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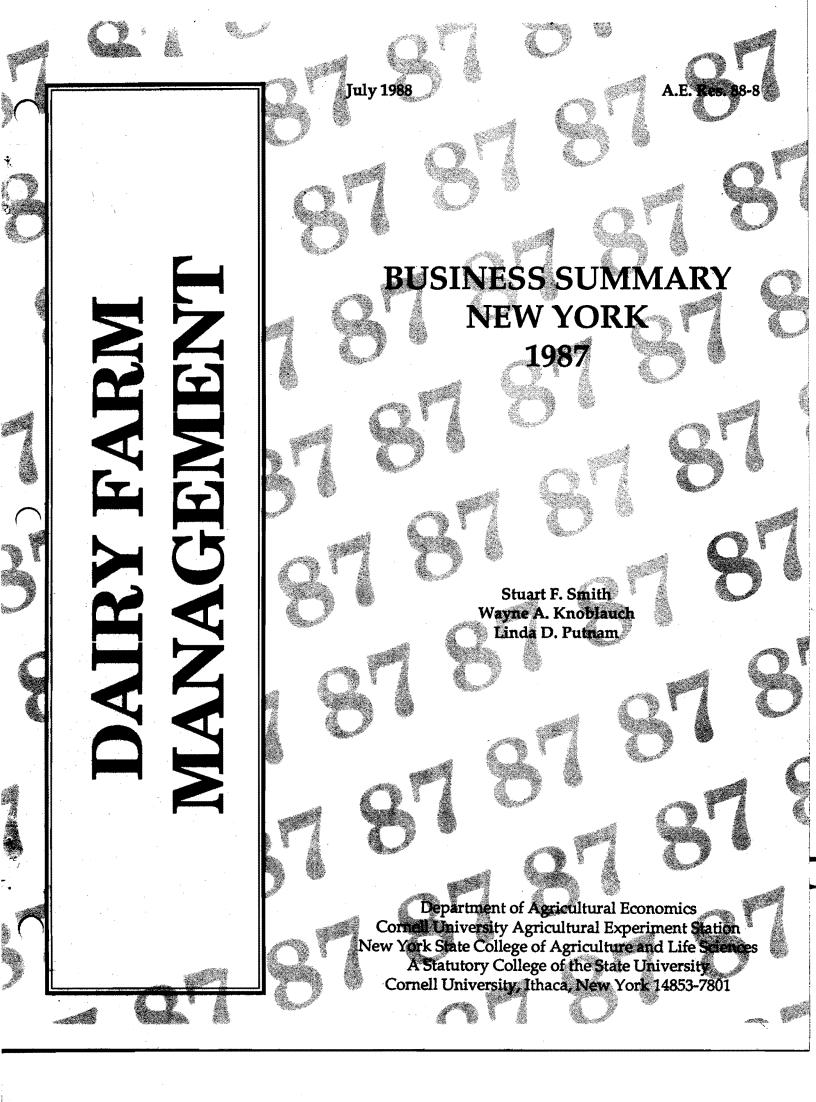
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ABSTRACT

This summary and analysis of 426 New York dairy farm businesses uses up to date methods of cash and accrual accounting to measure cash flow, farm profitability, and financial growth. Traditional methods of analyzing dairy farm businesses are combined with new evaluation techniques to show the relationship between good management performance and financial success. A comparison of data from 242 farms participating in 1985, 1986, and 1987 shows net farm income jumped 52 percent from 1985 to 1987, farm net worth increased 16 percent, average cow numbers were up 8 percent, milk output per cow increased 4 percent, and milk sold per worker equivalent increased 9 percent from 1985 to 1987.

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INTRODUCTION

Dairy farm business summary (DFBS) projects are an integral part of Cornell Cooperative Extension's agriculture program in New York State. The Department of Agricultural Economics of the New York State College of Agriculture and Life Sciences, and County Extension staff, cooperate in sponsoring DFBS projects. In 1987, more than 500 dairy farmers participated. Business records submitted by dairy farmers from 47 counties in the State provide the basis for continued Extension educational programs, data for applied research studies, and for use in the classroom. Regardless of the use of the data, confidentiality of individual farm data is maintained.

Cooperative Extension agents and specialists enroll the cooperators and collect the records. Each cooperator receives a detailed summary and analysis of his or her business. More than 70 percent of the agents and specialists are using a micro computer in their offices and/or on the farm to process and return the individual farm business reports for immediate use. Regional reports are prepared by Cornell faculty and used by DFBS cooperators and other farmers to compare their farm with regional averages. The DFBS program helps farmers develop managerial skills and solve business management problems.

Records from the nine regions of the State have been combined and the total data set analyzed as an applied research study of the effects of changes in price, technology, and management on dairy farm incomes (Figure 1, page 2). This research provides current farm business information for use by dairy farmers, Cooperative Extension staff, teachers, and others concerned with the New York dairy industry.

Farms Included

Data from 426 specialized dairy farms are included in the main body of this report. These farms do <u>NOT</u> represent the "average" for all dairy farms in the State. Participation was on a voluntary basis, therefore, not all areas or types of operations were equally represented (Figure 1, page 2). The 426 specialized dairy farms represent a cross section of better than average commercial dairy farm owner-operators in the State. Dairy farm renters, dairycash crop farmers with crop sales exceeding 10 percent of milk sales, and parttime dairy operators have been excluded from the main body of this report and summarized separately in the supplemental information section of the publication.

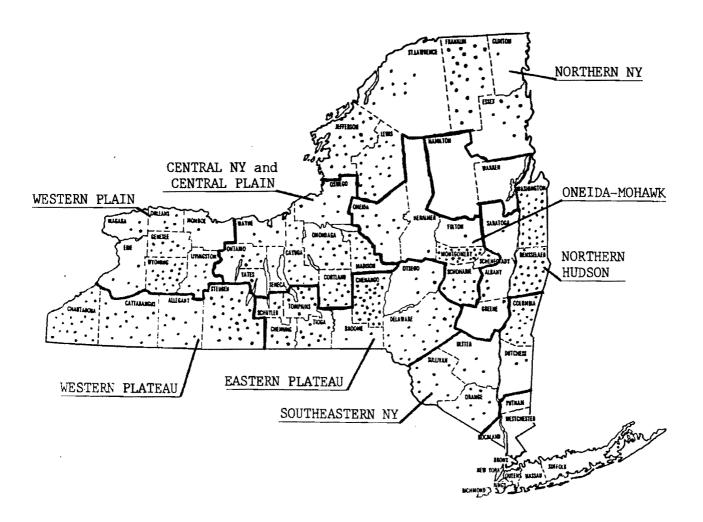
Features

Accrual accounting procedures have been used to provide the most accurate accounting of farm receipts and farm expenses for measuring farm profits. An explanation of these procedures is found on page 6. Four measures of farm profits are calculated on pages 9 through 11. The balance sheet and cash flow statement are featured on pages 12 through 16.

The dairy program analysis includes data on the costs of producing milk (pages 20-24) and separate farm business charts using data from freestall farms versus conventional stall dairy farms (pages 45-49).

Acknowledgements

The authors appreciate the outstanding assistance provided by the following staff members: Gregory Bogardo - programming, Joe Baldwin - artwork, Cindy Farrell - wordprocessing, and Beverly Carcelli - proofreading and distribution.



1987 Regional Summary Publications

Region	<u>Publications</u>	<u>Author(s)</u>
Western Plain Region	A.E. Ext. 88-4	Stuart F. Smith
0	A.E. Ext. 88-5	Eddy L. LaDue
Western Plateau Region	A.E. Ext. 88-7	George L. Casler
Northern Hudson Region	A.E. Ext. 88-8	Stuart F. Smith
Northern New York	A.E. Ext. 88-9	Stuart F. Smith & Linda D. Putnam
Eastern Plateau Region	A.E. Ext. 88-11	Robert A. Milligan & Linda D. Putnam
Central New York		
& Central Plain	A.E. Ext. 88-12	Wayne A. Knoblauch, Robert A. Milligan & Linda D. Putnam
Southeastern New York	A.E. Ext. 88-13	Stuart F. Smith

GROWTH AND PROGRESS ON NEW YORK DAIRY FARMS

One hundred and sixty-five farmers have participated in the dairy farm business summary for each of the years 1983 through 1987. Over this five year period, average herd size increased by 15 cows, or about 15 percent. Milk sold per farm increased by over 330,000 pounds or 22 percent. Milk per cow increased by six percent over this period and thus when combined with the increased herd size accounted for the increase in total milk output.

Cow numbers, milk sold per cow, and milk sold per farm grew at an increasing rate during the period. From 1983 to 1985 average cow numbers were up six percent, milk output per cow increased two percent, and milk sold per farm rose nine percent. From 1985 to 1987 cow numbers increased nine percent, milk per cow increased 3.4 percent, and milk output per farm jumped 12 percent.

Hay yields have been constant over the last five years on these farms. Corn silage yields, however, have shown a steady upward trend. Corn silage yields averaged 16.5 tons in 1987, up 21 percent from 1983 and 16 percent above the previous four year average.

These farms have shown steady improvement in labor efficiency since 1984. Milk output per worker increased 13 percent over the last three years following a slight decline in 1984. 1984 was the transition year between relatively high and stable milk prices of the early 1980's and falling milk prices and uncertainty that characterized the mid-1980's.

Purchased feed and crop expenses per hundredweight of milk have fluctuated due to input costs and purchased feed prices from a low of \$4.07 in 1985 to a high of \$4.62 in 1983.

The average operating costs of producing milk declined 10 percent and total costs per hundredweight dropped nine percent on these farms from 1983 to 1987. The average price received per hundredweight of milk sold fell from \$13.64 to \$12.93 or five percent over the same time period. The margin or difference between the total costs of producing milk and the average price received improved from \$-0.92 per hundredweight in 1983 to \$-0.38 per hundredweight in 1987.

Capital investments per cow have increased by almost 10 percent between 1983 and 1985 and flattened out in the last two years. Machinery and equipment investments per cow have edged slightly lower and real estate investments per cow have increased in 1987 following a decrease from 1984 to 1986. Capital turnover at 2.17 years in 1987 was at its lowest and healthiest point during this five year period.

Average profitability on these farms was the highest in 1987. Profitability was stable from 1983 to 1986, but increased significantly in 1987. Net farm income was about 60 percent higher in 1987 than the average of the previous four years.

Over this period net worth has exhibited a steady increase from \$323,857 in 1983 to \$448,028 in 1987. The debt to asset ratio has improved from 0.40 in 1983 to 0.34 in 1987. Farm debt per cow was also down in 1987. Debt per cow was \$2,156 in 1983 and \$2,012 in 1987.

In 1987, these 165 farms were larger, producing more milk, more profitable, and financially stronger than in any of the past four years. See the Appendix beginning on page 61 for a description of the economic environment facing New York dairy farmers.

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Table 1.COMPARISON OF FARM BUSINESS SUMMARIES FOR 1983-1987Same 165 New York Dairy Farms

Selected Factors	1983	1984	1985	1986	1987
<u>Size of Business</u>					
Average no. of cows	96	97	102	107	111
Average no. of heifers	81	85	86	87	88
-		1,537,052	1,635,584	1,741,059	1,833,455
Worker equivalent	3.12	3.22	3.34	3.32	3.39
Total tillable acres	294	302	314	317	322
Rates of Production					
Milk sold per cow, lbs.	15,654	15,830	15,987	16,283	16,535
Hay DM per acre, tons	2.7	2.8	2.8	2.8	2.8
Corn silage per acre, tons	13.6	13.9	14.8	14.4	16.5
Labor Efficiency					. .
Cows per worker	31	30	31	32	33
Milk sold per worker, 1bs.	480,481	477,091	490,378	523,826	540,778
<u>Cost Control</u>					
Grain & concentrate pur-					
chased as % milk sales	24%	23%	21%	23%	24୫
Dairy feed & crop expense					
per cwt. milk	\$4.62	\$4.53	\$4.02	\$3.91	\$4.09
Labor & mach. costs per co	•	\$830	\$824	\$793	\$827
Oper. cost of prod. cwt.mi	•	\$10.28	\$9.61	\$9.53	\$9.23
Total cost of prod. cwt.mi		\$14.67	\$13.94	\$13.72	\$13.31
Milk rec. per cwt. milk		\$13.48	\$12.93	\$12.71	\$12.93
-					
<u>Capital Efficiency</u>					
Farm capital per cow*	\$5,427	\$5,588	\$5,941	\$5,842	\$5,959
Machinery & equip. per cow	\$1,112	\$1,142	\$1,107	\$1,071	\$1,065
Real estate per cow	\$2,764	\$2,854	\$2,809	\$2,777	\$2,834
Livestock investment/cow	\$1,382	\$1,319	\$1,221	\$1,168	\$1,197
Capital turnover, years*	2.29	2.31	2.49	2.33	2.17
· · · · · · · · · · · · · · · · · · ·		_ •			
<u>Profitability</u>					
Net farm income w/o apprec	. \$25,446	\$22,343	\$26,544	\$27,478	\$40,879
Net farm income w/apprec.	\$27.676	\$31,773	\$24,975	\$43.876	\$66,535
Labor & management income	\$7,848	\$3,953	\$5,545	\$5,803	
Rate return on:	<i></i>	1-1	+-,	40,000	4-1,110
equity capital w/apprec.	1.4%	2.3%	0.3%	4.6%	9.4%
all capital w/apprec.	4.6%				
all capital w/apprec. all capital w/o apprec.					
are capitar w/o appret.	7.20	3.35	3.76	5.56	5.08
Financial Summary, End Yea	r				
Farm net worth	\$323,857	\$335,496	\$387,594	\$406,182	\$448,028
Change in net worth	·	- *		• -	
w/apprec.			\$142	\$18,813	\$40,465
Debt to asset ratio	0.40	0.39	0.36	0.36	
Farm debt per cow	\$2,156	\$2,199	\$2,100	\$2,071	\$2,012
	, _ , 2	,,			

*End year farm capital is used for 1983 and 1984, average farm capital is used for 1985-1987.

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SUMMARY AND ANALYSIS OF THE FARM BUSINESS

Business Characteristics and Resources Used

Recognition of important business characteristics and identification of the farm resources used is necessary for evaluating management performance. The combination of resources used and management practices employed is known as farm organization. Important farm business characteristics, the number of farms reporting these characteristics, and a listing of the average labor, land, and dairy cattle resources used in 1987 are presented in the following table.

Table 2.BUSINESS CHARACTERISTICS AND RESOURCES USED426 New York Dairy Farms, 1987

Type of Business	Number	Percent	Labor Force	<u>Average</u>	Percent
Sole Proprietorship		66	Operators	15.9 mo.	
Partnership	120	28	Family	5.1 mo.	13
Corporation	24	6	Family unpaid	2.4 mo.	6
			Hired	<u>14.9 mo.</u>	
			Total Months	38.3	100
<u>Barn Type</u>					
Stanchion	240	56			erage
Freestall	158	37	<u>Operators</u> (total =	564)	1.32
Combination	28	7	Age		43
			Education	13	yrs.
<u>Milking System</u>			Estimated Value of		
Bucket & Carry	3	1	Labor & Managemen	nt \$2	5,552
Dumping Station	31	7	-		
Pipeline	226	53			
Herringbone	147	35			
Other Parlor	19	4		Farms R	eporting
			Land Used	Number	Average
<u>Business Records</u>	<u>Number</u>	<u>Percent</u>	Total acres:		
Account Book	183	43	Owned	426	353
Agrifax (mail in)	76	18	Rented	366	280
ELFAC	36	8	Tillable acres:		
On-Farm Computer	47	11	Owned	426	200
Other	84	20	Rented	360	125
			Total	426	305
<u>Dairy Records</u>	Number	<u>Percent</u>	Number of		
D.H.I.C.	316	74	Dairy Livestock	Cows	Heifers
Owner Sampler	52	12	Beginning of Year	100	80
Other	23	6	End of Year	103	81
None	35	8	Average for Year	101	79

The sole proprietorship, conventional stall barn, pipeline milking system, farm business account book, and DHIC record system continue to prevail as the most common business characteristics of dairy farms.

There were 564 full-time operator equivalents on the 426 dairy farms for an average of 1.32 operators per farm. The operators averaged 43 years of age and 13 years of formal education. Additional data on the labor force is in Table 35. All 426 farm businesses included in the regular dairy summary own farm real estate. Dairy farm renters are summarized separately later in this publication. However, 360 of the dairy farm owners rented an average of 125 acres of tillable land in 1987. The 426 farms averaged 305 total tillable acres per farm of which 105 acres were rented. Tables 17 and 23 contain additional information on land use and the dairy herd.

Accounting Procedures

Accrual accounting is used for measuring farm profitability. It expresses value of production and cost of production for the year, regardless of whether cash was received or expended. Accrual is a more accurate method than cash accounting when examining the profitability of a business in a particular year. Cash expenses and cash receipts are used when evaluating the cash flow position of the business.

The accrual accounting system considers changes in accounts payable and receivable, prepaid expenses, and changes in inventory of not only such items as crops and livestock, but also the inventory of production items such as fertilizer, seed, and fuel. In this manner, the total costs of production and the total value of production are obtained to provide an accurate representation of profitability in that year.

Accrual accounting is complimented by accounting procedures used to separate changes in inventory into changes caused by price and those caused by quality or quantity changes. Separating price changes (appreciation) from physical changes in the farm inventory are important in determining farm profitability. Appreciation of farm assets are included in the return to farm capital, but excluded from the return to labor and management.

Income Statement

The accrual income statement on the following page begins with an accounting of all farm business expenses. Farm business expenditures are grouped into seven major categories.

Hired labor includes gross wages plus the farm share of social security, worker's compensation insurance, health insurance, and other employee benefits paid by the farm employer.

Feed expenses are divided into purchased dairy grain and concentrate, purchased dairy roughage, and all feed purchased for other livestock to allow more thorough analysis of dairy herd feeding costs. The costs of growing grain and roughage are not included in cash and accrual feed expenses.

Machinery costs represent all the operating costs of using power machinery on the farm. Ownership costs are excluded here but are included in the analysis of machinery costs.

Livestock expenses include the cost of supplies and services directly associated with the care and maintenance of the dairy herd, plus milk marketing costs. The purchase of replacement cattle is considered a herd maintenance expense while expansion livestock is not.

Crop expenses include the costs of fertilizer, lime, seeds, pesticides, and other crop supplies.

Real estate expenses are the direct costs associated with owning and maintaining farmland and buildings.

Other includes the farm share of utilities, interest paid on all farm indebtedness, and miscellaneous costs. Total operating expenses exclude expansion livestock and machinery and building depreciation. These nonoperating costs are included in total expenses. Depreciation charges are based on income tax figures.

<u>Cash and accrual farm expenses</u> are summarized below. Total operating accrual expenses for the 426 farms averaged \$516 per day and 76 percent of total farm accrual receipts.

Table 3.

CASH AND ACCRUAL FARM EXPENSES 426 New York Dairy Farms, 1987

Evocado Itom	Cash Paid +	Change in Inventory or Prepaid	Change in Accounts Payable	Accrual Expenses	Percent
Expense Item		Expense +			
	24,585	\$-3	\$ -60	\$ 24,522	13
Feed				61 0/0	
Dairy grain & conc.	52,067	-868	-156	51,043	27
Dairy roughage	1,842	161	-100	1,903	1
Other livestock	816	37	4	857	<1
Machinery					-
Mach. hire, rent/lease	2,355	0	18	2,373	1
Machinery repairs/parts	12,089	-19	71	12,141	6
Auto expense (farm share)		0	9	677	<1
Fuel, oil & grease	5,704	26	14	5,744	3
<u>Livestock</u>					
Replacement livestock	2,141	0	0	2,141	1
Breeding	3,139	-36	- 3	3,100	2
Vet & medicine	4,577	-9	31	4,599	2
Milk marketing	12,208	0	-13	12,195	6
Cattle lease/rent	131	0	-1	130	<1
Other livestock expense	8,658	- 33	-51	8,574	5
Crops					
Fertilizer & lime	8,523	-213	-71	8,239	4
Seeds & plants	3,509	- 58	-9	3,442	2
Spray, other crop exp.	3,252	-146	50	3,156	2
<u>Real Estate</u>	•			· •	
Land/bldg./fence repair	3,314	-24	4	3,294	2
Taxes	5,687	-6	23	5,704	3
Insurance	3,630	-14	5	3,621	2
Rent & lease	4,235	-15	-20	4,200	2
Other	,			.,	
Telephone (farm share)	726	0	-1	725	<1
Electricity (farm share)	5,589	0	-3	5,586	3
Interest paid	17,104	0	28	17,132	9
Miscellaneous	3,209	20	8	3,237	2
	5189,758	\$-1,200	\$-223	\$188,335	100
	5 1,710	\$ 0	\$ 0	\$ 1,710	100
Machinery depreciation	; / 20	T V	ΥŸ	15,488	
Building depreciation				<u> </u>	
· · ·				~	
TOTAL ACCRUAL EXPENSES				\$213,626	

<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> represents feeds and supplies purchased in a prior year and used this year (positive change), and inputs purchased this year but not used (negative change).

