	220,436		

^{*}Includes discounted lease payments.

**Average of farms reporting nonfarm assets and liabilities for 1985.

SELECTED BUSINESS FACTORS BY HERD SIZE 404 New York Dairy Farms, 1985

Farms with:	Less than	40 to	55 to	70 to	85 to
<u>Item</u>	40 Cows	54 Cows	69 Cows	84 Cows	99 Cows
N. J	2.2		••		2.2
Number of farms	33	93	82	55	38
Cropping Program Analysis					
Total Tillable acres	107	165	.206	258	329
Tillable acres rented*	25	53	63	86	106
Hay crop acres*	74	107	119	132	156
Corn silage acres*	17	29	40	54	73
Hay crop, tons DM/acre	2.1	2.2	2.5	2.4	2.6
Corn silage, tons/acre	13.1	13,2	13.5	14.4	13.7
Oats, bushels/acre	61.4	82.1	86.9	76.9	74.4
Forage DM per cow, tons	6.9	7.7	7.7	7.8	8.2
Tillable acres/cow	3,3	3.5	3.3	3.4	3.6
Fert. & lime exp./til. acre	\$21.06	\$24.20	\$28.35	\$30.93	\$31.45
Total machinery costs	\$14,171	\$19,519	\$26,647	\$36,161	\$42,527
Machinery cost/tillable acre	\$132	\$118	\$129	\$140	\$129
,	• "	,	•	•	,
Dairy Analysis					
Number of cows	33	47	62	76	92
Number of heifers	25	37	48	62	77
Milk sold, lbs.	465,289	691,467	924,535	1,162,676	1,430,313
Milk sold/cow, lbs.	14,113	14,722	14,897	15,346	15,485
Operating cost of prod. milk/c	•	\$9.75	\$9.71	\$9.52	\$9.31
Total cost of prod. milk/cwt.	\$16.67	\$15.46	\$15.37	\$15.00	\$14.26
Price/cwt. milk sold	\$12.73	\$12.79	\$12.93	\$13.06	\$12.85
Purchased dairy feed/cow	\$506	\$491	\$453	\$456	\$415
Purchased dairy feed/cwt milk	\$3.58	\$3.33	\$3.04	\$2.97	\$2.68
Purchased grain & conc. as %					
of milk receipts	27%	25%	238	229	30%
Purchased feed & crop +					
expense/cwt. milk	\$4.32	\$4.25	\$4.13	\$4.14	\$3.90
Capital Efficiency					
Farm capital/worker	\$116,359	\$134,356	\$162,820	\$160,836	\$173,727
Farm capital/cow	6,470	5,960	6,340	6,015	6,113
Farm capital/til. acre owned	2,602	2,477	2,752	2,649	
Real estate/cow	3,441	3,034	3,148	2,725	2,532 2,805
Machinery investment/cow	1,245	1,147	1,283	1,276	•
Capital turnover, years	3.13	2.79	2.88	2.63	1,259 2.66
, y	3,13	2.75	2.00	2.03	2.00
Labor Efficiency					
Worker equivalent	1.83	2.08	2.42	2.83	3.25
Operator/manager equivalent	1.08	1.17	1.33	1.42	1.42
Milk sold/worker, lbs.	253,794	331,904	382,566	410,356	440,096
Cows/worker	18	23	26	27	28
Work units/worker	188	243	272	289	324
Labor cost/cow	\$490	\$412	\$374	\$374	\$360
Labor cost/tillable acre	\$151	\$117	\$113	\$110	\$101
	•	•	1	,	7

^{*}Average of all farms, not only those reporting data.