<u>Prepaid expenses</u> are advance payments made for services and noninventory items. For example, advance payments for rent increased an average of \$15 per farm in 1987, and that increase is subtracted from cash rent to determine the correct 1987 accrual rental expense.

.....

<u>Changes in accounts payable</u> reflect supplies/services used in this year's production but not paid for (positive change), and payments for production inputs used in a prior year (negative change).

<u>Accrual expenses</u> are cash expenses adjusted for changes in inventory, prepaid expenses, and accounts payable. They are the total costs of inputs actually used in this year's business.

<u>Cash and accrual farm receipts</u> are presented in the following table. Total cash receipts averaged \$242,431 per farm. Total accrual receipts averaged \$248,818 per farm. Accrual receipts were greater than cash receipts due to dairy herd growth and increases in crop inventory. Cow numbers increased an average of three head per farm and the homegrown feed inventory increased \$26 per cow.

Table 4.CASH AND ACCRUAL FARM RECEIPTS426 New York Dairy Farms, 1987								
Receipt Item	Cash Receipts	+	Change in Inventory	+	Change in Accounts Receivable	2026	Accrual Receipts	Percent
Milk sales	\$212,288				\$337		\$212,625	85
Dairy cattle	15,091		\$3,301		81		18,472	7
Dairy calves	3,347				0		3,347	1
Other livestock	430		123		12		565	<1
Crops	2,118		2,702		1		4,821	2
Government receipts	5,729		-113*		61		5,678	2
Custom machine work	284				-22		262	<1
Gas tax refund	268				2		269	<1
Other	2,877				36		2,913	1
- Nonfarm noncash	·							
capital**		((-) <u>135</u>			(-	/	
Total	\$242,431		\$5,878		\$507		\$248,818	100

*Change in advanced government receipts.

**Gifts or inheritances of cattle or crops included in inventory.

<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.

Accrual receipts represent the value of all farm commodities produced and services actually provided by the farmer during the year. Increases in livestock inventory caused by herd growth and/or quality, are included. Decreases in inventory caused by herd reduction are deducted. Changes in inventories of crops grown are accounted for. Changes in advanced government receipts are the amount government payments received for participating in a future year's program have changed from 1986 to 1987. An increase requires a negative adjustment to cash receipts and a decrease a positive adjustment. Nonfarm noncash capital are gifts and inheritances of cattle and crops received by the farm owner/operator, and included in inventory or used in the business during the year. They are deducted from growth in inventory and reduce accrual receipts because they came from outside the farm business. Gift and inheritances of machinery and real estate are accounted for in Table 12. Changes in accounts receivable include the difference between the January milk check for this December's marketings and the previous January's check, and other delayed payments.

Profitability Analysis

Farm owners/operators contribute labor, management, and capital to their businesses. 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 farm 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.

Table 5.

NET FARM INCOME 426 New York Dairy Farms, 1987

Item	Average 426 Farms	Average Top 10% Farms*
	420 Farms	IUt Falms*
Total accrual receipts	\$248,818	\$698,520
+ Appreciation: Livestock	6,779	10,316
Machinery	3,936	5,658
Real Estate	11,726	22,210
Other Stock/Cert.	414	1,183
- Total including appreciation	\$271,673	\$737,887
- Total accrual expenses	213,626	561,556
- Net Farm Income (with appreciation)	\$ 58,047	\$176,331
Net Farm Income (without appreciation)	\$ 35,192	\$136,964

*Average of 42 farms with highest net farm incomes (without appreciation).

<u>Return to operator(s') labor, management, and equity capital</u> 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.

Table 6.RETURN TO OPERATOR(S') LABOR, MANAGEMENT, AND EQUITY426 New York Dairy Farms, 1987

	Average 4	26 Farms	Average Top 10% Farm		
Item	With Apprec.	Without Apprec.	With Apprec.	Without Apprec.	
Net farm income	\$58,047	\$35,192	\$176,331	\$136,964	
- Family labor unpaid @ \$650 per month	1,582		743	743	
- Return to Operator(s') Labor, Management, & Equity	\$56,465	\$33,610	\$175,588	\$136,221	

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 one fulltime operator's labor and management. A full-time operator provides 12 months of labor and management.

Table 7.	LABOR AND MANAGEMENT INCOME
,	426 New York Dairy Farms, 1987

Item	Average 426 Farms		Average Top 10% Farms
Return to operator(s') labor, management, & equity without appreciation	\$33,610		\$136,221
- Real interest @ 5% on \$380,697 equity capital for average & \$922,060 for the top 10%	<u>19,035</u>		46,103
- Labor & Management Income (1.32 operators)	\$14,575	(1.76)	\$ 90,118
Labor & Management Income per Operator	\$11,042		\$51,204

Labor and management income per operator averaged \$11,042 on these 426 dairy farms in 1987. The range in labor and management income per operator was from less than -\$50,000 to more than \$60,000. Returns to labor and management were negative on 31 percent of the farms. Labor and management income per operator ranged from \$0 to \$19,999 on 37 percent of the farms while 32 percent showed labor and management incomes of \$20,000 or more per operator.

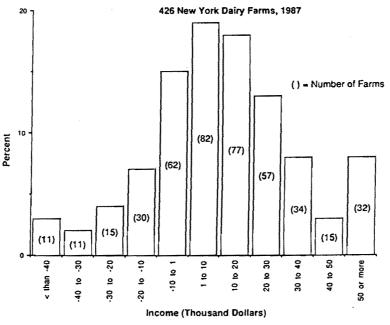


Chart 1. DISTRIBUTION OF LABOR AND MANAGEMENT INCOMES PER OPERATOR

<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 owneroperator'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 average farm net worth or equity capital. <u>Return on total capital</u> is calculated by adding interest paid to the return on equity capital and then dividing by average farm assets to calculate the rate of return on total capital.

RETURN ON EQUITY CAPITAL 426 New York Dairy Farms, 1987

Item	Average 426 Farms	Average Top 10% Farms
ICem	420 Faims	108 Farms
Return to operators' labor, management,		
& equity capital with appreciation	\$56,465	\$175,588
- Value of operators' labor & management	25,552	42,510
- Return on equity capital with appreciation	\$30,913	\$133,078
+ Interest paid	\$17,132	\$38,550
- Return on total capital with appreciation	\$48,045	\$171,628
Return on equity capital without appreciation	\$ 8,058	\$ 93,711
Return on total capital without appreciation	\$25,190	\$132,261
Rate of return on average equity capital:		
with appreciation	8.1%	14.48
without appreciation	2.1%	10.2%
Rate of return on average total capital:		
with appreciation	8.1%	12.3%
without appreciation	4.28	9.5%

Returns Per Unit of Input

Income from a business can also be calculated in relation to various input units. For example, the labor and management return can be allocated to the entire labor force and figured on a per worker basis.

Table 9.

Table 8.

RETURNS TO ALL LABOR AND MANAGEMENT 426 New York Dairy Farms, 1987

Item	Average
Labor & management income per farm	\$14,575
+ Cost of hired labor	24,522
+ Value of unpaid family labor	1,582
- Total Returns to All Labor & Management	\$40,679
Average worker equivalent	3.19
Returns per worker equivalent	\$12,752
Returns per hour (3,000 hours/worker/year)	\$4.25

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 inventory all the assets, determine all the liabilities, and fill out the balance sheet. The second step is to analyze the completed balance sheet by evaluating the relationships between assets and liabilities and changes made during the year.

Table 10.	1987	FARM	BUSINESS	AND NONFARM	BALANCE S	SHEET
		426	New York	Dairy Farms	, 1987	

			Farm Liabilities		
Farm Assets	Jan. 1	Dec. 31	& N <u>et Worth</u>	Jan. 1	Dec. 31
Current			Current		
Farm cash, checki	ng		Accounts payable	\$ 5,609	\$ 5,267
& savings	Š\$ 4,668	\$ 5,992	Operating debt	3,711	4,304
Accounts rec.	18,370	18,879	Short-term	3,987	3,319
Prepaid expenses	73	111	Advanced Govt. Re	c. <u>9</u>	122
Feed & supplies	43,628	47,493	Total	\$13,316	\$13,012
Total	\$66,739	\$72,475			
<u>Intermediate</u>			<u>Intermediate</u>		
Dairy cows:			Structured debt		
owned	\$ 82,525	\$ 89,791	1-10 years	\$76,096	\$76,901
leased	217	207	Financial lease		
Heifers	33,864	36,628	(cattle/mach.)	1,207	1,306
Bulls/other lvstk	. 920	1,095	FLB & PCA stock	4,938	4,980
Mach./eq. owned		108,157	Total	\$82,241	\$83,187
Mach./eq. leased	990	1,099			
FLB & PCA stock	4,938	4,980	Long-Term		
Other stock & cer		8,147	Structured debt		
Total	\$234,111	\$250,104	≥10 years	\$118,303	\$115,538
<u>Long-Term</u>			Financial lease		
Land/buildings:			(structures)	1,363	1,073
owned	\$276,196	\$287,367	Total	\$119,665	\$116,611
leased	1,363	1,073			. ,
Total	\$277,559	\$288,440	Total Farm Liab.	\$215,223	\$212,810
				-	
Total Farm Assets	\$578,408	\$611,019	FARM NET WORTH	\$363,186	\$398,209
			Nonfarm Liabiliti	es*	
<u>Nonfarm Assets*</u>	<u>Jan. 1</u>	Dec. 31	& Net Worth	<u>Jan. 1</u>	<u>Dec. 31</u>
Personal cash, ch	ikg.		Nonfarm Liab.	\$2,149	\$2,073
& savings	•	\$ 7,784	NONFARM NET WORTH	• •	\$57,958
Cash value life i		4,053	1	<u> </u>	<u> </u>
Nonfarm real esta		28,052	FARM & NONFARM*	Jan. 1	Dec. 31
Auto (personal sh		2,902	Total Assets	\$628,321	\$671,050
Stocks & bonds	3,924	4,407	Total Liabilities		214,883
Household furn.	7,431	7,759			
All other	4,185	5,075	TOTAL FARM & NON-		
Total Nonfarm	\$49,913	\$60,031	FARM NET WORTH	\$410,949	\$456,167
			onfarm balance shee		

*Average of 259 farms completing the nonfarm balance sheet.

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. The balance sheet analysis continues by examining financial and debt ratios and factors measuring levels of debt. Percent equity is calculated by dividing net worth by assets. Equity increases as the value of assets increase more than liabilities. The debt to asset ratio is compiled by dividing liabilities by assets. Low debt to asset ratios reflect strength in solvency and the potential capacity to borrow. The debt analysis ratios show how well the debt is structured and managed. Debt levels per unit of production include some old standards that are still useful if used with measures of cash flow and repayment ability. Fourteen farms reported no farm liabilities.

Table 11.		BAL	NCE	SHEET	ANALYSIS	S
	426	New	York	Dairy	Farms,	1987

Item		verage 5 Farms		ge Top Farms
Farm Financial Ratios:				
Percent equity		65%		68%
Debt/asset ratio: total	(0.35	0.	32
long-t	erm (0.40	0.	35
•		0.30	0.	
Change in Net Worth:				
Without appreciation	\$12	,168	\$74,2	91
With appreciation	•	,023	\$113,6	
Farm Debt Analysis:	•	•	. ,	
Accts. payable as % of t	otal debt	2%		1%
Long-term liab. as % of		55%		49%
Current & int. liab. as		45%		51%
		Per Tillable	2	Per Tillable
Farm Debt Levels:	Per Con	w Acre Owned	Per Cow	
Total farm debt	\$2,046		\$1,797	
Long-term debt	1,121	• •	886	565
Intermediate & current	•		911	581

The <u>Farm Inventory Balance</u> accounts for the changes in the values of major farm assets from the beginning to the end of the year.

FARM INVENTORY BALANCE 426 New York Dairy Farms, 1987

Table 12.

Item	Real I	Estate	Machiner	<u>y/Equip.</u>	Livestock
Value beg. of year		\$276,196		\$103,088	\$117,309
Purchases	\$11,488*	-	\$17,124		
+ Nonfarm noncash transfer**	43		74		
- Lost capital	2,360				
- Sales	1,275		576		
- Depreciation	8,093		15,488		
- Net investment		-197		1,134	3,425
+ Appreciation		<u>11,369</u> ***		3,936	6,779
Value end of year		\$287,367		\$108,157	\$127,513

*\$2,985 land and \$8,503 buildings and/or depreciable improvements.

**Gifts and inheritances of property transferred into the farm business from outside.

***Excludes \$357 of appreciation on assets sold during the year.

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. Cash inflows include all the cash farm receipts, receipts from the sale of farm assets, additional funds borrowed, cash used in the business from the sale of nonfarm capital, 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. The positive imbalance of \$2,513 indicates that on average, farms had more inflows than were accounted for by outflows.

Table 13.

ANNUAL CASH FLOW STATEMENT 426 New York Dairy Farms, 1987

	Average	Average Top
Item	426 Farms	10% Farms
Cash Inflows		
Beginning farm cash, checking & savings	\$ 4,668	\$ 8,095
Cash farm receipts	242,431	664,154
Sale of assets: Machinery	576	1,214
Real estate	1,254	1,879
Other stock & certificates	780	2,090
Money borrowed (intermediate & long-term)	30,912	80,152
Money borrowed (short-term)	2,428	9,582
Increase in operating debt	592	6,062
Nonfarm income	4,514	2,189
Cash from nonfarm capital used in business	1,534	219
Money borrowed - nonfarm	291	40
Total	\$289,981	\$775,676
Cash Outflows		
Cash farm expenses	\$189,757	\$512,936
Capital purchases: Expansion livestock	1,710	6,137
Machinery	17,124	39,701
Real estate	11,488	45,439
Other stock & certificates	944	4,301
Principal payments (intermediate & long-term)	32,872	81,143
Principal payments (short-term)	3,096	14,803
Decrease in operating debt	5,090	14,805
Nonfarm debt payments	432	360
Personal withdrawals & family expenditures	24,053	49,715
Ending farm cash, checking & savings	-	15,134
Total	5,992	
IOLAL	\$287,468	\$769, 6 70
Imbalance (error)	\$ 2,513	\$ 6,006

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ANNUAL CASH FLOW BUDGETING DATA 426 New York Dairy Farms, 1987

			p 10% Farms
<u> </u>	Per Cow	Total	Per Cow
101		250	
\$212,625	\$2,107	\$578,773	\$2,312
	183		225
	33	-	34
-			5
•			97
			118
\$248,953	\$2,467	\$698,656	\$2,791
\$ 24 522	\$ 243	\$ 87 216	\$ 348
			545
•			28
•		•	4
•		•	20
			120
•			53
			12
			32
			54
12,195	. 121	31,373	125
130	1	289	1
8,574	85	20,673	83
8,239	82	19,261	77
3,442	34	9,348	37
3,156	31	10,046	40
	33		44
			47
			29
			52
			54
			31
			\$1,836
	Q1,077	Q439,700	Q1,050
	6771	6020 057	0055
		-	\$955
		-	131
			7
			- 39
			<u>-19</u>
\$69,914	\$693	\$189,954	\$759
19.248	191	47 486	_190
			
\$50,666	\$502	\$142,468	\$569
			555
	\$-23		\$ 14
	,		,
31,266	310	95,578	382
	101 \$212,625 18,473 3,347 565 4,821 <u>9,122</u> \$248,953 \$ 24,522 51,043 1,903 857 2,373 100 4,599 12,195 130 8,574 2,141 3,100 4,599 12,195 130 8,574 8,239 3,442 3,156 3,294 5,704 3,621 4,200 6,310 <u>3,237</u> \$171,203 \$ \$77,750 Inv. 5,878 507 -1,201 * <u>569,914</u> <u>19,248</u>	101 $\$212,625$ $\$2,107$ $18,473$ 183 $3,347$ 33 565 6 $4,821$ 48 $9,122$ 90 $\$248,953$ $\$2,467$ $\$24,522$ $$243$ $$1,043$ 506 $1,903$ 19 857 8 $2,373$ 23 $1c0$ $12,818$ $2,373$ 23 $1c0$ $12,818$ $2,744$ 57 $2,141$ 21 $3,100$ 31 $4,599$ 46 $12,195$ 121 130 1 $8,574$ 85 $8,239$ 82 $3,442$ 34 $3,156$ 31 c $3,294$ 33 $5,704$ 56 $3,621$ 36 $4,200$ 42 $6,310$ 63 $3,237$ $$171,203$ $$171,203$ $$1,697$ $$2$ $$2,77,750$ $$771$ $$100$ $$2,250$ $$2,250$ $$2,969$ $$2,2303$ $$2,2303$	101250 $\$212, 625$ $\$2, 107$ $\$578, 773$ $18, 473$ 183 $56, 213$ $3, 347$ 33 $8, 472$ 565 6 $1, 230$ $4, 821$ 48 $24, 394$ $9, 122$ 90 $29, 574$ $\$248, 953$ $\$2, 467$ $\$698, 656$ $\$24, 522$ $\$2467$ $\$698, 656$ $\$24, 522$ $\$2467$ $\$698, 656$ $\$24, 522$ $\$243$ $\$87, 216$ $$51, 043$ 506 $136, 485$ $1, 903$ 19 $7, 119$ 857 8 939 $2, 373$ 23 $4, 938$ $1to$ $12, 818$ 127 $30, 040$ $5, 744$ 57 $5, 744$ 57 $13, 312$ $2, 141$ 21 $2, 967$ $3, 100$ 31 $8, 018$ $4, 599$ 46 $13, 573$ $12, 195$ 121 $31, 373$ 130 1 289 $8, 574$ 85 $20, 673$ $8, 239$ 82 $19, 261$ $3, 442$ 34 $9, 348$ $3, 156$ 31 $10, 046$ c $3, 237$ 32 $7, 704$ 56 $11, 671$ $3, 621$ 36 $7, 212$ $4, 200$ 42 $13, 108$ $6, 310$ 63 $13, 436$ $3, 237$ 32 $7, 658$ $\$171, 203$ $\$1, 697$ $$459, 700$ 2 $-3, -4, 799$ $-9, 838$ 54 -250 -3 </td

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*Excludes change in interest account payable.

Repayment Analysis

Table 15.

The second step in 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 a farm's repayment position by using debt payments per unit of production and receipt/debt payment ratios. The data presented below are for the 332 farms that completed Dairy Farm Business Summaries for both 1986 and 1987.

FARM DEBT PAYMENTS PLANNED

	Ne	w York Dai	ry Farms, 1	.987		
······································	Same 3	32 Dairy F	arms	Avera	ge Top 10%	Farms
	<u>1987 Pay</u>	ments_	Planned	1987 Par	ments	Planned
Debt Payments	Planned	Made	1988	Planned	Made	1988
Long-term	\$13,966	\$17,492	\$15,181	\$27,602	\$37,140	\$39,482
Intermediate-term	22,300	33,568	23,820	53,851	95,427	67,037
Short-term	2,138	3,525	2,237	6,342	18,410	8,494
Operating (net						
reduction)	865	0	647	1,449	0	1,549
Accounts payable						-
(net reduction)	925	601	747	3,407	9,024	1,310
Total	\$40,194	\$55,186	\$42,633	\$92,651	\$160,000	\$117,872
Per cow	\$395	\$542		\$326	\$563	
Per cwt. 1987 milk	\$2.39	\$3.29		\$1.79	\$3.09	
Percent of total						
1987 receipts	16%	22%		11%	20%	
Percent of 1987						
milk receipts	19%	25%		14%	24%	

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 last year's planned payments that could have been made with last year's available cash flow.

Table 16.

CASH FLOW COVERAGE RATIO New York Dairy Farms, 1987

Item	Same 332 Dairy Farms	Average Top 10% Farms
Cash farm receipts	\$248,854	\$762,440
- Cash farm expenses	192,364	589,658
+ Interest paid	16,876	44,056
- Net personal withdrawals from farm*	20,135	50,518
(A) = Amount Available for Debt Service	\$53,231	\$166,320
(B) - Debt Payments Planned for 1987	\$40,194	\$92,651
(A + B) - Cash Flow Coverage Ratio for 1987	1.32	1.80

*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.

Cropping Program Analysis

Table 18.

The cropping program is an important part of the dairy farm business that sometimes 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 purchase choices.

Table 17.	le 17. LAND RESOURCES AND CROP PRODUCTION 426 New York Dairy Farms, 1987						
Ttom	Average 426 Farms Average Top 10% Farms						
Item		420	raims		Aver	age Top	TOP LATER
Land	<u>Own</u>	ed Re	ented	<u>Total</u>	Owned	<u>Rente</u>	<u>d Total</u>
Tillable	20	0 1	L05	305	406	236	641
Nontillable	5	0	13	64	51	10	61
Other nontillable	<u>10</u>	3		<u>110</u>	<u>156</u>	7	<u>162</u>
Total	35	3 3	125	479	613	253	864
Crop Yields	Farms	<u>Acres</u>	<u>Prod/</u>	<u>Acre</u>	<u>Farms</u>	<u>Acres</u>	Prod/Acre
Hay crop	422	154	2.7	tn DM	42	239	3.2 tn DM
Corn silage	394	72	16.2	tn	41	190	17.2 tn
-			5.5	tn DM			5.8 tn DM
Other forage	. 36	25	2.0	tn DM	3	68	1.4 tn DM
Total forage	424	223	3.6	tn DM	42	429	4.3 tn DM
Corn grain	251	72	113.6	bu	36	140	122.3 bu
Oats	101	29	55.8	bu	10	28	61.3 bu
Wheat	27	30	47.2	bu	8	38	46.6 bu
Other crops	58	27			11	46	
Tillable pasture	130	34			10	55	
Idle	176	44			27	83	
Total Tillable Acres	426	305			42	641	

Crop acres and yields compiled for the average represent only the number of farms reporting each crop. All but four of the 426 farms produced hay or hay crop silage in 1987. Ninety-two percent produced corn silage, 59 percent grew and harvested corn grain, and 24 percent grew oats for grain. 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.

The following measures of crop management indicate how efficiently the land resource is being used and how well total forage requirements are being met.

426 New York Dairy Farms, 1987					
Item	Average 426 Farms	Average Top 10% Farms			
Total tillable acres per cow	3.03	2,56			
Total forage acres per cow	2.20	1.71			
Harvested forage dry matter, tons per cow	7.80	7.35			

CROP MANAGEMENT FACTORS 426 New York Dairy Farms, 198

In the third year of collecting information on individual crop production costs, over 270 cooperators allocated direct crop related expenses to hay crop, corn, and other crop production. The data in Table 19 has been compiled to show the average crop related production expenses per acre and per unit for these crops. Note that labor and machinery costs have not been included. Total corn expenses are allocated to corn silage and corn grain based on the proportion of acres in each crop. In Table 19, the total per tillable acre represents all 426 farms and the expenses for individual crops are for the 274 farms which submitted data.

· ·	Average 426 Farms	Average	274 Farms	Reporting	Individual	Crop Costs
	Total			A11	Corn	Corn
	Per	Hay (Crop	Corn	Silage	Grain
	Tillable	Per	Per	Per	Per Ton	Per Dry
Expense	Acre	Acre	<u>Ton DM</u>	Acre	DM	Shell Bu.
Fertilizer & lime	\$26.99	\$12.13	\$4.49	\$29.58	\$ 5.34	\$0.26
Seeds & plants	11.28	4.90	1.82	12.85	2.32	0.11
Spray & other crop						
expense	10.34	2.70	1.00	<u>13.98</u>	2.53	0.12
Total	\$48.61	\$19.73	\$7.31	\$56.41	\$10.19	<u>0.12</u> \$0.49
			Ave	rage Top 24	4 Farms	
Average Top 10% Far	<u>ms</u> :		Reportin	g Individua	al Crop Cos	ts
Fertilizer & lime	\$30.03	\$14.30	\$4.52	\$27.48	\$4.72	\$0.22
	14.58	6.74	2.13	12.36	2.12	0.10
Seeds & plants Spray & other crop	14,30	0.74	2.13	12.30	2.12	0.10
expense	15.66	3,99	1.26	13,28	2,28	0.11
Total	\$60.27	\$25.03	\$7.91	\$53.12	\$9.12	\$0.43

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. Machinery costs have not been allocated to individual crops, but they are calculated per total tillable acre.

426	New York Dai	ry Farms, 198	7	
	Average 4	26 Farms	Average To	p 10% Farms
Machinery	Total	Per Til.	Total	Per Til.
Expense Item	Expenses	Acre	Expenses	Acre
Fuel, oil & grease	\$ 5,744	\$ 18.82	\$13,312	\$ 20.76
Machinery repairs & parts	12,141	39.78	29,093	45.36
Machine hire, rent & lease	2,373	7.77	4,939	7.70
Auto expense (farm share)	677	2.22	947	1.48
Interest (5%)	5,281	17.30	10,899	16.99
Depreciation	15,488	50,74	35,125	54,77
Total	\$41,704	\$136.63	\$94,315	\$147.07

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ACCRUAL MACHINERY EXPENSES

Table 19.

CROP RELATED ACCRUAL EXPENSES New York Dairy Farms, 1987

Table 20.

	Tons	of Hay Crop	Dry Matter H	er Acre	
Item	<2,0	2,0-2.4	2.5-2.9	3.0-3.4	≥3.5
Hay crop, tons DM/acre	1.6	2.3	2.7	3.2	4.2
Farms reporting crop					
expense breakdowns	62	56	56	49	51
Average number hay crop					
acres for farms reporting	154	142	153	133	166
Accrual Crop Expense					
Per Acre of Hay Crop:					
Fertilizer & lime	\$ 8.30	\$10.15	\$11.22	\$17.22	\$15.98
Seeds & plants	3.39	3.88	4.81	5.52	7.58
Spray & other crop expense	1.17	1.42	2.95	<u>3.71</u>	<u> 5.03</u>
Total	\$12.86	\$15.45	\$18.98	\$26.45	\$28.59
<u>Accrual Crop Expense</u>					
Per Ton DM of Hay Crop:					
Fertilizer & lime	\$5.20	\$4.47	\$4.12	\$5.41	\$3.82
Seeds & plants	2.12	1.71	1.77	1.73	1.81
Spray & other crop expense	0.73	0.63	1.08	1.16	1.20
Total	\$8.05	\$6.81	\$6.98	\$8.30	\$6.83

Table 21. CROP RELATED ACCRUAL EXPENSES BY HAY CROP PRODUCTION PER ACRE274 New York Dairy Farms, 1987

Table 22. CROP RELATED ACCRUAL EXPENSES BY CORN PRODUCTION PER ACRE271 New York Dairy Farms, 1987

				Dry Sl	nell Bush	els of
	<u>Tons</u> C	<u>orn Sila</u>	<u>ige/Acre</u>	<u>Corn</u>	Acre	
Item	0-14	15-19	≥20	0-87	<u>88-11</u> 2	≥113
Corn yield per acre	12.1	17.1	22.0	71.5	100.7	134.7
Farms reporting crop						
expense breakdowns	107	120	44	140	51	80
Average number corn acres						
for farms reporting	81	132	131	76	139	158
Accrual Crop Exp./Acre of Corn						
Fertilizer & lime	\$25.66	\$28.64	\$39.88	\$26.23	\$27.92	\$33.80
Seeds & plants	11.61	12.91	15.01	12.75	11.61	13.76
Spray & other crop expense	12.50	13.80	17.30	11.84	12.91	16.67
Total	\$49.77	\$55.35	\$72.19	\$50.82	\$52.44	\$64.23
				Dry S	Shell Bus	hel
Accrual Crop Expense Per:*	Ton DM	of Corn	Silage	of	Corn Gra	in
Fertilizer & lime	\$ 6.01	\$4.93	\$5.44	\$0.37	\$0.28	\$0.25
Seeds & plants	2.72	2.22	2.05	0.18	0.12	0.10
Spray & other crop expense	2.93	2.37	2.36	0.17	0.13	0,12
Total	\$11.66	\$9.52	\$9.85	\$0.72	\$0.53	\$0.47

*Total corn expenses are allocated to corn silage and corn grain based on the proportion of acres in each crop.

From the above two tables, it is important to observe that as forage yields per acre increase, crop related expenses per acre also increase. For corn silage and corn grain, crop expense per ton of dry matter and per bushel generally decreased as yield per acre increased. However, hay crop expenses per ton of dry matter remained fairly constant except for the very low yields and the farms reporting yields of 3.0 to 3.4 tons of dry matter per acre. The higher costs on this group of 49 farms can be attributed to significantly higher fertilizer and lime expenses.

Dairy Program Analysis

Table 23.

An analysis of the dairy enterprise can be the most important step in evaluating the strengths and weaknesses of the dairy farm business. Changes in dairy herd size and market values are identified in the table below. The change in inventory value without appreciation is attributed to physical changes in herd size and quality. This increase in inventory is included as an accrual farm receipt when calculating profitability with and without appreciation.

	Dai	ry Cows	Heifers						
		•		Bred		Open	<u> </u>	alves	
Item	No.	Value	No,	Value	No.	Value	No.	Value	
Beg. year (owned)	100	\$82,525	34	\$19,814	25	\$ 9,670	21	\$4,381	
+ Change w/o apprec.		2,917		-427		588		223	
+ Appreciation		4,349		1,383		741		254	
End year (owned)	103	\$89,791	31	\$20,770	27	\$10,999	23	\$4,858	
End incl. leased	104								
Average number	101		79	(all age	grou	ps)			
Average Top 10% Farms:									
Beg. year (owned)	243	\$201,197	89	\$49,807	64	\$24,452	46	\$10,292	
+ Change w/o apprec.		13,197		3,919		-611		536	
+ Appreciation		6,235		2,890		852		145	
End year (owned)	259	\$220,629	91	\$56,616	60	\$24,693	53	\$10,973	
End incl. leased	259								
Average number	250		199	(all age	grou	ups)			

DAIRY HERD INVENTORY 426 New York Dairy Farms, 1987

There is a strong relationship between farm size and farm income. When data is sorted by herd size categories this relationship becomes apparent. Net farm income increased \$1,774 percent while labor and management income per operator jumped \$98,465 as herd size increased from less than 40 to over 300 cows per farm.

Table 24.	COWS PER FARM	AND FARM INCOME	MEASURES
	426 New Yo	ork Dairy Farms,	1987

Number of <u>Cows</u>	Average Number of Cows	Number of Farms	Worker Equivalent	Net Farm Income (w/o apprec.)	Labor & Management Income Per Operator
Under 40	33	32	1.55	\$ 11,140	\$ 1,228
40 to 54	47	69	1.93	15,546	4,429
55 to 69	62	74	2.46	17,099	1,362
70 to 84	77	71	2.81	26,024	6,573
85 to 99	90	41	3.00	34,773	12,999
100 to 149	119	70	3.54	41,411	10,501
150 to 199	171	31	4.74	52,589	12,241
200 to 299	241	27	6.35	81,414	27,968
300 & over	436	11	9.68	208,798	99,693

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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.

		M	IILK I	PRODUCI	CION	
42	.6	New	York	Dairy	Farms,	1987

Table 25.

Item	Average 426 Farms	Average Top 10% Farms
Total milk sold, lbs. Milk sold per cow, lbs.	1,649,750 16,351	4,480,731 17,899
Average milk plant test, percent butterfat	3.57	3.60

Farms with higher rates of production tend to have higher profits. In 1987, the farms that sold more than 15,000 pounds of milk per cow had substantially higher profit margins and higher than average herd sizes.

Table 26.	MILK	SOLD	PER	COW	AND	FARM	INCOME	MEASURES
		426	New	York	c Dai	iry Fa	arms, 1	987

Pounds of Milk Sold Per Cow	Number of Farms	Average Number of Cows	Net Farm Income w/o Apprec,	Net Farm Income Per Cow	Labor & Management Income/Oper.
Under 12,000	27	75	\$ 7,326	\$ 98	\$-3,980
12,000 to 13,999	47	80	21,361	267	4,442
14,000 to 14,999	48	81	19,092	236	877
15,000 to 15,999	77	103	33,063	321	8,493
16,000 to 16,999	91	103	35,206	342	11,532
17,000 to 17,999	67	105	39,798	379	12,757
18,000 to 19,999	52	102	44,409	435	16,173
20,000 & over	16	228	132,249	580	70,261

The cost of producing milk has been compiled using the whole farm method, and is presented in the following table and on the next two pages.

Table 27. ACCRUAL RECEIPTS FROM DAIRY AND COST OF PRODUCING MILK 426 New York Dairy Farms, 1987

	Ave	rage 426 1	Farms	Avera	ge Top 10	Farms
Item	Total	Per Cow	Per Cwt.	Total	Per Cow	<u>Per Cwt.</u>
<u>Accrual Costs of</u> <u>Producing Milk</u>						
Operating costs Total costs with- out op(s') labor,	\$153,852	\$1,525	\$9.33	\$384,641	\$1,537	\$8.58
mgmt. & capital	\$179,015	\$1,774	\$10.85	\$442,552	\$1,768	\$9.88
Total Costs	\$223,602	\$2,216	\$13.55	\$531,165	\$2,122	\$11.85
<u>Accrual Receipts</u> from Milk	\$212,625	\$2,107	\$12.89	\$578,773	\$2,312	\$12.92

Accrual receipts from milk sales are compared with the accrual costs of producing milk per cow and per hundredweight of milk in the preceding table. Using the whole farm method, <u>operating costs of producing milk</u> are estimated by deducting non-milk accrual receipts from total accrual operating expenses including expansion livestock. <u>Total costs of producing milk</u> include accrual operating costs plus expansion livestock purchased, depreciation on machinery and buildings, the value of operator's labor and management, and an interest charge for using equity capital. Note that the cost of operator's labor, management, and equity capital has been excluded in the intermediate calculation.

The total cost of producing milk on all 426 dairy farms averaged \$13.55 per hundredweight, \$0.60 more than the average price received for milk sold from these farms during 1987. In 1986 the total cost of producing milk averaged \$13.90 on 414 New York dairy farms, \$1.25 per hundredweight more than the average price received. This implies dairy farmers are willing to receive less than the stated returns on their labor and equity capital to remain in farming. The imputed costs or return to the operator's labor, management, and equity capital averaged \$2.70 per hundredweight in 1987. The actual estimated returns averaged \$2.04 per hundredweight.

Size of herd and level of milk production are directly related to the cost of producing milk. The cost of production for nine herd size categories and eight production levels is shown in the following table. The average total cost of production was \$14.64 for herds with less than 100 cows, and \$12.91 for those with 100 cows or more, for a difference of \$1.73 per hundredweight. Farms selling less than 16,000 pounds of milk per cow had an average total cost of production of \$15.10 while those selling 16,000 pounds and over averaged approximately \$12.85 for a difference of \$2.25 per hundredweight.

	By Herd Size			By Mill	k Sold	Per Cow	
	Cost	per Hundredw	<u>eight</u>	•	Cost	per Hundred	lweight
		Excluding	-	Pounds		Excluding	
Number	Oper-	Op.s Labor,		Milk Sold	Oper-	Op.s Labor	; ,
of Cows	ating	Mgt. & Cap.	<u>Total</u>	Per Cow	ating	Mgt, & Car	. Total
						-	
Under 40	\$ 9.30	\$10.98	\$16.08	Under 12,000	\$11.05	\$12.96	\$17.22
40 to 54	9.31	10.94	14.74	12,000 to 13,999	9.26	11.05	14.55
55 to 69	9.49	11.18	15.05	14,000 to 14,999	9.69	11.37	14.79
70 to 84	9.22	10.90	14.04	15,000 to 15,999	9.49	11.02	13.82
85 to 99	8.97	10.49	13.30	16,000 to 16,999	9.49	10.94	13.46
100 to 149	9.25	10.88	13.83	17,000 to 17,999	9.23	10.83	13.50
150 to 199	9.62	11.18	13.55	18,000 to 18,999	9.00	10.56	13.19
200 to 299	9.61	10.95	12.74	20,000 & over	8.60	9.72	11.25
300 & over	9.04	10.22	11.53	,		· • · -	

Table 28. FARM COST OF PRODUCING MILK BY HERD SIZE AND MILK SOLD PER COW 426 New York Dairy Farms, 1987

Costs of production are divided into 10 categories and presented for the 426 New York dairy farms and the top 10 percent farms (by net farm income, without appreciation) in Table 29 on page 23. Accrual non-milk receipts are deducted from accrual expenses on the assumption they were produced at cost. A \$2,700 increase in crop inventories and government receipts averaging \$5,678 per farm are included as a credit or negative cost of production under feed and crop expenses. Government receipts were primarily crop related in 1987.

			age of 426	Average of		
	<u>New York Dairy Farms</u>			Top 10% Farms		
Cost Item	<u>T</u>	<u>otal</u>	Cost/Cwt.	Total		
			(16,498 cwt.)		(44,807 cwt)	
Feed & Crop Expense						
Dairy grain & concentrate	-	1,043		\$136,485		
Dairy roughage		1,903		7,119		
Other livestock feed		857		939		
Fertilizer & lime		8,239		19,261		
All other crop expenses		6,598		19,394		
- Crop sales & gov't receipts	1	0.499		43,821		
TOTAL	\$5	8,141	\$ 3.52	\$139,377	\$ 3.11	
Labor_Costs	-					
Value of operator's labor &						
management & family labor	\$ 2	7,133		\$ 43,253		
Hired labor	-	4.522		87,216		
TOTAL		1,655	\$ 3.13	\$130,469	\$ 2.91	
<u>Machinery Costs</u>	ŶĴ	1,000	Y 3.13	VI30,40 7	¥ 2.71	
Depreciation	¢ 1	5,488		\$ 35,125		
-						
Machine repairs, hire & auto	T	5,191		34,979		
Fuel, oil & grease		5,744		13,312		
- Gas tax ref & custom work	<u> </u>	531		1.463		
TOTAL	Ş3	5,892	\$ 2.18	\$ 81,953	\$ 1.83	
<u>Livestock Expenses</u>						
Breeding fees, vet & medicine		7,699		\$ 21,591		
Other livestock expense		<u>8,574</u>		<u> 20,673</u>		
TOTAL	\$1	6,273	\$ 0.99	\$42,264	\$ 0.94	
<u>Milk Marketing</u>	\$1	2,195	\$ 0.74	\$31,373	\$ 0.70	
Livestock Ownership						
Purchased livestock	\$	3,851		\$ 9,104		
Cattle lease	-	130		289		
- Dairy cattle & lvstk. sales*	2	2,249		65,779		
TOTAL	-	8,268	\$-1.11	\$-56,386		
<u>Real Estate Costs</u>	· -	,	,	,,	+	
Land, building & fence repair	Ś	3,294		\$ 11,017		
Taxes & insurance	Ŷ	9,325		18,883		
Rent/lease		4,200		13,108		
		•				
Building depreciation		8,093	A 1 E1	22.043		
TOTAL	Ş 4	4,912	\$ 1.51	\$ 65,051	\$ 1.45	
Interest Expense		- 100		A 00 554		
Interest paid	-	7,132		\$ 38,551		
Interest on equity @ 5%		9.035		46,103		
TOTAL	Ş 3	6,167	\$ 2.19	\$ 84,654	\$ 1.89	
<u>Miscellaneous</u>						
Telephone & electricity	\$	6,311		\$ 13,436		
Miscellaneous		3,237		7,658		
- Miscellaneous income		<u>2,913</u>		<u> </u>		
TOTAL	\$	6,635	\$ 0.40	\$ 12,410	\$ 0.28	
TOTAL COST OF PRODUCING MILK	\$22	3,602	\$13.55	\$531,165	\$11.85	
- Operator's labor, manage-						
ment & capital	4	<u>4,587</u>	2.70	88,613	1.98	
TOTAL COST EXCLUDING OPERATOR'S						
LABOR, MANAGEMENT & CAPITAL		9,015	\$10.85	\$442,552	\$ 9.87	
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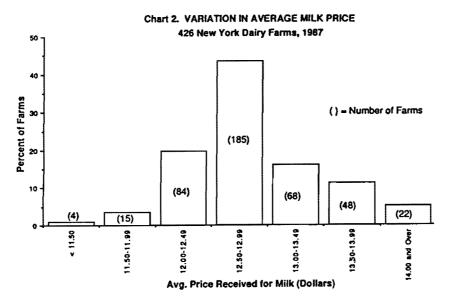
Table 29.TOTAL COST OF PRODUCING MILK BASED ON WHOLE FARM DATA426 New York Dairy Farms and Top 10 Percent of Farms, 1987

*Includes \$135 of nonfarm noncash capital for cattle and crops.

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The <u>average or mean price per hundredweight of milk sold</u> is calculated by dividing the gross milk receipts for the year by the total pounds of milk sold. The average price for the 426 farms was \$12.89 but there was considerable variation among the individual farms. The variation in average price received and the distribution of farms around the mean is shown below.



Sixty-three percent of the farms received from \$12.00 to \$12.99 per hundredweight of milk sold. Thirty-three percent of the farms received \$13.00 or more per hundredweight while four percent received less than \$12.00 per hundredweight. Location and organization of markets are factors contributing to the variability of milk prices on these dairy farms. Management practices on farms as well as in milk companies also affect farm milk prices. Seasonality of production and butterfat test are two variables under the direct control of the farm manager.

The accrual operating expenses most commonly associated with the dairy enterprise are listed in the table below. Evaluating these costs per unit of production enables the comparison of different size dairy farms for strengths and areas for improvement.