SELECTED BUSINESS FACTORS BY HERD SIZE 404 New York Dairy Farms, 1985

Farms with:	100 to	150 to	200 to	250 or
Item	149 Cows	199 Cows	_249 Cows	More Cows
T C C III	147 <u>00#</u> 3	127 00WS	247 00 W 3	HOLE COMS
Number of farms	54	20	14	15
Cropping Program Analysis				
Total Tillable acres	364	529	595	809
Tillable acres rented*	120	194	237	276
Hay crop acres*	180	235	237	280
Corn silage acres*	89	128	220	348
Hay crop, tons DM/acre	3.0	2.9	3.2	3.8
Corn silage, tons/acre	14.2	14.0	14.8	15.9
Oats, bushels/acre	81.7	64.9	71.4	93.6
Forage DM per cow, tons	8.2	8.1	8.3	8.5
Tillable acres/cow	3.1	3.3	2.7	2.4
Fert. & lime exp./til. acre	\$30.74	\$36.27	\$39.35	\$41.99
Total machinery costs	\$50,416	\$68,482	\$95,644	\$123,924
Machinery cost/tillable acre	\$138	\$130	\$161	\$153
<u>Dairy Analysis</u>				
Number of cows	119	160	223	342
Number of heifers	107	129	182	286
Milk sold, 1bs.	1,839,601	2,450,256	3,618,728	6,189,863
Milk sold/cow, 1bs.	15,524	15,295	16,233	18,099
Operating cost of prod. milk/cwt.	\$9.63	\$9.64	\$10.10	\$9.17
Total cost of prod. milk/cwt.	\$14.04	\$13.97	\$13.35	\$12.22
Price/cwt. milk sold	\$12.83	\$13.07	\$12.94	\$12.86
Purchased dairy feed/cow	\$451	\$4 5 0	\$542	\$550
Purchased dairy feed/cwt. milk	\$2.91	\$2.94	\$3.34	\$3.04
Purchased grain & conc. as %				
of milk receipts	22%	2 2 %	25%	238
Purchased feed & crop				_
expense/cwt. milk	\$3.97	\$4.26	\$4.49	\$4.07
Capital Efficiency				
Farm capital/worker	\$179,075	\$199,373	\$187,431	\$215,826
Farm capital/cow	5,793	5,600	5,115	5,154
Farm capital/til. acre owned	2,813	2,678	3,185	3,307
Real estate/cow	2,659	2,556	2,245	2,325
Machinery investment/cow	1,081	991	818	740
Capital turnover, years	2.57	2.37	2.06	1.92
Labor Efficiency				
Worker equivalent	3.83	4.50	6.08	8.17
Operator/manager equivalent	1.50	1.58	1.67	1.58
Milk sold/worker, 1bs.	479,896	544,501	594,859	757,942
Cows/worker	31	36	37	42
Work units/worker	332	379	382	439
Labor cost/cow	\$357	\$338	\$387	\$393
Labor cost/tillable acre	\$116	\$102	\$145	\$166

^{*}Average of all farms, not only those reporting data.

IDENTIFY AND SET GOALS

If businesses are to be successful they must have direction. Written goals help provide businesses with an identifiable direction over both the long and the short term. Goal setting is as important on a dairy farm as it is in other businesses. Written goals are a tool which farm operators can use to ensure that the business continues to move in the proper direction.

- 1. Goals should be specific.
- 2. Goals should be realistic and achievable.
- 3. The achievement of the goal should be verifiable.
- 4. You should designate a time when each goal will be achieved.

Goal setting on a dairy farm does not have to be a complex process. In many cases it provides a process for writing down and agreeing on goals that you have already given some thought to. It is also important to remember that once you write out your goals they are not cast in concrete. If a change takes place which has a major impact on the farm business, the goals should be reworked to accommodate that change. Refer to your goals as often as necessary to keep the farm business progressing.

It is important to identify both long and short range goals when looking at the future of your farm business.

A suggested format for writing out your goals is as follows:

- Begin with a general philosophy statement which incorporates both business and family goals.
- b. Identify 4-6 long range goals.
- c. Identify specific short range goals for a given time period (i.e., one year).

Worksheet for Setting Goals

I. General Philosophy and Objectives							

				Workshe	eet for	Settin	g Goals	s (continu	ed)	
II.	Long	Range	Goals	(requi	re two	or more	e years	to achiev	re)	
									·····	

III.	. Sh	ort Ra	nge Go	als (po	ssible	to ach	ieve in	one or tw	o years).	
What					How				When	
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NOTE: Once long and short range goals have been identified, it is helpful to rank them in order of priority.

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