	Average	426 Farms	Average To	p 10% Farms
Item P	er Cow	Per Cwt.	Per Cow	Per Cwt
Purc. dairy grain & conc.	\$506	\$3.09	\$545	\$3.04
Purchased dairy roughage	19	0.12	28	0.16
Total Purchased Dairy Feed	\$525	\$3.21	\$573	\$3.20
Purchased grain & conc.				-
as % of milk receipts	2	248	2	48
Purchased feed & crop exp.	\$672	\$4.11	\$728	\$4.07
Purchased feed & crop exp.				·
as % of milk receipts	3	328	3	81%
Breeding	\$31	\$0.19	\$32	\$0.18
Veterinary & medicine	46	0.28	54	0.30
Milk marketing	121	0.74	125	0.70
Cattle lease	1	0.01	1	0.01
Other livestock expense	85	0.52	83	0.46

Table 30.DAIRY RELATED ACCRUAL EXPENSES426 New York Dairy Farms, 1987

<u>Feed costs</u> per cow and per hundredweight of milk sold are influenced by a number of factors. These cost measures are affected by the amount of homegrown grains fed, quality and quantity of the roughage harvested, and the number of youngstock. Feed costs are also influenced by the farmer's ability to purchase grains and concentrates at reasonable prices and to balance nutrients fed with energy and protein requirements.

<u>Purchased dairy grain and concentrates per cow</u> is calculated by dividing the total accrual expenses for dairy grains and concentrates purchased by the average number of cows. Because this also includes the amount spent for calf and heifer feed, it actually represents the feed cost for one cow and 0.78 replacement being raised.

<u>Purchased feed and crop expense</u> per hundredweight of milk is one of the most useful feed cost measures because it accounts for some of the variations in feeding and cropping programs, and milk production between herds. It includes all purchased feeds used on the farm, and it includes crop expenses that are associated with feed production.

<u>Purchased grain and concentrates as percent of milk sales</u> is calculated by dividing feed purchased by milk receipts. This is another useful measure of feed efficiency although variations in homegrown grains fed and milk prices can have an adverse effect. <u>Purchased feed and crop expense as percent of milk sales</u> removes much of the variation caused by the feeding of home grown grains.

Cost control has an important affect on farm profitability. The relationship purchased dairy grain and concentrates as percent of milk receipts has with farm profitability is shown in the following table.

			Forage		Net Farm	Labor &
Feed & Crop Exp. Per Cwt. of Milk	Number of Farms	Number of <u>Cows</u>	Dry Matter Harvested Per Cow	Pounds Milk Per Cow	Income Without Apprec,	Management Income Per Operator
\$5.50 or more	21	100	6.9	15,130	\$11,912	\$-4,423
5.00 to 5.49	47	103	7.0	15,643	22,748	1,536
4.50 to 4.99	63	118	8.0	16,607	41,605	15,710
4.00 to 4.49	89	106	8.3	16,494	35,720	12,417
3.50 to 3.99	97	98	7.9	16,843	40,113	15,316
3.00 to 3.49	55	95	7.5	16,404	39,432	13,745
2.50 to 2.99	33	82	7.9	16,165	37,240	11,590
Less than 2.50	21	81	7.8	15,344	27,766	3,704

Table 31.PURCHASED FEED AND CROP EXPENSE PER HUNDREDWEIGHT
OF MILK AND FARM INCOME MEASURES
426 New York Dairy Farms, 1987

If purchased feed and crop expenses are restricted enough to cause substantial declines in production, profits will fall. Farmers spending less than \$5.00 but more than \$2.50 per hundredweight of milk for feed and crop expenses in 1987 appear to be practicing the most effective feed and crop cost control.

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 the amount of work each worker has accomplished.

Table 32.	CAPITAL E 426 New York Da			
Item (Average for Year)	Per Worker	Per Cow	Per Tillable Acre	Per Tillable Acre Owned
Farm capital Real estate	\$186,274	\$5,894 \$2,805	\$1,948	\$2,974 \$1,415
Machinery & equipment Capital turnover, years	\$33,410	\$1,057 2.19	\$349	
Average Top 10% Farms:				
Farm capital Real estate	\$219,414	\$5,555 \$2,515	\$2,168	\$3,425 \$1,551
Machinery & equipment	\$34,506	\$874	\$341	¥1,331
Capital turnover, years		1.88	<u>.</u>	

Capital turnover is a measure of capital efficiency as it shows the number of years of farm receipts required to equal or "turnover" capital investment. It is computed by dividing the average farm assets by the year's total farm accrual receipts. The relationship capital turnover has to labor and management income and other factors is shown in the following table. As a general rule, dairy farmers should aim for a capital turnover rate of 2.5 years or less.

Table 33.	CAPITAL	TURNOVER	AND LABOR	AND M	IANAGEMENT	INCOME
		426 New	York Dairy	y Farm	ns, 1987	

Capital	No.	No.		Farm Capital		Net Farm
Turnover	of	of	<u>(average</u>	<u>for year)</u>	Inc. Per	Income
<u>Rate - Years</u>	Farms	Cows	Per Cow	Per Worker	Operator	(w/o apprec.)
Less than 1.5	21	192	\$4,010	\$150,196	\$42,747	\$87,797
1.5 to 1.99	103	124	5,039	172,022	21,507	48,476
2.0 to 2.49	157	95	5,944	183,616	11,036	34,426
2.5 to 2.99	81	84	6,886	206,035	4,335	26,615
3.0 to 3.49	29	84	7,832	215,401	-4,867	18,581
3.5 & over	35	58	9,018	229,156	-16,479	1,583

The 42 farms with the highest net farm incomes (without appreciation) were considerably above the average of all 426 farms in the three measures of labor efficiency. The top 10 percent sold 37 percent more milk per worker than the average of all farms.

Table 34.		EFFICIENCY Dairy Farms, 198	87	
Labor	<u>Average</u>	<u>426 Farms</u>	<u>Average Top</u>	10% Farms
Efficiency	Total	Per Worker	Total	Per Worker
Cows, average number	101	32	250	40
Milk sold, pounds	1,649,750	516,728	4,480,731	707,041
Tillable acres	305	96	641	101

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The labor force averaged 3.19 full-time worker equivalents per farm. Forty-one percent of the labor was supplied by the farm operator/managers. There were two operators on 146 farms, three on 24 farms, and three farms reported four operators.

Labor costs, labor efficiency, and farm profitability are closely related. Farms with high net farm incomes can attribute some of their success to the control of labor and machinery costs. Labor and machinery costs averaged \$10 per cow less on the 42 farms in the top decile.

Table 35.	LABOR	FORCE INVENTORY AND COST ANALY	ISIS
	426	New York Dairy Farms, 1987	

			Years	v	alue of
Labor Force	Mont	ns Age	of Educ.	Lab	or & Mgmt.
Operator number 1	11.	71 45	13		\$18,897
Operator number 2	3.0	51 39	13		5,778
Operator number 3	0.	51 42	13		776
Operator number 4	0.0		12		<u> 101</u>
Family paid	5.0			Total	\$25,552
Family unpaid	2.4				
Hired	<u>14.</u>				
Total	38.		9 Worker Equi		
		1.3	2 Operator/Ma	mager	Equiv.
Average Top 10% Farms:				_	
Total		12 = 6.3			
Operators'	21.	14 + 12 = 1.7	6 Operator/Ma	anager	Equiv.
	Averag	e 426 Farms	_Averag	ze Top	10% Farms
	P	er Per		Per	Per
Labor Costs	Total C	<u>ow Til. Acre</u>	Total	Cow	<u>Til. Acre</u>
Value op.s' lab.(\$900/mo)	\$14,303 \$	142 \$ 48.86	\$ 19,029	\$76	\$ 29.67
Family unpd. (\$650/mo.)	1,582	16 5.18	743	3	1.16
Hired	_24,522	<u>243 80.34</u>	87,216	<u>_348</u>	136.00
Total Labor	\$40,407 \$	401 \$132.38	\$106,987	\$427	
Machinery Cost	41,704	<u>413 136.63</u>	<u> </u>	<u> </u>	<u> 147.07 </u>
Total Labor & Mach.	\$82,111 \$	814 \$269.01	\$201,302	\$804	\$313.89

The relationship of labor efficiency to net farm income is very positive on the 426 farms. The higher outputs of milk sold per worker are partially attributable to more and higher producing cows.

Table 36.	T	a	Ъ	1	e		3	6	•
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MILK SOLD PER WORKER AND NET FARM INCOME 426 New York Dairy Farms, 1987

Pounds of Milk Sold Per Worker	No. of	No. of	Pounds Milk Por Cou	Net Farm Income	Labor & Mgmt. Income
Sold Fel Wolker	Farms	Cows	Per Cow	(w/o apprec.)	<u>Per Operator</u>
Under 200,000	6	49	11,490	\$ 5,157	\$-2,725
200,000 to 299,999	29	50	13,722	9,037	-6,032
300,000 to 399,999	89	65	14,796	18,916	2,501
400,000 to 499,999	129	83	15,876	27,394	7,696
500,000 to 599,999	86	107	16,754	35,239	8,849
600,000 to 699,999	52	132	16,994	53,266	21,160
700,000 & over	35	247	17,644	105,173	51,089

Miscellaneous Costs

Costs in addition to feed, machinery, and labor make a sizable impact on total dairy farm expenditures and profits. The "cost conscious" manager checks on all cost items both large and small. Good cost management requires careful planning and priority spending on farm inputs. A number of miscellaneous cost items and cost control measures are reported in the following table to help in a detailed checkup on all farm costs.

Table 37.	MISCELLANEOUS COST CONT	ROL MEASURES
	426 New York Dairy H	Farms, 1987

_	Average	Average Top
Item	426 Farms	10% Farms
Livestock		
Breeding fees per cow	\$31	\$32
Veterinary & medicine per cow	\$46	\$54
Other livestock expense per cow	\$85	\$83
Milk marketing per cow	\$121	\$125
Milk marketing per hundredweight milk	\$0.74	\$0.70
<u>Real Estate</u>		
Land, building, & fence repair per cow	\$33	\$44
Taxes per cow	\$57	\$47
Taxes per \$1,000 year-end real estate value	\$20	\$18
Insurance paid per cow	\$36	\$29
Rent paid per cow	\$42	\$52
Rent paid per acre rented	\$34	\$52
Total real estate expense per cow	\$168	\$172
<u>Capital Cost</u>		
Interest paid per cow	\$170	\$154
Interest on equity per cow	\$189	\$184
Interest paid as percent of average debt	8.0%	8,2%
Machinery depreciation as percent of		
beginning inventory plus purchases	13%	14%
Total depreciation per cow	\$234	\$228
Fixed & Variable Costs*		
Total fixed costs per cow	\$775	\$741
Total variable costs per cow	\$1,547	\$1,689
Variable costs per hundredweight milk sold	\$9.46	\$9.44

*Fixed costs include real estate repairs, taxes, insurance, rent, interest paid, depreciation, unpaid family labor, and interest on equity capital. All other costs were classified as variable.

Fixed costs per cow on the top decile farms were four percent below the 426 farm average. This results from more intensive use and better management of the resources associated with fixed costs. Variable costs were two cents lower per hundredweight of milk sold on the top farms.

Combination of Factors

Several factors representing the cropping program, dairy program, capital and labor efficiency, and cost control have been independently examined in the analysis up to this point. Yet these factors are interrelated. A combination of four important factors representing size, production, labor efficiency, and cost control are studied. The factors combined are cows per farm, pounds of milk sold per cow, pounds of milk sold per worker, and purchased feed and crop expense per hundredweight of milk.

For each factor, the farms were divided on the basis of whether or not they were better than the average for the 426 farms. They were then grouped on the basis of the number of factors better than average. The combination of factors above or below average within the three middle groups varied.

The relationship between the number of factors better than average and net farm income is shown in the table below. As the number of factors better than average decreased, net farm income decreased at a rapid rate.

Table 38.

COMBINATION OF FACTORS ABOVE AVERAGE* AND NET FARM INCOME 426 New York Dairy Farms, 1987

Number of Factors Above Average	Number of Farms	Percent of Farms	Net Farm Income without Appreciation
4 factors better than average	27	6	\$101,956
3 factors better than average	65	15	69,607
2 factors better than average	127	30	32,335
1 factor better than average	144	34	19,241
0 factors better than average	63	15	13,287

*Factors were:

Rate of production - pounds of milk sold per cow - average 16,351 Labor efficiency - pounds of milk sold per worker - average 516,728 Cost control - purchased feed and crop expense per hundredweight milk average \$4.11

The 27 farms with four factors better than average had 204 cows, 18,951 pounds of milk sold per cow, 713,947 pounds of milk sold per worker, and \$3.53 per hundredweight purchased feed and crop expense. Net farm income averaged \$101,956 on these farms. Obviously, other business factors excluded from the combination in the above table have a strong affect on business profits. These include labor, machinery and crop expenses, capital efficiency, financial management, crop yields, and the receipts from milk and cattle sales.

It is important in managing a farm business to give attention to all major factors affecting the business. Concentrating on only one or two factors and neglecting the others will not give the kind of net return most farmers want.

Size - number of cows - average 101.

Farm Business Charts

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 426 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.

The cost control factors are ranked from low to high, but the <u>lowest cost</u> <u>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.

Size of Business		Rates of Production			Labor Efficiency		
Worker	No.	Pounds	Pounds	Tons	Tons Corn	Cows	Pounds
Equiv-	of	Milk	Milk Sold	Hay Crop	Silage	Per	Milk Sold
<u>alent</u>	Cows	Sold	Per Cow	DM/Acre	Per Acre	Worker	Per Worker
7.4	288	5,050,360	19,730	4.5	24	49	799,099
4.6	157	2,574,309	18,109	3.7	20	39	639,739
3.7	117	1,895,640	17,473	3.2	18	36	575,793
3.3	96	1,560,906	16,851	3.0	17	32	527,968
2.9	82	1,343,837	16,370	2.7	16	31	486,445
2.6	73	1,140,151	15,925	2.5	15	29	454,799
2.4	64	972,139	15,394	2.3	14	27	424,189
2.1	56	842,732	14,675	2.0	13	25	381,809
1.8	47	709,379	13,608	1.8	12	22	337,608
1.3	35	512,284	11,275	1.3	9	17	251,762

Table 39.	FARM BUSINESS	CHART FOR	FARM MANAGEMENT	COOPERATORS
	42	6 New York	Dairy Farms, 19	87

Cost Control						
Grain Bought Per Cow	% Feed is of Milk Receipts	Machinery Costs Per Cow	Labor & Machinery Costs Per Cow	Feed & Crop Expenses Per Cow	Feed & Crop Expenses Per Cwt, Milk	
\$209	19%	\$220	\$ 524	\$349	\$2.46	
312	24	285	631	469	3.11	
383	27	320	690	531	3.47	
431	29	351	734	573	3.68	
468	31	383	778	627	3.93	
508	33	415	831	678	4.19	
547	35	451	894	711	4.40	
595	36	493	953	759	4.70	
666	39	549	1,033	823	5.01	
769	44	706	1,190	943	5.63	

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The next section of the Farm Business Chart provides for comparative analysis of the value and costs of dairy production.

The 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.

Table 39	(continued)	MANAGEMENT	CHART FOR FAR COOPERATORS Dairy Farms, 19		
Milk	Dairy	Oper. Cost	Oper. Cost	Total Cost	Total Cost
Receipts	Receipts	Milk	Milk	Production	Production
Per Cow	Per Cwt.	Per Cow	Per Cwt.	Per Cow	Per Cwt.
\$2,544	\$14.27	\$ 890	\$ 6.03	\$1,656	\$11.12
2,351	13.56	1,137	7.31	1,893	12.17
2,259	13.18	1,242	8.01	2,006	12.75
2,174	12.97	1,324	8.54	2,101	13.23
2,110	12.81	1,423	9.04	2,190	13.73
2,037	12.72	1,509	9.39	2,289	14.25
1,968	12.61	1,590	9.87	2,390	14.73
1,889	12.51	1,690	10.49	2,470	15.33
1,733	12.36	1,824	11.22	2,607	16.63
1,462	11.96	2,098	13.10	3,024	19.71

FARM BUSINESS CHART FOR FARM

Profitability Return to Operator's Labor, Labor & Net Farm Income Management, & Equity Capital Management Income With Without Without With Per Per Appreciation Appreciation Appreciation Appreciation Farm <u>Operator</u> \$136,268 \$197,621 \$136,964 \$196,383 \$95,478 \$71,503 92,938 62,277 91,549 61,167 36,159 28,206 75,433 46,889 74,352 44,671 25,310 20,638 59,966 37,085 58,410 35,784 19,308 14,620 50,071 29,409 48,144 28,474 9,894 13,697 ------------ - - - - - - - ------...... 40,312 24,442 38,795 23,170 7,936 6,437 32,360 17,870 30,644 15,931 2,912 2,277 23,593 12,737 21,911 -2,909 10,230 -3,450 2,719 -11,217 16,232 4,764 14,494 -9,828 -3,558 -5,512 -17,210 -18,986 -37,719 -32,962

Farm Business Charts for farms with freestall barns and 120 cows or less and more than 120 cows, and farms with conventional barns with 60 cows or less and more than 60 cows are discussed in the supplemental section on pages 45-49.

Financial Analysis and Management

Analysis and astute management of farm financial affairs must receive high priority if the farm business is to be successful and if the farm family is to achieve a reasonable living standard.

The Farm Finance Checklist and the Financial Analysis Chart are provided to serve as guidelines. Dairy farmers can determine how their financial management measures up by comparing with average data from other farms.

Table 40.	A FARM FINANCE CHECKLIST
	426 New York Dairy Farms, 1987

	Average <u>New York</u>		Average 10% Farm	
<u>How farm assets are being used (average for the year)</u> :				
Total assets (capital) per cow	\$5,89	94	\$5,55	5
Farm assets in livestock	21	8	22	8
Farm assets in farm real estate	48	38	45	8
Farm assets in machinery	18	38	16	8
Measures of debt capacity & debt structu	<u>re</u> :			
Equity in the business	65	58	68	8
Farm debt per cow	\$2,04	۰ 6	\$1,79	7
Long term debt/asset ratio**	0.4	F0	0.3	5
Intermediate & current term				
debt/asset ratio**	0.3	10	0.3	0
Intermediate & current term				
debt as % of total	45	i &	51	8
Debt repayment ability:***				
Cash flow coverage ratio	1.3	2	1,8	0
Debt payments made per cow	\$54	•2	\$56	3
Debt payments made as % of milk check	25	ંક	24	÷\$
Indicators of annual financial progress:	Amount	<u>Percent</u>	Amount	<u>Percent</u>
Annual change in farm assets	+\$32,611	+5.6%	+\$107,771	+8.1%
Annual change in farm debts	-\$2,413	-1.1%	-\$5,886	-1.2%
Annual change in farm net worth	+\$35,023	+9.6%	+\$113,657	+13.1%

*Forty-two farms with highest net farm incomes (without appreciation). **Long or intermediate and current term debt divided by long or intermediate and current term assets.

***Average of 332 farms (36 farms for top 10 percent) that participated in Summary Program both in 1986 and 1987.

The most profitable farms carried \$249 less debt per cow, had a greater ability to make 1987 debt payments, and equity in their business was three percent more than that of the average.

Average farm assets grew faster than inflation and farm debts declined during 1987 causing average net farm worth to increase nearly 10 percent.

Financial Analysis Chart

The farm financial analysis chart is designed just like the <u>Farm Business</u> <u>Chart</u> on pages 30-31 and may be used to measure the financial health of the farm business. Most of the financial measures used are defined on pages 11, 13, 16, and 26 in this publication.

Table 41.			AL ANALYSIS rk Dairy Fa		
		Liqui	dity (repay	nent)	
Debt	Availa	ble for	Cash Flow	Debt Payn	ients
Payments		Service	Coverage	as Perce	
Per Cow	Per		Ratio	of Milk S	
\$ 51		37	14.14	28	\$ 96
210		10	2.18	10	636
303		534	1.63	15	1,137
373		569	1.35	18	1,508
441		520	1.22	21	1,840
500		+66	1.06	24	2,199
568		+14	0.93	29	2,523
646		340	0.79	33	2,904
808		246	0.57	40	3,407
1,610	•	72	-0.19	81	4,837
	50.	lvency Debt/Asset	Ratio	<u>FI</u>	ofitability
Leverage	Percent	Current &	Long	<pre>% Rate</pre>	of Return on:
 Ratio*	Equity	Intermediate	Term	Equity	Investment**
0.02	99	0.00	0.00	35	19
0.13	90	0.05	0.01	17	14
0.25	82	0.12	0.12	12	11
0.36	75	0.18	0.26	9	9
0.48	69	0.24	0.34	7	7
0.63	63	0.31	0.44	5	6
0.82	57	0.37	0.55	3	5
1.05	50	0.43	0.65	1	3
1.50	42	0.50	0.80	-3	1
8.53	22	0.77	1.21	- 34	-4
			iency (Capi		
Capital					
Turnover	Rea	al Estate	Machiner	y Investment	Total Farm
(years)		ment Per Cow		r Cow	Assets Per Cow
1.47		L,344	\$	458	\$3,792
1.78		,938	•	660	4,577
1.95		2,192		783	5,089
2.07		2,454		915	5,391
2.18		2,632		1,000	5,695
2.31		2,868		1,118	6,070
2.49		3,205		1,247	6,482
2.69		3,640		1,417	7,046
3.04		+,214		1,650	7,888
4.07		5,019		2,191	9,829
		-		-	otal liabilities

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

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

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SUPPLEMENTAL INFORMATION

Introduction

Comparisons of business performance for the same farms over time, by herd size and housing, business organization and milking technology, and numerous other factors are contained in this section. Summary data is also presented for dairy-cash crop and dairy-renters in this section. The tables on the following pages are provided for use as a reference, thus, the discussion of each table is at a minimum.

<u>Herd Size Comparisons</u>: A detailed comparison of profitability, financial situation, and business analysis factors across herd sizes is contained in Tables 42 through 44. As herd size increases, the average profitability also increases (Table 42). Net farm income without appreciation was \$208,798 per farm for the 300 or more herd size group and \$11,140 per farm for those with less than 40 cows. This relationship generally holds for all measures of profitability including rate of return on equity capital.

As herd size increases, percent equity generally decreases (Table 43). The most dramatic decline occurs above 100 cows. However, farm net worth increases substantially as herd size increases. The average net worth for all size farms increased during 1987.

Crop yields increased as herd size increased, but fertilizer and lime expenses and machinery cost per tillable acre also increased (Table 44). Milk sold per cow increased as herd size increased, ranging from 15,234 pounds on the farms with less than 40 cows to 18,808 pounds on farms with 300 or more cows. Farm capital per worker increased as herd size increased, while farm capital per cow decreased as herd size increased. Cows per worker increased dramatically as herd size increased, ranging from 22 at the lowest herd size category up to 45 at the largest size category.

<u>Same 242 New York Dairy Farms, 1985, 1986, and 1987</u>: Two hundred and forty-two farms participated in the Dairy Farm Business Summary Project in all three years 1985, 1986, and 1987 (Table 45). Total operating expenses and total accrual expenses, and receipts have been slowly increasing over these years. During this time, average cow numbers increased from 99 in 1985 to 107 in 1987. Most measures of profitability have increased in the same fashion. Net farm income without appreciation increased \$13,726 from 1985 to 1987 on these farms. Labor and management income per farm increased \$11,801 from 1985 to 1987; however, labor and management income per operator decreased \$2,174 from 1986 to 1987.

Pounds of milk sold per cow has increased by 637 pounds or 4.0 percent over the last three-year period. When combined with the increase in cow numbers, the increase in milk sold per cow results in total milk sold per farm increasing by 191,697 pounds. This increase has been achieved by only a small addition to the work force and, thus, pounds of milk sold per worker has increased significantly.

<u>Comparisons by Type of Barn and Herd Size</u>: When analyzing a dairy farm business by comparing it to a group of farms, it is important that the group of farms used have as many of the same physical characteristics as possible as the farm being analyzed. To assist in this endeavor, dairy farms in the summary have been divided into those with freestall and those with conventional housing. Within each group is a further classification by size of the dairy herd.

Table 46 on page 45 shows the average values for the resulting four groups of dairy farms. Within each housing type, the larger herd size has the highest crop yields and pounds of milk sold per cow. The cost of producing milk was lower on the larger farms and labor efficiency greater. Profitability was also greater on the larger farms within each housing type.

Farm business charts have been computed for each of the four housing and herd size categories. From these charts on pages 46-49 (Tables 47-50) the range in size of business, rates of production, labor efficiency, value and cost of producing milk, and profitability can be observed. The range in every category of business performance is tremendous.

By comparing the farm's performance on the most appropriate business chart, a farm manager will be better able to evaluate his or her business performance. Farm managers should remember, however, that their competition is not limited to the other farms in their own barn type and herd size category. They should observe how their management performance compares with farms in other categories as well.

Comparisons by Business Organization: A comparison of profitability, business analysis factors, and financial situation by business organization is contained in Tables 51 and 52. Farms organized as a corporation are larger than partnership-operated farms and more than twice as large as proprietorship-operated farms. Profitability is also greater on corporation organized farms, followed by partnerships and then proprietorships.

Comparison by Milking System: Farms with herringbone parlors had the highest farm capital per worker and the highest cows per worker (Table 53). Farms with herringbone parlors were also larger and had the greatest profitability.

Comparison of Dairy Farm Business Data by Region: Average farm business summary data from four areas or regions of the State are compared in Table 54. The largest average farm size, highest average rates of production, and highest average farm profits came from Region 2.

Ten Year Comparisons: Selected business factors and average data on the cost of producing milk from all specialized dairy farms included in each annual summary from 1978 through 1987 are presented in Tables 55 and 56. This 10 year comparison identifies steady growth in productivity and remarkable cost management as outstanding characteristics on these New York dairy farms.

Other Comparisons: The 14 dairy-cash crop farms had less cows than the 426 specialized dairy farms, but had more crop acres and crop sales and were more profitable (Table 57). A.E. Ext. 87-20 contains detailed information on dairycash crop farms for the year 1986. A publication containing 1987 data is forthcoming.

Dairy-renter farms were smaller than the 426 owner-operated farms, and were less profitable than the average specialized dairy farm (Table 58). A.E. Ext. 87-19 contains detailed information on dairy-renters. A publication containing 1987 data is forthcoming.

Data for the top 10 percent of farms by net farm income without appreciation is presented in Table 59. Summary data for the 426 specialized dairy farms is presented for the farm in Table 60 and on a per cow basis in Table 61.

Table 42.

FARM BUSINESS SUMMARY BY HERD SIZE 426 New York Dairy Farms, 1987

Item Farm Size:	Less than 40 Cows	40 to 54 Cows	55 to 69 Cows	70 to 84 Cows	85 to 99 Cows
Number of farms	32	69	74	71	41
ACCRUAL EXPENSES					
Hired labor	\$ 2,757	\$ 5,999	\$ 11,494	\$ 15,070	\$ 18,684
Dairy grain & concentrate	17,025	22,287	29,046	37,345	42,482
Dairy roughage	933	1,098	954	1,427	624
Other livestock feed	444	358	696	686	1,063
Machine hire/rent/lease	1,163	817	1,632	1,720	2,416
Machine repairs/parts	3,091	5,150	6,947	8,775	11,089
Auto expense (farm share)	302	556	740	655	686
Fuel, oil & grease	1,653	2,204	3,539	3,995	5,046
Replacement livestock	2,470	988	1,930	1,753	1,858
Breeding	1,081	1,535	2,029	2,576	2,647
Veterinary & medicine	1,280	1,663	2,759	3,420	3,466
Milk marketing	4,718	6,109	7,384	9,569	9,458
Cattle lease/rent	 14	46	37	175	109
Other livestock expense	2,503	4,154	5,310	6,835	7,604
Fertilizer & lime	2,070	3,431	4,903	6,178	8,386
Seeds & plants	728	1,218	2,053	2,522	2,898
Spray & other crop expense	521	942	1,801	1,939	2,738
Land/building/fence repair	803	1,075	1,988	2,025	2,752
Taxes & insurance	3,729	4,746	7,161	7,526	9,326
Telephone & electricity	2,724	3,329	4,399	5,311	5,812
Interest paid	5,878	9,279	9,839	12,703	15,433
Misc. (including rent)	2,030	2,846	4,403	5,395	<u> </u>
Total Operating Expenses	\$57,917	\$ 79,830	\$111,044	\$137,600	\$160,980
Expansion livestock	154	750	1,145	1,101	196
Machinery depreciation	4,540	6,811	9,935	13,227	13,545
Building depreciation	2,612	3,154	5,331	5,305	6,692
Total Accrual Expenses	\$65,223	\$ 90,545	\$127,455	\$157,233	\$181,413
ACCRUAL RECEIPTS					
Milk sales	\$65,663	\$ 93,254	\$125,036	\$157,419	\$185,624
Dairy cattle	6,599		8,596		
Dairy calves	1,217	1,651	2,086	2,608	2,914
Other livestock	605	131	317	338	153
Crops	900	713	3,183	2,440	4,441
Misc. receipts	1,380	2,564	5,336	6,708	7,118
Total Accrual Receipts	\$76,363	\$106,091			
PROFITABILITY ANALYSIS					
Net farm income (w/o apprec.)	\$11,140	\$15,546	\$17,099	\$26,024	\$34,773
Net farm income (w/apprec.)	\$21,927	\$30,098	\$31,811		\$55,411
Labor & mgmt. income	\$1,277	\$5,093	\$1,771	\$8,413	\$16,249
Number of operators	1.04	1.15	1.30	1.28	1.25
Labor & mgmt. inc./oper.	\$1,228	\$4,429			\$12,999
Rates of return on:	Y1,220	Y7,727	Υ τ ; 302	0,070	Y12,777
Equity capital w/o apprec.	-4.6%	-3.2%	-2.8%	0.4%	2.5%
Equity capital w/apprec.	1.8%	5.3%	2.4%	6.3%	8.89
All capital w/o apprec.	-0.8%	1.3%			4.68
All capital w/apprec.	3.78	6.2%	4.1%	6.8%	8.5%

FARM BUSINESS SUMMARY BY HERD SIZE 426 New York Dairy Farms, 1987

Item Farm Size;	100 to 149 Cows	150 to 199 Cows	200 to 299 Cows	300 More	
Number of farms		31	27		11
	,,,				
ACCRUAL EXPENSES	0 05 100	A 47 977	6 75 540 C	170	601
Hired labor	\$ 25,102	\$ 47,877	\$ 75,549 \$,681
Dairy grain & concentrate	56,974	86,662	133,931		,093
Dairy roughage	801	1,387	6,292		,695
Other livestock feed	616	2,337	1,925		,356
Machine hire/rent/lease	2,516	3,678	6,636		,670
Machine repairs/parts	15,054	24,145	31,332		,448
Auto expense (farm share)	668	610	656		,512
Fuel, oil & grease	6,981	12,430	14,265		,939
Replacement livestock	1,519	4,468	6,034		,248
Breeding	3,546	5,002	7,259		,662
Veterinary & medicine	4,968	7,667	12,604		,205
Milk marketing	14,281	21,327	28,600	52	,360
Cattle lease/rent	14	814	0		557
Other livestock expense	9,821	13,907	21,022		,220
Fertilizer & lime	10,411	14,729	20,450		,461
Seeds & plants	4,520	6,186	8,655		,239
Spray & other crop expense	4,299	5,252	7,839		,550
Land/building/fence repair	3,890	5,188	6,828		,692
Taxes & insurance	10,856	15,566	19,405		,402
Telephone & electricity	7,238	10,360	13,821		,876
Interest paid	18,586	29,497	42,206		,461
Misc. (including rent)	8,560	12,652	20.694		<u>,966</u>
Total Operating Expenses	\$211,221	\$331,741	\$486,003 \$,293
Expansion livestock	2,114	2,976	3,044		,232
Machinery depreciation	19,857	28,073	31,247	58	,995
Building depreciation	9,604	13,753		37	<u>,605</u>
Total Accrual Expenses	\$242,796	\$376,543	\$542,099 \$	1,030	,125
ACCRUAL RECEIPTS					
Milk sales	\$246,068	\$361,325	\$521,194 \$		
Dairy cattle	20,5 3 6	34,740	48,174	94	,637
Dairy calves	3,653	5,566	8,117	15	,121
Other livestock	2 6 6		4,624		166
Crops		5,451			
Misc. receipts	<u> </u>		24,655		
Total Accrual Receipts	\$284,207	\$429,132	\$623,513 \$	1,238	,923
PROFITABILITY ANALYSIS					
Net farm income (w/o apprec.)	\$41,411	\$52,589	\$81,414	\$208	,798
Net farm income (w/apprec.)	\$64,485				,560
Labor & mgmt. income	\$15,647				,561
Number of operators	1.49		1.54		1.43
Labor & mgmt. inc./oper.		\$12,241			,693
Rate of return on:		• •		•	
Equity capital w/o apprec.	1.7%	2.8%	6.2%		12.78
	6.5%				18.24
Equity capital w/apprec.					
Equity capital w/apprec. All capital w/o apprec.	3.8%				10.78

FARM FAMILY FINANCIAL SITUATION BY HERD SIZE 426 New York Dairy Farms, 1987

	426 N	ew York Da	iry Farms,	1987		
Farms with:]	Less than	40 Cows	40 to 5	4 Cows	55 to 6	9 Cows
Item	Jan. 1	Dec. 31	Jan, 1	Dec. 31	Jan. 1	Dec. 31
<u>ASSETS</u>						
Farm cash/chkg./sav.	\$ 2,988	\$ 3,087	\$ 1,764	\$ 2,431	\$ 4,560	\$ 4,362
Accounts receivable	5,451	5,782	7,596	7,669	10,917	11,287
Prepaid expenses	0,451	0,702	,,,,,,,6	6	14	14
Feed & supplies	11,161	12,245	17,453	18,024	24,803	26,963
Livestock*	39,311	42,463	52,858	59,009	74,084	78,802
Machinery & equipment		38,853	52,278	55,305	75,451	78,455
FLB & PCA stock	683	751	1,612	1,731	2,532	2,525
Other stock & cert.	1,225	1,381	1,707	1,888	2,681	2,701
	137,681	141,005	153,697	158,724	197,233	205,744
	\$236,145	\$245,567	\$288,971	\$304,788	\$392,275	\$410,853
Pers. cash/chkg./sav.		\$ 1,907	\$ 3,309	\$ 3,032	\$ 6,011	\$ 6,580
Cash value of life in:		1,567	2,451	3,119	4,122	4,609
Nonfarm real estate	24,316	32,211	4,601	7,939	23,463	31,488
Auto (personal share)		1,032	3,163	3,329	2,479	3,090
Stocks & bonds	637	2,831	2,380	2,405	2,959	3,146
Household furnishings		7,737	8,744	8,750	6,923	7,345
All other	34	5.327	2,955	<u>3,082</u>	1,872	888
Tot. Nonfarm Assets**	\$ 44,219	\$ 52,611	\$ 27,603	\$ 31,656	\$ 47,830	\$ 57,145
Total Farm & Nonfarm						
Assets	\$280,364	\$298,178	\$316,574	\$336,444	\$440,105	\$467,998
LIABILITIES			·			
	\$ 1,797	\$ 1,539	\$ 4,395	\$ 4,184	\$ 3,355	\$ 3,693
Operating debt	1,071	687	1,023	1,014	1,080	819
Short term	213	543	1,079	1,030	2,387	1,837
Advanced gov't. rec.	0	0	2,000	53	52	200
Intermediate***	22,548	22,764	42,818	43,905	42,814	43,353
Long term*	48,256	43,842	77,121	75,139	69,963	72,453
	\$ 73,885	\$ 69,374	\$126,435	\$125,325	\$119,651	\$122,354
Tot. Nonfarm Liab.**	342	86	1,539	2,235	3,078	2,809
Total Farm & Nonfarm						
	\$ 74,227	\$ 69,460	\$127,974	\$127,560	\$122,729	\$125,163
Farm Net Worth	, , ,	,,	,	,,	,,	,,
(Equity Capital)	\$162,261	\$176,193	\$162.536	\$179,463	\$272.624	\$288,499
Farm & Nonfarm		• • • • •	• • • • • •	,,	,	, , .
	\$206,137	\$228,718	\$188,600	\$208,884	\$317,376	\$342,835
<u>FINANCIAL MEASURES</u> Percent equity		<u>Less than</u>	<u>40 Cows 4</u> 72%	<u>0 to 54 Co</u> 59%	ws <u>55 (</u>	<u>o 69 Cows</u> 70%
Debt/asset ratio-long	+ ~ ~~~	0	.31	0.47		0.35
Debt/asset ratio-inte			.24	0.47		0.35
Change in net worth w					¢1	
Total farm debt per co			982	\$16,927 \$2,558		.5,875
Debt payments made per					7	1,912
Debt payments as % of		•	653 33%	\$619 30%		\$502 24 %
Amount avail. for deb					62	1,362
Cash flow coverage rat			.31	\$25,901 1.30	· • • • •	1.29
Cash LLOW COVELage 18	LIG FOL I			1.30		1.27

*Includes discounted lease payments. **Average of farms reporting nonfarm assets and liabilities for 1987. ***Includes FLB/PCA stock and discounted lease payments for cattle and machinery.

Farms with:	70 to	84 Cows	85 to 99 Cows		
Item	<u>Jan, 1</u>	Dec. 31	<u>Jan. 1</u>	Dec, 31	
ASSETS					
Farm cash/chkg./savings	\$ 3,853	\$ 4,783	\$ 5,165	\$ 6,842	
Accounts receivable	13,616	14,094	15,956	16,322	
Prepaid expenses	0	0	42	42	
Feed & supplies	32,595	33,144	39,290	43,702	
Livestock*	91,006	98,832	104,319	114,263	
Machinery & equipment*	92,636	96,188	102,537	109,990	
FLB & PCA stock	3,794	3,942	3,517	3,630	
Other stock & cert.	4,770	5,317	4,175	3,941	
Land & buildings*	226,609	231,725	228,748	_238,936	
Total Farm Assets	\$468,878	\$488,025	\$503,750	\$537,668	
Iotal raim Assets			•		
Pers. cash/chkg./savings	\$ 14,048	\$ 15,373	\$ 18,808	\$ 15,424	
Cash value of life ins.	2,610	2,878	2,534	4,301	
Nonfarm real estate	10,708	11,670	17,682	27,750	
Auto (personal share)	2,746	3,707	1,864	2,545	
Stocks & bonds	1,798	2,060	5,034	5,225	
Household furnishings	6,085	6,508	7,455	7,682	
All other	1,778	1,819	6,685	5,568	
Total Nonfarm Assets**	\$ 39,773	\$ 44,014	\$ 60,062	\$ 68,495	
Total Farm & Nonfarm		• •		• • • • •	
Assets	\$508,651	\$532,039	\$563,812	\$606,163	
	, ,	····		,,	
LIABILITIES		A (AAA	A (AA 7		
Accounts payable	\$ 5,626	\$ 6,299	\$ 4,327	\$ 4,632	
Operating debt	1,414	1,044	3,546	2,551	
Short term	1,997	2,357	2,341	1,896	
Advanced gov't. rec.	0	131	0	0	
Intermediate***	57,651	58,466	86,091	83,656	
Long term*	100,481	<u>95,358</u>	<u> </u>	<u>94,019</u>	
Total Farm Liab.	\$167,170	\$163,655	\$192,968	\$186,754	
Total Nonfarm Liab.**	<u> 2.231</u>	2,193	0	0	
Total Farm & Nonfarm					
Liabilities	\$169,401	\$165,848	\$192,968	\$186,754	
Farm Net Worth					
(Equity Capital)	\$301,709	\$324,369	\$310,782	\$350,913	
Farm & Nonfarm Net Worth	\$339,250	\$366,191	\$370,844	\$419,409	
	• •				
FINANCIAL MEASURES	<u>70</u>	to 84 Cows	<u>85 to</u>	<u>99 Cows</u>	
Percent equity		66%		65%	
Debt/asset ratio-long term		0.41		0.39	
Debt/asset ratio-inter. & c		0.27		0.31	
Change in net worth with ap	prec.	\$22,661		40,132	
Total farm debt per cow		\$2,072		\$2,008	
Debt payments made per cow		\$573		\$596	
Debt payments as % of milk	sales	28%		28%	
Amount avail. for debt serv	rice	\$38,245	\$!	51,041	
Cash flow coverage ratio fo	r 1987	1.28		1.41	

Table 43 (cont'd) FARM FAMILY FINANCIAL SITUATION BY HERD SIZE 426 New York Dairy Farms, 1987

*Includes discounted lease payments. **Average of farms reporting nonfarm assets and liabilities for 1987. ***Includes FLB/PCA stock and discounted lease payments for cattle and

machinery.

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	100 to 149 Cows						
Item	Jan. 1	Dec. 31		Jan. 1	Dec. 31		
ASSETS							
 Farm cash/chkg./savings	\$ 8,425	\$ 11,325	\$	4,975	\$ 8,211		
Accounts receivable	20,959	21,796	•	32,791	34,990		
Prepaid expenses	49	49		27	46		
Feed & supplies	52,784	56,272		78,542	78,949		
Livestock*	142,344	154,411		201,180	220,938		
Machinery & equipment*	132,545	139,451		167,023	177,120		
FLB & PCA stock	6,788	6,712		10,338	10,276		
Other stock & cert.	6,087	6,881		14,209	15,368		
		•			490,415		
Land & buildings*	326,668	334,553	<u>^</u>	464,613			
Total Farm Assets	\$696,649	\$731,449	\$	973,698	\$1,036,313		
Pers. cash/chkg./savings	\$ 4,243	\$ 5,803	\$	5,855	\$5,683		
Cash value of life ins.	4,205	5,000		8,453	8,611		
Nonfarm real estate	45,880	59,987		49,118	67,059		
Auto (personal share)	1,985	1,942		2,518	2,359		
Stocks & bonds	3,932	3,502		13,108	15,000		
Household furnishings	6,500	6,571		10,588	10,912		
All other	3,629	3,138		8,266	21,494		
Total Nonfarm Assets**	\$ 70,374	\$ 85,943	\$	97,905	\$ 131,117		
Total Farm & Nonfarm	φ 70,57 4	ý 05,745	Ŷ	<i>J</i> 7, J0J	φ 131,117		
Assets	\$767,023	\$817,392	¢1	,071,603	\$1,167,430		
Assets	\$707,025	3017,392	ŞT	,071,803	ŞI, 107,430		
<u>LIABILITIES</u>					,		
Accounts payable	\$ 4,154	\$ 3,625	\$	5,559	\$6,350		
Operating debt	1,875	3,241		5,535	5,074		
Short term	2,719	3,074		5,515	4,782		
Advanced gov't. rec.	0	0		0	558		
Intermediate***	92,101	88,843		138,604	143,167		
Long term*	130,697	130,718		213,633	200,919		
Total Farm Liab.	\$231,546	\$229,501	\$	368,847	\$ 360,850		
Total Nonfarm Liab.**	2,230	1,967	•	1,707	1,843		
Total Farm & Nonfarm				• · · ·	·····		
Liabilities	\$233,776	\$231,468	\$	370,554	\$ 362,693		
Farm Net Worth	,,	, , ,	'		1,		
(Equity Capital)	\$465,103	\$501,948	\$	604,850	\$ 675,463		
Farm & Nonfarm Net Worth	\$533,247	\$585,924	Ś	701,049	\$ 804,737		
			Ŧ		• •		
FINANCIAL MEASURES	<u>100</u>	<u>) to 149 Cows</u>		<u>150</u>	to 199 Cows		
Percent equity		69%			65%		
Debt/asset ratio-long term		0.39			0.41		
Debt/asset ratio-inter. &	current	0.25			0.29		
Change in net worth with a	pprec.	\$36,845		\$	70,613		
Total farm debt per cow		\$1,897			\$2,027		
Debt payments made per cow		\$512			\$530		
Debt payments as % of milk	sales	24%			25%		
Amount avail. for debt ser		\$62,095		Ś	90,571		
Cash flow coverage ratio f		1.26		Ŷ	1.35		
Subir 110# COVELAGE TACID I	01 1/0/	1.20			في في ي عد		

Table 43 (cont'd) FARM FAMILY FINANCIAL SITUATION BY HERD SIZE 426 New York Dairy Farms, 1987

*Includes discounted lease payments.

Average of farms reporting nonfarm assets and liabilities for 1987. *Includes FLB/PCA stock and discounted lease payments for cattle and

machinery.

Farms with:	200 t	o 299 Cows	More than 300 Cows		
Item	Jan, 1	Dec. 31	Jan. 1	<u>Dec. 31</u>	
ASSETS					
Farm cash/chkg./savings	\$ 5,533	\$ 6,331	\$ 5,013	\$ 11,348	
Accounts receivable	46,864		86,323	83,269	
Prepaid expenses	40,004		2,156	3,570	
Feed & supplies	98,091	-	225,951	275,171	
Livestock*	284,010		461,034	511,184	
Machinery & equipment*	191,392		321,564	334,952	
FLB & PCA stock	14,980	•	15,414	15,132	
Other stock & cert.	30,591	-	60,604	66,876	
	554,758		992,505	1,077,050	
Land & buildings* Total Farm Assets	\$1,226,219		\$2,170,564	\$2,378,552	
local raim Assecs	ŞI,220,219	91,209,490	şz,170,304	92, 370, 332	
Pers. cash/chkg./savings	\$ 5,556	\$ 5,662	\$ 1,981	\$2,020	
Cash value of life ins.	5,206	5,806	1,450	1,814	
Nonfarm real estate	9,188	22,063	13,250	32,000	
Auto (personal share)	3,969		500	3,669	
Stocks & bonds	7,664	-	17,498	20,591	
Household furnishings	8,000		4,500	8,250	
All other	18,165		13,363	17,399	
Total Nonfarm Assets**	\$ 57,748		\$ 52,541	\$ 85,743	
Total Farm & Nonfarm	• •	. ,			
Assets	\$1,283,967	\$1,360,733	\$2,223,105	\$2,464,295	
LIABILITIES	¢ 17 010	0 0 15 6 20	¢ 05 541	é 11 165	
Accounts payable	\$ 17,018		\$ 25,541	\$ 11,155	
Operating debt	7,171		59,452	78,052	
Short term	16,151		36,860	15,320	
Advanced gov't. rec.			0	0	
Intermediate***	220,564	-	351,692	374,108	
Long term*	247.034		490,540	492,358	
Total Farm Liab.	\$ 507,938		\$ 964,085	\$ 970,992	
Total Nonfarm Liab.**	7,402	5,466	0	0	
Total Farm & Nonfarm	A 515 3/A			A 070 000	
Liabilities	\$ 515,340) \$ 506,451	\$ 964,085	\$ 970,992	
Farm Net Worth	6 710 001	6 700 EAE	A1 007 170	A1 407 540	
(Equity Capital)	\$ 718,281		\$1,206,479	\$1,407,560	
Farm & Nonfarm Net Worth	\$ 768,627	\$ 854,282	\$1,259,020	\$1,493,303	
FINANCIAL MEASURES	2	00 to 299 Cows	More the	<u>an 300 Cows</u>	
Percent equity		61%		59%	
Debt/asset ratio-long term	0.	0.41		0.46	
Debt/asset ratio-inter. &	current	0.37		0.37	
Change in net worth with a	apprec.	\$70,224	\$3	201,081	
Total farm debt per cow		\$2,053		\$2,167	
Debt payments made per cov	4	\$531		\$644	
Debt payments as % of mill		24%		278	
Amount avail. for debt set		\$129,196		273,984	
Cash flow coverage ratio		1.31	T	1.51	

Table	43	(cont'd)	FARM	FAMILY	FINANCIAL	SITUATION	BY HERD	SIZE
				426 1	New York Da	airy Farms	, 1987	

*Includes discounted lease payments. **Average of farms reporting nonfarm assets and liabilities for 1987. ***Includes FLB/PCA stock and discounted lease payments for cattle and

machinery.

Table 44.

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SELECTED BUSINESS FACTORS BY HERD SIZE 426 New York Dairy Farms, 1987

		- ·			
Farms with:	Less than		55 to	70 to	85 to
Item	40 Cows	54 Cows	69 Cows	84 Cows	99 Cows
Number of farms	32	69	74	71	41
Cropping Program Analysis					
Total Tillable acres	108	156	224	256	316
Tillable acres rented*	22	51	71	81	105
Hay crop acres*	71	96	126	136	173
Corn silage acres*	15	27	35	47	56
Hay crop, tons DM/acre	2.1	2.3	2.6	2.6	2.4
Corn silage, tons/acre	12.7	14.5	14.4	15.1	15.4
Oats, bushels/acre	35.5	49.4	60.5	56.7	50.0
Forage DM per cow, tons	6.3	7.7	8.1	8.0	7.8
Tillable acres/cow	3.2	3.3	3.6	3.4	3.5
Fert. & lime exp./til. acre	\$19.21	\$21.94	\$21.92	\$24.11	\$26.57
Total machinery costs	\$12,615	\$18,201	\$26,607	\$33,050	\$38,073
Machinery cost/tillable acre	\$117	\$116	\$119	\$129	\$121
<u>Dairy Analysis</u>	2.2	47	()	77	00
Number of cows	33	47	62	77	90
Number of heifers	22	36	49	63	73
Milk sold, 1bs.	509,393	727,966		1,223,662	
Milk sold/cow, lbs.	15,234	15,380	15,816	•	16,098
Operating cost of prod. milk/c		\$9.31	\$9.49	-	\$8.97
Total cost of prod. milk/cwt.		\$14.74		\$14.04	
Price/cwt. milk sold	\$12.89	\$12.81	\$12.80	-	
Purchased dairy feed/cow	\$537	\$494	\$486	\$506	•
Purchased dairy feed/cwt. milk	\$3.53	\$3.21	\$3.07	\$3.17	\$2.96
Purchased grain & conc. as %					
of milk receipts	26%	24%	23%	: 249	8 23%
Purchased feed & crop					
expense/cwt. milk	\$4.18	\$3.98	\$3.97	\$4.04	\$3.92
Capital Efficiency					
Farm capital/worker	\$155,705	\$154,213	\$163,199	\$170,205	\$173,452
Farm capital/cow	7,203				5,754
Farm capital/til. acre owned	2,801	2,801	2,625	2,718	2,468
Real estate/cow	4,167	3,300	•		
Machinery investment/cow	1,144	1,136	•		
Capital turnover, years	2.76	2.46	2.52	2.37	
sapital talmovel, years	2.70	2.40	L L.	2.37	2.20
Labor Efficiency			. .		
Worker equivalent	1.55	1.93	2.46	2.81	3.00
Operator/manager equivalent	1.04	1.15	1.30	1.28	1.25
Milk sold/worker, lbs.	329,305	378,140	396,964	435,307	485,218
Cows/worker	22	25	25	27	30
Work units/worker	222	258	273	290	323
Labor cost/cow	\$462	\$431	\$436	\$404	\$378
Labor cost/tillable acre	\$143	\$131	\$120	\$121	\$108
	-	•	-		•

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

Table 44 (continued)	SELECTED BUSINES	S FACTORS BY HERD SIZE
	426 New York	Dairy Farms, 1987

Farms with:	100 to	150 to	200 to	300 or
Item	<u>149 Cows</u>	<u>199 Cows</u>	299 Cows	More Cows
Number of farms	70	31	27	11
Cropping Program Analysis				
Total tillable acres	360	524	612	924
Tillable acres rented*	127	240	218	291
Hay crop acres*	190	229	235	302
Corn silage acres*	76	122	187	339
Hay crop, tons DM/acre	2.8	3.0	3.0	3.5
Corn silage, tons/acre	17.2	15.8	17.4	17.6
Oats, bushels/acre	63.6	55.3	52.8	0.0
Forage DM per cow, tons	8.2	7.9	7.7	7.1
Tillable acres/cow	3.0	3.1	2.5	2.1
Fert. & lime exp./til. acre	\$28.94	\$28.09	\$33.44	\$31.89
Total machinery costs	\$51,831	\$77,405	\$93,784	\$151,843
Machinery cost/tillable acre	\$144	\$148	\$153	\$164
<u>Dairy Analysis</u>				
Number of cows	119	171	241	436
Number of heifers	96	136	183	329
Milk sold, 1bs.	1,894,774	2,773,091	4,023,474	8,195,157
Milk sold/cow, lbs.	15,915	16,217	16,710	18,808
Operating cost of prod. milk/cwt.	\$9.25	\$9.62	\$9.61	\$9.04
Total cost of prod. milk/cwt.	\$13.83	\$13.55	\$12.74	\$11.53
Price/cwt. milk sold	\$12.99	\$13.03	\$12.95	\$12.76
Purchased dairy feed/cow	\$485	\$515	\$582	\$640
Purchased dairy feed/cwt. milk	\$3.05	\$3.18	\$3.49	\$3.40
Purchased grain & conc. as %	1	• - •		
of milk receipts	23%	24%	26%	259
Purchased feed & crop	200	2.0	200	
expense/cwt. milk	\$4.06	\$4.12	\$4.40	\$4.17
Capital Efficiency				
	\$201,546	6212 060	6107 022	6026 021
Farm capital/worker		\$212,060	\$197,933	\$234,931
Farm capital/cow	5,998			5,220
Farm capital/til. acre owned	3,065	3,539	3,193	3,593
Real estate/cow	2,777	2,792	2,342	2,375
Machinery investment/cow	1,142	1,006	813	753
Capital turnover, years	2.32	2.08	1.90	1.74
Labor Efficiency				
Worker equivalent	3.54	4.74	6.35	9.68
Operator/manager equivalent	1.49	1.57	1.54	1.43
Milk sold/worker, 1bs.	534,815	585,133	633,126	846,448
Cows/worker	34	36	38	45
Work units/worker	352	375	384	443
Labor cost/cow Labor cost/tillable acre	\$360	\$388	\$386	\$450
	\$119	\$126	\$152	\$212

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

Table 45. COMPARISON OF FARM BUSINESS SUMMARIES FOR 1985, 1986, AND 1987 Same 242 New York Dairy Farms

Item	1985	1986	1987
ACCRUAL EXPENSES			
Hired labor	\$ 22,908	\$ 24,584	\$ 27,785
Feed	47,306	52,424	57,711
Machinery	20,583	19,380	22,034
Livestock	29,553	33,007	33,096
Crops	18,097	15,509	16,153
Real estate	15,459	15,618	17,590
Other	27,989	27,781	27,393
Total Operating	\$181,895	\$188,303	\$201,762
Expansion livestock	2,134	1,453	1,602
Machinery depreciation	17,289	17,158	16,366
Building depreciation	9,157	8,934	9,078
Total Accrual Expenses	\$210,475	\$215,848	\$228,808
ACCRUAL RECEIPTS			
Milk sales	\$204,231	\$214,284	\$228,234
Livestock	21,075	20,233	23,961
Crops	4,059	2,447	6,352
All other	7,432	7,196	10,309
Total Accrual Receipts	\$236,797	\$244,160	\$268,856
PROFITABILITY ANALYSIS			
Net farm income (without appreciation)	\$26,322	\$28,312	\$40,048
Net farm income (with appreciation)	\$24,540	\$44,222	\$65,898
Labor & management income	\$6,329	\$7,918	\$18,130
Number of operators	1.33	1.34	1.32
Labor & management income per operator	\$4,759	\$5,909	\$3,735
BUSINESS FACTORS			
Worker equivalent	3.23	3.27	3.32
Number of cows	99	103	107
Number of heifers	82	85	84
Acres of hay crops*	146	153	153
Acres of corn silage*	77	74	70
Total tillable acres	306	310	315
Pounds of milk sold	1,577,890	1,685,268	1,769,587
Pounds of milk sold per cow	15,955	16,303	16,592
Tons hay crop dry matter per acre	2.7	2.8	2.7
Tons corn silage per acre	15	14	16
Cows per worker	31	32	32
Pounds of milk sold per worker	488,246	515,703	532,361
Percent grain & conc. is of milk receipts		238	24%
Feed & crop expense per cwt. milk	\$4.08	\$3.97	\$4.12
Fertilizer & lime per crop acre	\$33.93	\$26.93	\$27.82
Machinery cost per tillable acre	\$141	\$135	\$140
Average price per cwt. milk	\$12.94	\$12.72	\$12.90

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

- and - and

Table 46.

SELECTED BUSINESS FACTORS BY TYPE OF BARN AND HERD SIZE 426 New York Dairy Farms, 1987

426 New	York Dairy	Farms, 1987		
Farms with:	Convent	ional	Frees	tall
Item	≤60 Cows		≤120 Cows	>120 Cows
Number of farms	117	151	72	86
Cropping Program Analysis				
Total Tillable acres	152	298	265	560
Tillable acres rented*	44	104	89	206
Hay crop acres*	93	167	138	221
Corn silage acres*	25	52	55	159
Hay crop, tons DM/acre	2.3	2.6	2.6	3.1
Corn silage, tons/acre	14.5	15.5	15.7	17.1
Oats, bushels/acre	52.7	59.8	52.1	51.1
Forage DM per cow, tons	7.5	8.2	8.0	7.6
Tillable acres/cow	3.4	3.4	3.2	2.6
Fert. & lime exp./til. acre	\$21.10	\$23,60	\$28.16	\$31.88
Total machinery costs	\$17,902	\$35,641	\$38,982	\$87,013
Machinery cost/tillable acre	\$118	\$120	\$147	\$155
Dairy Analysis				
Number of cows	45	88	83	213
Number of heifers	33	70	68	167
Milk sold, 1bs.	701,939	1,404,638	1,336,813	3,631,580
Milk sold/cow, lbs.	15,446	15,949	16,026	17,012
Operating cost of prod. milk/cwt.		\$9.19	\$9.38	\$9.40
Total cost of prod. milk/cwt.	\$15.12	\$13.76	\$14.31	\$12.77
Price/cwt. milk sold	\$12.82	\$12.78	\$13.04	\$12.93
Purchased dairy feed/cow	\$507	\$496	\$498	\$559
Purchased dairy feed/cwt. milk	\$3.28	\$3.11	\$3.11	\$3.29
Purc, grain & conc. as % milk rec	•	248	23%	24%
Purc. feed & crop exp./cwt. milk	\$4.05	\$3.99	\$4.09	\$4.21
Capital Efficiency				
Farm capital/worker	\$154,317	\$174,550	\$185,631	\$212,849
Farm capital/cow	\$6,467	\$6,056	\$6,166	\$5,522
Farm capital/til. acre owned	\$2,721	\$2,735	\$2,922	\$3,330
Real estate/cow	\$3,436	\$2,910	\$2,858	\$2,528
Machinery investment/cow	\$1,156	\$1,137	\$1,236	\$913
Capital turnover, years	2.51	2.34	2.34	1.96
	2192			1.70
Labor Efficiency				
Worker equivalent	1.90	3.06	2.77	5.54
Operator/manager equivalent	1.14	1.33	1.41	1.48
Milk sold/worker, lbs.	368,557	459,672	482,459	655,667
Cows/worker	24	29	30	39
Work units/worker	248	308	318	393
Labor cost/cow	\$432	\$388	\$393	\$403
Labor cost/tillable acre	\$129	\$115	\$124	\$154
Profitability & Balance Sheet Ana	lysis			
Net farm income (w/o apprec.)	\$14,305	\$31,007	\$27,432	\$77,458
Labor & mgmt. income/operator	\$2,778	\$8,414	\$6,525	\$27,394
Farm debt/cow	\$2,216	\$1,901	\$2,102	\$2,098
Percent equity	65%	69%	66%	62%
	1			

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

Size	Size of Business			of Produ		Labor	Labor Efficiency	
Worker	No.	Pounds	Pounds	Tons	Tons Corn	Cows	Pounds	
Equiv-	of	Milk	Milk Sold	Hay Crop	Silage	Per	Milk Sold	
alent	Cows	Sold	Per Cow	DM/Acre	Per Acre	Worker	Per Worker	
3.1	58	1,012,310	18,894	4.1	25	38	593,294	
2.5	55	890,128	17,803	3.2	20	32	508,786	
2.3	53	890,128	17,100	2.9	18	29	443,085	
	50	777,411		2.9	16	29	424,821	
2.1		•	16,529		15	27		
2.0	48	747,174	16,027	2.4	T)		401,656	
1.8	[′] 46	684,453	15,530	2.2	14	24	375,007	
1.6	43	648,948	14,825	2.0	13	23	344,267	
1.5	39	587,566	14,114	1.8	12	21	324,239	
1.3	35	515,571	12,986	1.6	11	19	281,813	
1.1	29	367,936	10,705	1.2	8	15	205,714	
			Cost	c Control				
Grain	\$	Feed is	Machinery	Labor	& Fee	d & Crop	Feed & Crop	
Bought	c	of Milk	Costs	Machine	ry Exp	penses	Expenses Per	
Per Cow	R	leceipts	Per Cow	<u>Costs</u> Per	Cow Pe	r Cow	Cwt, Milk	
\$239		20%	\$185	\$ 531		\$329	\$2.57	
325		25	256	627		457	3.21	
383		27	300	687		511	3.52	
430		29	335	732		552	3.64	
464		30	367	786		590	3.84	
497		32	398	851		646	4.07	
546		34	437	921		699	4.31	
589		37	475	974		740	4.77	
666 756		39	549	1,057		819	5.11	
		44	640	1,159		953	5.55	
Value	e and C	Cost of Pro	duction		Prof	itability		
Milk		er. Cost	Total Cost	Net Far	m Income			
Receipts		lilk	Production	With	Without	Labor & 1	Mgmt, Income	
Per Cow		er Cwt,	Per Cwt.	Apprec.	Apprec.	Per Farm		
60 E10		5 9/	A11 70	A7/ 550	620 / CC	A05 000	ACO 300	
\$2,512	Ş	5.84	\$11.72	\$74,553	\$39,463	\$25,389		
2,298		6.83	13.04	48,887	29,518	19,481	17,388	
2,208		7.67	13.54	38,477	26,217	13,599	•	
2,129		8.33	14.12	34,212	21,938	9,849	8,406	
2,062		8.89	14.64	30,235	15,948	6,294	5,676	

Table 47. FARM BUSINESS CHART FOR SMALL CONVENTIONAL STALL DAIRY FARM 117 Conventional Stall Dairy Farms with 60 or Less Cows, New York, 1987

15.12

15.82

16.97

18.11

20.88

19,827

15,627

8,111

-4,719

23,800 14,364 2,907

10,674

4,889 -1,628

-14,006

568 -3,763 -10,700

-27,903

2,572

508 -3,179

-9,683

-26,962

j.

9.31

10.01

10.80

11.64

13.39

1,969

1,887

1,774

1,637

1,350

~

Size of Business			Rates	of Produ	ction	Labor	<u>Efficiency</u>
Worker	No.	Pounds	Pounds	Tons	Tons Corn	Cows	Pounds
Equiv-	of	Milk	Milk Sold	Hay Crop	Silage	Per	Milk Sold
alent	Cows	Sold	Per Cow	DM/Acre	Per Acre	Worker	Per Worker
5.6	163	2,674,310	19,172	4.5	22	44	673,277
3.9	112	1,819,161	17,935	3.7	19	37	603,935
3.5	94	1,583,874	17,322	3.2	18	34	555,170
3.1	87	1,425,022	16,735	3.0	17	32	517,283
3.0	82	1,318,364	16,412	2.6	16	30	484,731
2.6	77	1,235,135	16,146	2.5	15	29	463,541
2.5	73	1,145,273	15,545	2.2	14	27	436,780
2.4	69	1,058,575	14,696	2.0	13	25	393,204
2.2	65	969,689	13,740	1.7	12	23	349,386
1.8	61	853,701	11,741	1.4	10	18	271,522

Table 48.FARM BUSINESS CHART FOR LARGE CONVENTIONAL STALL DAIRY FARMS151 Conventional Stall Dairy Farms with More Than 60 Cows, New York, 1987

	Cost Control										
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						
\$202	18%	\$220	\$506	\$341	\$2.34						
295	24	281	605	460	3.03						
369	27	313	669	523	3.46						
418	29	350	723	573	3.68						
455	31	377	760	621	3.92						
510	32	407	797	670	4.16						
548	34	445	863	694	4.34						
591	36	478	938	740	4.54						
656	37	532	1,015	798	4.84						
754	42	677	1,164	893	5.31						

Value	and Cost of Pr	oduction		Prof:	itability	
Milk	Oper. Cost	Total Cost	<u>Net Far</u>	m Income	-	
Receipts	Milk	Production	With	Without	<u>Labor & Mg</u>	<u>mt. Income</u>
<u>Per Cow</u>	Per Cwt.	Per Cwt.	Apprec.	Apprec.	Per Farm	<u>Per Oper.</u>
\$2,452	\$ 6.24	\$11.00	\$110,663	\$78,030	\$54,066	\$41,523
2,323	7.28	11.99	80,747	55,205	34,079	29,685
2,216	7.92	12.47	69,626	46,659	27,268	23,376
2,138	8.35	12.91	58,272	41,337	22,167	16,361
2,092	8.74	13.42	50,783	34,419	16,612	11,210
2,033	9.21	14.00	43,296	27,185	9,802	7,495
1,962	9.65	14.49	35,577	21,584	2,691	1,833
1,902	10.19	14.99	27,732	14,827	-4,619	-3,704
1,750	10.87	15.90	19,127	8,686	-10,022	-8,233
1,517	12.97	19.22	-2,597	-14,835	-36,963	-33,558

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Size	of Bus	iness	<u>Rate</u>	<u>s of Produ</u>			Efficiency
Worker	No.	Pounds	Pounds	Tons	Tons Co	rn Cows	Pounds
Equiv-	of	Milk	Milk Sold	Hay Crop	Silage	Per	Milk Sold
alent	Cows	Sold	Per Cow	DM/Acre	Per Acr	e Worker	Per Worker
4.0	113	2,031,232	19,930	4.5	28	49	779,317
3.4	107	1,778,804	18,585	3.6	20	41	631,701
3.2	101	1,597,490	18,005	3.2	19	34	547,217
3.0	95	1,548,436	17,433	3.0	18	32	503,134
2.9	87	1,460,707	16,469	2.7	17	30	486,247
2.7	81	1,360,485	15,965	2.5	16	29	463,207
2.5	76	1,188,903	15,526	2.3	15	27	443,127
2.3	72	1,016,927	14,898	2.1	13	26	418,694
2.1	64	867,848	13,759	1.9	11	24	373,532
1.7	48	678,354	10,362	1.4	8	20	289,432
				·			
~ •				t Control			
Grain		Feed is	Machinery	Labor		eed & Crop	Feed & Crop
Bought		f Milk	Costs	Machine	~	Expenses	Expenses Per
<u>Per Cow</u>	R	eceipts	Per Cow	<u>Costs</u> Per	Cow	Per Cow	<u>Cwt. Milk</u>
\$197		19%	\$267	\$ 567		\$ 361	\$2.49
322		23	311	667		479	3,05
378		25	335	727		535	3.31
426		28	363	788		568	3.64
470		31	407	829		627	3.96
508		32	462	887		690	4.31
541		35	514	928		722	4,63
594		37	550	979		768	4.92
666		40	613	1,071		845	5,13
831		49	870	1,307		1,024	6.23

Table 49.FARM BUSINESS CHART FOR SMALL FREESTALL DAIRY FARMS72 Freestall Barn Dairy Farms with 120 or Less Cows, New York, 1987

Value	and Cost of Pr	oduction		Prof	itability	
Milk	Oper. Cost	Total Cost	<u>Net Far</u>	n Income		
Receipts	Milk	Production	With	Without	<u>Labor & Mg</u>	mt. Income
<u>Per Cow</u>	<u>Per Cwt.</u>	Per Cwt.	Apprec.	Apprec.	Per Farm	Per Oper.
\$2,594	\$ 6.29	\$11.99	\$108,959	\$85,873	\$61,245	\$34,091
2,419	7.89	12.78	78,885	55,778	32,705	22,189
2,293	8.32	13.07	64,609	42,618	21,656	16,354
2,225	8.81	13.49	57,524	32,163	16,779	12,477
2,168	9.22	13.93	51,908	29,625	12,551	9,268
2,075 2,016 1,968 1,798 1,384	9.44 10.16 10.96 11.89 13.58	14.32 15.03 16.09 17.13 20.29	45,040 35,648 26,102 18,387 -5,701	26,072 20,544 13,664 610 -21,765	8,294 5,663 -3,715 -15,345 -38,033	6,544 4,359 -3,493 -11,684 -33,341

Size of Business			Rates	of Produ	ction	Labor Efficiency		
Worker	No.	Pounds	Pounds	Tons	Tons Corn	Cows	Pounds	
Equiv-	of	Milk	Milk Sold	Hay Crop	Silage	Per	Milk Sold	
alent	Cows	Sold	Per Cow	DM/Acre	Per Acre	Worker	<u>Per Worker</u>	
11.5	475	9,122,233	20,926	5.0	23	59	978,334	
7.5	303	5,443,620	19,082	4.0	20	48	831,859	
6.4	253	4,155,570	17,701	3.7	19	45	741,638	
5.8	217	3,557,779	17,409	3.5	18	41	682,912	
5.2	198	3,195,642	16,973	3.2	18	39	641,707	
4.8	176	2,895,944	16,268	3.0	17	37	611,788	
4.4	158	2,599,715	15,691	3.9	16	35	572,578	
4.0	144	2,349,436	15,355	2.6	15	32	530,718	
3.6	132	2,078,626	14,712	2.3	14	30	486,868	
3.2	123	1,778,664	12,906	1.7	11	26	421,041	

Table 50.FARM BUSINESS CHART FOR LARGE FREESTALL DAIRY FARMS86 Freestall Barn Dairy Farms with More Than 120 Cows, New York, 1987

	Cost Control										
Grain Bought Per Cow	% Feed is of Milk Receipts	Machinery Costs Per Cow	Labor & Machinery Costs Per Cow	Feed & Crop Expenses Per Cow	Feed & Crop Expenses Per Cwt. Milk						
\$211	21%	\$269	\$ 547	\$415	\$2.67						
354	26	312	675	529	3.31						
434	27	345	704	592	3.63						
466	30	378	743	651	3.87						
494	33	405	787	692	4.17						
531	34	433	834	722	4.36						
571	35	464	883	775	4.59						
638	37	490	940	813	4.82						
691	39	541	1,018	858	5.10						
766	43	690	1,177	932	5.69						

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Value	and Cost of Pr	oduction		Prof	itability	
Milk	Oper. Cost	Total Cost	<u>Net Far</u>	<u>m Income</u>		
Receipts	Milk	Production	With	Without	<u>Labor & Mg</u>	<u>mt. Income</u>
<u>Per Cow</u>	Per Cwt.	Per Cwt.	Apprec.	Apprec.	Per Farm	Per Oper.
\$2,650	\$ 6.33	\$10.56	\$371,960	\$269,426	\$207,317	\$167,283
2,442	7,76	11.72	211,706	146,148	95,881	69,329
2,349	8.66	12.22	166,309	105,100	63,094	44,853
2,280	9.18	12.53	127,460	77,994	42,020	31,897
2,205	9.44	13.14	99,991	66,929	33,156	22,003
2,146 2,032 1,968 1,891	9.75 10.11 10.54 11.03	13.66 13.97 14.35 14.90	89,278 82,461 64,958 48,918	54,629 41,867 30,225 19,518	22,169 16,389 5,583 -7,955	17,498 9,426 3,831 -7,224
1,709	12.11	16.25	17,051	-5,150	-44,860	-35,341

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**************************************	282	120	24
Item	Single Prop.	Partnerships	Corporations
ACCRUAL EXPENSES			
Hired labor	\$ 21,192	\$ 23,962	\$ 66,452
Feed	46,090	64,763	89,656
Machinery	17,922	23,914	41,466
Livestock	26,354	34,704	62,430
Crops	11,944	18,257	31,721
Real estate	13,841	19,087	40,459
Other	24,198	<u> 29,441</u>	42,021
Total Operating Expenses	\$161,541	\$214,128	\$374,205
Expansion livestock	1,254	2,387	3,687
Machinery depreciation	12,556	18,953	32,615
Building depreciation	6,487	9,490	<u> 19,989</u>
Total Accrual Expenses	\$181,838	\$244,958	\$430,496
ACCRUAL RECEIPTS			
Milk sales	\$179,437	\$245,907	\$436,170
Livestock	18,215	28,099	42,796
Crops	2,837	8,109	11,692
All other	6,698	10,728	27,179
Total Accrual Receipts	\$207,186	\$292,842	\$517,838
PROFITABILITY ANALYSIS			
Net farm income (without appreciation)	\$25,348	\$47,884	\$87,342
Net farm income (with appreciation)	\$45,513	\$73,061	\$130,190
Labor & management income	\$7,874	\$24,536	\$43,445
Number of operators	1.01	1.97	1.68
Labor & management income per operator	\$7,796	\$12,455	\$25,860
BUSINESS_FACTORS			
Worker equivalent	2.84	3.69	4.88
Number of cows	87	117	189
Number of heifers	68	91	148
Acres of hay crops*	140	170	221
Acres of corn silage*	57	78	129
Total tillable acres	260	360	563

FARM BUSINESS SUMMARIES FOR SINGLE PROPRIETORSHIPS, Table 51. PARTNERSHIPS, AND CORPORATIONS

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

Pounds of milk sold

Cows per worker

Pounds of milk sold per cow

Tons corn silage per acre

Tons hay crop dry matter per acre

Fertilizer & lime per crop acre

Machinery cost per tillable acre

Average price per cwt. milk

Pounds of milk sold per worker 4 Purc. grain & conc. as % of milk receipts

Feed & crop expense per cwt. milk

1,394,695

16,124

491,476

2.7

16.0

30

25%

\$4.11

\$135

\$25.91

\$12.87

1,916,626

16,377

519,567

2.6

16.5

32

25%

\$4.27

\$136

\$28.03

\$12.83

3,312,266

17,494

678,473

3.4

39

19%

\$3.64

\$150

\$29.52

\$13.17

16.4

Table	52.	FARM	FAMILY	FINANCIAL	SITUATION	FOR	SINGLE	PROPRIETORSHIPS	5,
				PARTNE	RSHIPS, AND) COE	RPORATIO	ONS	
				426 Nev	V York Dain	cy Fa	arms, 19	987	

	426 1	New York D	airy Farms	s, 1987				
Farms with:	282 Sin	gle Prop.	120 Part	<u>tnerships</u>	24 Corr	24 Corporations		
Item		Dec. 31		<u>Dec. 31</u>	Jan, 1			
ASSETS								
Farm cash/chkg./sav.	\$ 3,711	\$ 4,593	\$ 5,462	\$ 6,689	\$ 11,942	\$ 18,941		
Accounts receivable	15,412	• •	21,663	• •	36,668	39,129		
Prepaid expenses	13,412		21,005		120	249		
Feed & supplies	35,396		51,411	58,578	101,439			
Livestock*	101,536	•	137,264		206,730	222,662		
Machinery & equip.*	88,637		120,301	124,466	204,382	206,984		
FLB & PCA stock	4,178	•	5,840	5,946	9,357	8,648		
Other stock & cert.	5,470	•	9,610	-	22,035	25,445		
Land & buildings*	240,619	•	311,409		542,348	<u>572,201</u>		
Total Farm Assets	\$494,972				\$1,135,021			
IOTAL FAIM ASSECS	9494,972	9322,733	Ş005,107	QU99, 544	VI, 133, 021	91,200,755		
Pers. cash/chkg./sav	[.] \$ 8,837	\$ 8,458	\$ 3,364	\$ 3,635	\$ 8,799	\$ 8,369		
Cash value life ins.	3,616	4,278	2,303	2,604	4,427	4,460		
Nonfarm real estate	16,842	24,544	31,686	41,806	53,250	53,250		
Auto (personal share) 2,457	2,834	3,311	3,501	1,050	2,200		
Stocks & bonds	3,709	4,261	4,697	4,784	5,712	6,162		
Household furnishing	s 7,747	8,127	6,569	6,681	3,800	3,800		
All other	4.494	5,459	2,026	1.857	<u> </u>	8,479		
Tot. Nonfarm Assets*	*\$ 47,703	\$ 57,961	\$ 53,957	\$ 64,869	\$ 82,433	\$ 86,720		
Total Farm & Nonfarm	ł							
Assets	\$542,675	\$580,694	\$717,124	\$764,213	\$1,217,454	\$1,293,453		
LIABILITIES								
Accounts payable	\$ 5,244	\$ 4,817	\$ 5,838	\$ 5,439	\$ 8,753	\$ 9,707		
Operating debt	2,440		5,964		7,392			
Short term	3,033		6,224		4,014	•		
Advanced gov't. rec.	•		0,224	4,905	4,014	•		
Intermediate***	71,281		89,876		-			
Long term*		112,890	126,373					
Total Farm Liab.		\$197,739		\$230,070				
Total Nonfarm Liab.*			5,393					
Total Farm & Nonfarm		1.//0		4,391	0	0		
Liabilities		\$199,517	\$220 667	\$234,461	\$319,092	6202 500		
Farm Net Worth	9199,977	Ş199,J17	ş239,007	ŞZJ4,401	ŞJ19,092	\$303,598		
	6006 606	620/ 00/	\$428,893	6160 071	CO15 000	0000 105		
(Equity Capital)	3290,090	Ş324,994	3420,093	\$409,274	\$815,929	\$903,135		
Farm & Nonfarm	6349 609	A301 177	AL77 / 67	A500 750	6000 2C0	0000 055		
Net Worth	\$342,698	\$381,177	\$477,457	\$529,752	\$898,362	\$989,855		
FINANCIAL MEASURES		2	82 Single	Prop.	<u>120 Partner</u>	<u>. 24 Corp.</u>		
Percent equity			63	28	67%	75€		
Debt/asset ratio-lon	ng term		0.4	5	0.38	0.22		
Debt/asset ratio-int	er. & cur	rent	0.3	1	0.28	0.28		
Change in net worth	with appro	ec.	\$28,29	В	\$40,381	\$87,206		
Total farm debt per	COW		\$2,22	2	\$1,917	\$1,581		
Debt payments made p	er cow		\$550	0	\$509	\$632		
Debt payments as % o	f milk sat	les	2	78	25%	27%		
Amount avail. for de	bt service	е	\$45,220	5	\$45,264	\$155,276		
Cash flow coverage r	atio for 3	1987	1.24	4	1.27	1.66		

*Includes discounted lease payments. **Average of 213 single proprietorships reporting nonfarm assets and liabilities, 36 partnerships, and 10 corporations. ***Includes FLB/PCA stock & discounted lease payments for cattle & machinery.

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Tab	10	53	
Tab	10	JJ.	

SELECTED BUSINESS FACTORS BY MILKING SYSTEMS 423 New York Dairy Farms, 1987

423 New York L		,	Vorringhone	Other
Thom	Dumping Station	Pipeline	Herringbone Parlor	
Item	Station	ripetille	ration	rations
Number of farms	31	226	147	19
Percent of farms	78	53%	35%	5%
<u>Cropping Program Analysis</u>				
Total Tillable acres	205	233	433	371
Tillable acres rented*	70	77	148	173
Hay crop acres*	120	133	190	159
Corn silage acres*	28	42	115	69
Hay crop, tons DM/acre	1.8	2.6	2.9	2.9
Corn silage, tons/acre	14.0	15.4	16.7	16.9
Oats, bushels/acre	51.3	60.4	53.4	41.4
Forage DM per cow, tons	7.3	8.0	7.7	7.5
Tillable acres/cow	4.3	3.3	2.8	3.1
Fert. & lime exp./tillable acre		\$24.51		
Total machinery costs	\$15,271			
Machinery cost/tillable acre	\$74	\$126	\$152	\$131
	¥ · · ·	4220	4202	7202
<u>Dairy Analysis</u>				
Number of cows	48	71	157	119
Number of heifers	33	56	123	98
Milk sold, 1bs.	657,157	1,140,101	2,631,373 1	,920,316
Milk sold/cow, lbs.		16,048		· •
Oper. cost of prod. milk/cwt.		\$9.26		
Total cost of prod. milk/cwt.		\$14.15		
Price/cwt. milk sold		\$12.81		*
Purchased dairy feed/cow		\$503	•	
Purchased dairy feed/cwt. milk	\$3.27	-		•
Purc. grain & conc. as % milk receipts	25%	-		21%
Purc. feed & crop expense/cwt. milk	\$3.99	\$4.00	\$4.22	\$3.77
<u>Capital Efficiency</u>				
Farm capital/worker	\$130 033	\$174,290	\$204,476	\$172,651
Farm capital/cow	5,806			5,672
÷ ,				
Farm capital/tillable acre owned	2,049		3,119	
Real estate/cow	3,182	3,090	2,606	2,517
Machinery investment/cow	946	•		-
Capital turnover, years	2.56	2.40	2.03	2.17
Labor Efficiency				
Worker equivalent	2.11	2.56	4.35	3.90
Operator/manager equivalent	1.28	1.24	1.43	1.52
Milk sold/worker, lbs.	311,021	446,169	605,339	492,499
Cows/worker	23	28	36	492,499 30
Work units/worker	242	295	371	318
Labor cost/cow	\$476	\$394	\$394	\$466
Labor cost/tillable acre	\$111	\$120	\$143	\$149
Profitability & Balance Sheet Analysis				
Net farm income (w/o apprec.)	\$15,725	\$24,197	\$55,129	\$46,671
Labor & mgmt. income/operator	\$3,741	\$6,203	\$18,541	\$14,138
Farm debt/cow	\$1,953	\$2,043	\$2,096	\$1,738
Percent equity	64%			ې <u>ر</u> ,708

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

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COMPARISON OF DAIRY FARM BUSINESS DATA BY REGION 426 New York Dairy Farms, 1987

		Re	gion*	
Item	1	2	3	4
Number of farms	148	101	70	107
ACCRUAL EXPENSES	140	101	70	107
Hired labor	\$ 18,490	\$ 44,977	\$ 15,644	\$ 19,366
Feed	3 18,490 46,174	3 44,977 77,881	46,881	46,158
	17,845	31,984	15,232	18,515
Machinery Livestock	24,765	42,939	23,083	32,495
	12,883	23,841	9,844	12,307
Crops Pagl astate	12,885		,844 13,173	15,042
Real estate	22,292	25,697		22,969
Other		40.624	21.503	
Total Operating	\$156,219	\$287,943	\$145,360	\$166,852
Expansion livestock	1,152	3,561	386	1,602
Machinery depreciation	12,634	23,479	15,076	12,161
Building depreciation	7,123	13,319	5.634	6,111
Total Accrual Expenses	\$177,128	\$328,302	\$166,456	\$186,726
ACCRUAL RECEIPTS	A175 000	A	A1 (A A A A A	A100 000
Milk sales	\$175,003	\$321,089	\$168,990	\$190,826
Livestock	18,925	36,768	18,103	16,395
Crops	3,050	13,120	2,965	651
All other	6,602	16,418	6,064	7.182
Total Accrual Receipts	\$203,580	\$ 387,395 ,	\$196,122	\$215,054
PROFITABILITY ANALYSIS	AA6 15A	A.C.A. A.A.A.	AAA	
Net farm income (w/o appreciation)		\$59,093	\$29,666	\$28,328
Net farm income (w/appreciation)	\$47,197	\$88,191	\$44,383	\$53,531
Labor & management income	\$7,906	\$31,931	\$14,361	\$7,549
Number of operators	1.26	1.41	1.28	1.35
Labor & management income/operator BUSINESS FACTORS		\$22,646	\$11,219	\$5,592
Worker equivalent	2.91	4.23	2.69	2.94
Number of cows	86	146	84	90
Number of heifers	67	119	69	65
Acres of hay crops**	145	168	160	144
Acres of corn silage**	54	103	55	58
Total tillable acres	270	435	254	266
Pounds of milk sold	1,371,863	2,516,447	1,341,666	1,417,569
Pounds of milk sold/cow	15,948	17,227	15,891	15,823
Tons hay crop dry matter/acre	2.6	3.0	2.5	2.7
Tons corn silage/acre	16.7	17.3	15.7	14.0
Cows/worker	30	35	31	30
Pounds of milk sold/worker	472,176	595,341	498,893	481,651
Percent grain & conc.				,
is of milk receipts	25%	23୫	26%	23%
Feed & crop expense/cwt. milk	\$4.23	\$4.01	\$4.13	\$4.10
Fertilizer & lime/crop acre	\$27.68	\$28.46	\$21.98	\$26.91
Machinery cost/tillable acre	\$130	\$145	\$137	\$134
Average price/cwt. milk	\$12.76	\$12.76	\$12.60	\$13.46
Average price/cwc. mirk	¥12.70	Q12.70	912.00	Q10.40

*Region 1 includes the Western and Eastern Plateau counties identified in Figure 1, page 2, plus Sullivan County; Region 2 includes Western Plain, Central New York, and Central Plain counties; Region 3 is the Northern New York counties; and Region 4 includes Oneida-Mohawk, Northern Hudson, and Southeastern New York counties excluding Sullivan.

**Average of all farms in the region, not only those producing the crop.

TEN YEAR COMPARISON: SELECTED BUSINESS FACTORS New York Dairy Farms, 1978 to 1987

Item	1978	1979	1980	. 1981	1982	1983	1984	1985	1986	1987
Number of farms	527	610	600	553	572	510	458	404	414	426
Cropping Program										
Total tillable ac	res 217	228	246	257	262	272	280	280	288	305
Tillable acres re		58	76	83	83	91	94	9 3	100	105
Hay crop acres	128	129	131	131	135	139	143	142	147	153
Corn silage acres	63	62	60	59	70	72	76	69	67	67
Hay crop,										
tons DM/acre	2.4	2.7	2.5	2.5	2.6	2.5	2.7	2.7	2.7	2.7
Corn silage,										
tons/acre	13.9	13.6	14.5	14.9	14.0	13.5	14.0	14.3	14.3	16.2
Fert. & lime exp.										
/tillable acre	\$24	\$29	\$29	\$32	\$33	\$31	\$32	\$32	\$26	\$27
Machinery cost/co		\$344	\$425	\$465	\$432	\$413	\$433	\$426	\$400	\$413
Dairy Analysis		40.11	4.20	4.05	¥	4,120	¥100	4.20	4	• • • • • •
Number of cows	71	75 [.]	75	79	82	88	89	89	95	101
Number of heifers		53	56	59	67	72	76	73	77	79
Milk sold, cwt.	9,795	10,698	10,761	11,420	12,105	13,432	13,735	14,001	15,374	16,498
Milk sold/cow, 1b		14,264	14,300	14,456	14,762	15,264	15,433	15,679	16,237	16,351
Purchased dairy	0.10,770	14,204	24,000	14,400	14,702	10,204	10,400	15,075	10,207	,
feed/cwt. milk	\$2.96	\$3.27	\$3.47	\$3.51	\$3.27	\$3.44	\$3.28	\$3,04	\$3.10	\$3.21
Purc. grain & con		44.44	4-111	40.02	¥0.2,	4 0.111	40.20	40,0	1	
as % milk recei		27%	27%	26%	24%	25%	24%	23%	24%	249
Purc. feed & crop				200	2.0	200	2.0			
exp./cwt. milk	\$3.81	\$4.24	\$4.49	\$4.67	\$4.53	\$4.62	\$4.53	\$4.13	\$4.00	\$4.11
Capital Efficienc		···-·	4 · • · · ·	4	+	+	¥1100	+ + + = = =	•••••	• • • • • • •
Farm capital/cow	\$4,477	\$5,063	\$5,539	\$5,676	\$5,517	\$5,421	\$5,520	\$5,801	\$5,792	\$5,894
Real estate/cow	\$2,278	\$2,437	\$2,602	\$2,693	\$2,664	\$2,668	\$2,731	\$2,726	\$2,758	\$2,805
Mach. invest./cow		\$911	\$1,015	\$1,078	\$1,047	\$1,038	\$1,057	\$1,083	\$1,062	\$1,057
Capital turnover,		2.3	2.2	2.4	2.5	2.4	2.3	2.5	2.3	2.2
Labor Efficiency	<i>J</i> 20, 2, 5			211	2.5		2.5	2.15	210	
Worker equivalent	2.40	2.70	2.70	2.75	2.83	3.00	3.08	3.17	3.17	3.19
Operator/manager		1.20	1.30	1.25	1.30	1.32	1.31	1.34	1.33	1.32
Milk sold/worker,		1.20	2.00	1.00	1.00	1.52	1.51	1,54	1.55	
lbs.	404,800	400,674	403,000	415,273	427,739	447,733	445,942	442,125	497,555	516,728
Cows/worker	29	28	28	29	29	29	29	28	31	32
Labor cost/cow	\$268	\$289	\$326	\$335	\$352	\$344	\$366	\$387	\$385	\$400
Profitability & F			<i>4320</i>	4222	4332	4244	4300	4307	φ505	¥+00
Labor & mgmt.	Luanolal f	MIGT 1919								
income/oper.	\$6,778	\$7,598	\$1,565	\$-4,261	\$3,451	\$5,514	\$2,262	\$2,850	\$3,837	\$11,042
	\$211,680	\$261,398	\$288,022	\$301,975	\$306,589	\$322,001	\$2,202	\$2,850 \$325,664	\$348,909	\$398,209
Percent equity	Ş∠II,080 65¥	\$201,398 65%	\$200,022 66%	\$301,975 64%	\$308,389 63%	\$322,001 63 %	\$336,210 64%	\$323,004 63%	\$346,909 62%	\$390,209 659
forcent equily	0.74	0.74	004	046	0.74	0.74	048	0.74	0216	0.01

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Item	1978	1979	1980	1981	1982	1983	1984	1985*	1986*	1987*
Cash Operating Expenses										
Hired labor	\$.89	\$.99	\$ 1.09	\$ 1.20	\$ 1.29	\$ 1.25	\$ 1.39	\$ 1.38	\$ 1.38	\$ 1.49
Purchased feed	3.11	3.37	3,60	3.62	3.40	3.59	3.46	3.10	3.21	3.30
Machinery repairs & rent	.65	. 69	.75	.81	.81	.77	.80	.79	.75	. 88
Auto expenses (farm share)	. 04	.04	.04	.04	. 04	.04	.03	.03	.04	.04
Fuel, oil & grease	. 34	.43	.54	.62	. 59	.49	. 50	.48	. 34	.35
Replacement livestock	. 36	.50	. 29	.23	.19	.16	.10	.10	.13	.13
Breeding fees	.13	.15	.16	.18	.19	.19	. 20	.20	.19	.19
Veterinary & medicine	.19	.22	.24	. 28	.29	.28	. 29	.27	.28	. 28
Other dairy expenses	.67	.74	. 82	. 89	1.02	1.47	1.58	1.33	1.37	1.27
Lime & fertilizer	.53	. 62	.66	. 72	.71	.63	.66	.62	.48	.51
Seeds & plants	.18	. 20	. 20	.23	.23	.21	. 22	.24	.22	.21
Spray & other crop expense	.13	.16	.16	.21	.18	.19	.20	.23	.19	. 20
Land, building, fence repair	.19	.21	.21	. 22	.21	.18	.18	.17	.16	.20
Taxes	.27	. 28	.31	. 35	.34	.34	.33	. 34	.33	. 35
Insurance	.18	.20	.24	.23	.23	.21	.20	.22	.22	. 22
Telephone (farm share)	. 04	.04	.04	.05	.05	.05	.04	.05	.05	.04
Electricity (farm share)	.19	. 21	.24	.27	.30	. 31	. 32	. 32	.34	.34
Interest paid	.83	1.00	1.17	1.43	1.54	1.40	1.40	1.25	1.18	1.04
Misc. (including rent)	. 28	.31	.37	.41	.43	.44	.44	.40	.41	.45
Total	\$ 9.20	\$10.36	\$11.13	\$11.99	\$12.04	\$12.20	\$12.34	\$11.52	\$11.27	\$11.49
Overhead Expenses	•		•		·	•	•	,	•	·
Depreciation: mach. & bldgs.	\$.94	\$ 1.06	\$ 1.43	\$ 1.56	\$ 1.60	\$ 1.56	\$ 1.65	\$ 1.64	\$ 1.54	\$ 1.43
Unpaid labor	.13	.13	.14	.14	.14	.12	.12	.12	.13	.10
Operator(s) labor	.93	.91	1.05	.99	.93	.89	. 87	.97	.86	.87
Operator(s) management	.60	.68	.72	.76	.75	.76	.76	.72	.71	.74
Interest on farm eq. cap. (5%)	1.08	1.22	1.34	1.32	1.27	1.20	1.22	1.16	1.10	1.15
Total	\$ 3.68	\$ 4.00	\$ 4.68	\$ 4.77	\$ 4.69	\$ 4.53	\$ 4.62	\$ 4.61	\$ 4.34	\$ 4.28
Gross Farm Operating Cost	\$12.88	\$14.36	\$15.81	\$16.76	\$16.73	\$16.73	\$16.96	\$16.13	\$15.61	\$15.77
Less: Non-milk cash receipts	1.46	1.78	1.67	1.58	1.47	1.49	1.74	1.58	1.52	1.84
Increase in feed & supplies	.40	.40	.43	.11	.03	.26	.18	.06	.07	. 23
Increase in livestock	.11	. 38	. 39		. 35	.24	.16	.18	. 12	.10
TOTAL COST OF MILK PRODUCTION	\$10.91	\$11.80	\$13.32	\$14.82	\$14.88	\$14.74	\$14.88	\$14.31	\$13.90	\$13.60
OPERATING COST OF MILK PRODUCTION	\$7.23	\$7.80	\$8.64	\$10.05	\$10.19	\$10.21	\$10.26	\$9.70	\$9.56	\$9.32
AVERAGE FARM PRICE OF MILK	\$10.51	\$11.90	\$12.81	\$13.66	\$13.56	\$13.64	\$13.49	\$12.90	\$12.65	\$12.89
Return per cwt. to operator labor	•	,	. = =	• • • • •	, ·	1		4		1
capital, & management	, \$2.21	\$2.91	\$2.60	\$1.91	\$1.63	\$1.75	\$1.46	\$1.44	\$1.42	\$2.05
Rate of return on farm eq. cap.	3.1%	•	•				-0.7%		-0.7%	1.9

TEN YEAR COMPARISON: AVERAGE COST OF PRODUCING MILK PER HUNDREDWEIGHT* New York Dairy Farms, 1978 to 1987

Table 56.

*Includes cash expenses plus changes in accounts payable and cash receipts plus changes in accounts receivable.

Table 57.	FARM BUSINESS SUMMARY	AND FARM FAMILY	FINANCIAL SITUATION
	14 New York	Dairy-Cash Crop	Farms,* 1987

$\begin{array}{llllllllllllllllllllllllllllllllllll$			• · ·	
Labor: Hired\$ 18,957Milk sales $$ 18,957$ Milk sales $$ 16,969$ Pead: Dairy cuyhage51Dairy calves3,292Other livestock81Other livestock324Machinery: Mach. hire/rent/lease3,461Crops35,004Machinery: Mach. hire/rent/lease3,461Crops35,004Machinery: Mach. hire/rent/lease3,461Crops35,004Mato expense (farm share)318Custom machine work1,327Auto expense (farm share)308- Nonfarm noncash capital(.)Ilvestock: Replacement lvsk.4,826Other2,952Vet & medicine4,939TOTAL ACCRUAL RECEIPTS\$271,222Wilk marketing11,099TOTAL ACCRUAL RECEIPTS\$271,222Gorops: Fertilizer & lime16,184Labor & mgt. income/perc.)\$51,733Seeds & plants5,565Number of operators1.63Seeds & plants5,564Number of cows92Generepair2,974capital including apprec.\$23,368Rent & lease9,071Number of feirers72Tolephone (farm share)4,861Total tillable acres505Interest paid11,873Milk sold per cow, lbs.15,660Miscellaneous2,886Hay DM per acre, tons3.0TOTAL OPERATING EXPENSES\$183,240Corn sliage per acre, tons1.8.1Starge other cory bls.5,75780,055Intermediate***64,099,983Total AccRUAL EXPENSES\$210,013<	ACCRUAL EXPENSES		ACCRUAL RECEIPTS	
	Labor: Hired	\$ 18,957	Milk sales	\$189,467
Dairy roughage 51 Dairy calves 3,292 Other livestock 81 Other livestock 324 Machinery: Mach. hire/rent/lease 3,461 Crops 35,004 Mach. repairs/parts 13,993 Government receipts 21,571 Auto expense (farm share) 318 Custom machine work 1,327 Fuel, oil, grease 7,980 Gas tax refund 316 Livestock: Replacement lvsk. 4,826 Other 2,952 Vet & medicine 4,939 TOTAL ACCRUAL RECEIPTS \$271,222 Milk marketing 11,099 PROFITABILITY ANALYSIS \$271,222 Grops: Fertilizer 6 lime 16,184 Net farm inc. (w/a pprec.) \$61,209 Mother of operators 1.63 Labor 6 mgt. income/farm \$38,089 Seeds 6 plants 5,565 Number of cores 92 Insurance 3,564 BUSINESS FACTORS \$23,368 Rent 6 lease 9,071 Number of cores 92 Other 1: westock 18,87 Number of cores 92 Insurance 2,886 Hay DM per acre, tons 3.14 El	Feed: Dairy grain & conc.	35,673	Dairy cattle	16,969
Machinery:Mach. hire/rent/lease 3,461Crops35,004Mach. repairs/parts13,993Government receipts21,571Auto expense (farm share)318Custom machine work1,327Fuel, oil, grease7,980Gas tax refund316Livestock: Replacement lvsk.4,826Other2,952Preeding3,083- Nonfarm noncash capital(-)0Vet & medicine4,939TOTAL ACCRUAL RECEIPTS\$271,222Milk marketing11,099Net farm inc. (w/o apprec.)\$61,209Cattle lease/rent0Net farm inc. (w/o apprec.)\$61,209Other livestock expense10,568Net farm inc. (w/o apprec.)\$61,209Seeds & plants5,565Number of operators1.63Seeds & plants5,565Number of covers92Insurance3,564BUSINESS FACTORSRent & lease9,071Number of covs92Other:Number of heifers72Telephone (farm share)5.59Worker equivalent3.14Milk sold per worker, lbs.15,660Miscilaneous2.886HayD M per acre, tons3.0TOTAL OPERATING EXPENSES\$210,013Average price/cvt. milk\$4.38SetsJan.1Dec.31LiABILITIESJan.1Dec.31Misk sold per worker, lbs.\$21,6667,972Accounts payable\$4,013\$2.394Accounts receivable20,86621,883Operating debt640935Prepaid depreciation <td< td=""><td></td><td>51</td><td>Dairy calves</td><td>3,292</td></td<>		51	Dairy calves	3,292
Mach. repairs/parts 13,993 Government receipts 21,571 Auto expense (farm share) 318 Custom machine work 1,327 Auto expense (farm share) 318 Custom machine work 1,327 Auto expense (farm share) 308 Custom machine work 1,327 Livestock: Replacement lvstk. 4,820 Other 2,952 Wilk marketing 10,099 TOTAL ACCRUAL RECEIPTS \$271,222 Milk marketing 10,099 PROFITABILITY ANALYSIS \$261,209 Gast La lease/rent 0 Net farm inc. (w/apprec.) \$61,209 Grong: Fertilizer & lime 5,565 Labor & mgt. income/farm \$38,089 Number of operators 1.63 Labor & mgt. income/oper. \$23,368 Real Estate: Land/building/ fence repair 2,974 capital including apprec. 9.5% Insurance 3,564 BUSINESS FACTORS 92 Number of cows 92 Nother of farm share) 559 Worker equivalent 3.14 5.66 Interest paid 11,873 Milk sold per worker, lbs. 15,660 Miscillaneous 2,886 Hay DM per a		81	Other livestock	324
Mach. repairs/parts 13,993 Government receipts 21,571 Auto expense (farm share) 318 Custom machine work 1,327 Auto expense (farm share) 318 Custom machine work 1,327 Auto expense (farm share) 308 Custom machine work 1,327 Livestock: Replacement lvstk. 4,820 Other 2,952 Wilk marketing 10,099 TOTAL ACCRUAL RECEIPTS \$271,222 Milk marketing 10,099 PROFITABILITY ANALYSIS \$261,209 Gast La lease/rent 0 Net farm inc. (w/apprec.) \$61,209 Grong: Fertilizer & lime 5,565 Labor & mgt. income/farm \$38,089 Number of operators 1.63 Labor & mgt. income/oper. \$23,368 Real Estate: Land/building/ fence repair 2,974 capital including apprec. 9.5% Insurance 3,564 BUSINESS FACTORS 92 Number of cows 92 Nother of farm share) 559 Worker equivalent 3.14 5.66 Interest paid 11,873 Milk sold per worker, lbs. 15,660 Miscillaneous 2,886 Hay DM per a	Machinery:Mach. hire/rent/	lease 3,461	Crops	35,004
Auto expense (farm share)318Custom machine work1,327Fuel, oil, grease7,980Gas tax refund316Fuel, oil, grease7,980Gas tax refund316Breeding3,083- Nonfarm noncash capital(-)Vet & medicine4,939TOTAL ACCRUAL RECEIPTS $$271,222$ Mik marketing11,099PROFITABILITY ANALYSISCattle lease/rent0Net farm inc. (w/apprec.)\$61,209Other livestock expense10,568Net farm inc. (w/apprec.)\$75,730Seeds & plants5,565Number of operators1.63Spray & other crop expense5,743Labor & mgt. income/per.\$23,368Reat Estate:1.and/building/rate of return on equitycapital including apprec.9.5%Insurance3,564BUSINESS FACTORS92Pelephone (farm share)559Worker equivalent3.14Electricity (farm share)5.88Hay DM per acre, tons3.0TOTAL OPERATING EXPENSES\$183,240Gorn silage per acre, tons18.1Miscellaneous2.886Hay DM per acre, tons18.1StrestJan. 1Dec. 31LikeLITTESJan. 1Dec. 31Farm cash/chg./sav.\$13,6967,972Accounts payable\$4,013\$2,994Accounts receivable20,80621,883Operating debt64,09935StrestJan. 1Dec. 31LikeLITTESJan. 1Dec. 31Farm cash/chg./sav.\$13,6967,972Accounts p	-		-	
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Feed & supplies 63,491 70,774 Advanced gov't. rec. 0 0 Dairy cows** 75,757 80,055 Intermediate*** 66,389 61,263 Heifers 32,746 34,773 Long-term** <u>74,366</u> <u>71,802</u> Bulls & other lvstk. 584 671 Total Farm Liab. \$156,131 \$146,471 Machinery & equip.** 136,431 139,899 Nonfarm Liab.**** 0 0 FLB & PCA stock 4,613 4,600 Total Farm & Nonfarm 0 0 Other stock & cert. 17,457 15,552 Liabilities \$156,131 \$146,471 Land & buildings** 225,755 218,884	Accounts receivable 20	,806 21,883	Operating debt 64	
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Bulls & other lvstk. 584 671 Total Farm Liab. \$156,131 \$146,471 Machinery & equip.** 136,431 139,899 Nonfarm Liab.**** 0 0 FLB & PCA stock 4,613 4,600 Total Farm & Nonfarm 0 0 Other stock & cert. 17,457 15,552 Liabilities \$156,131 \$146,471 Land & buildings** 225,755 218,884 139,107 Farm Net Worth \$435,206 \$448,728 Nonfarm Assets 59,571 133,107 Farm & Nonfarm Net Worth \$494,776 \$581,834	Dairy cows** 75	,757 80,055	Intermediate*** 66,38	9 61,263
Machinery & equip.** 136,431 139,899 Nonfarm Liab.**** 0 0 FLB & PCA stock 4,613 4,600 Total Farm & Nonfarm 0 0 Other stock & cert. 17,457 15,552 Liabilities \$156,131 \$146,471 Land & buildings** 225,755 218,884 591,336 \$595,198 Farm Net Worth \$435,206 \$448,728 Nonfarm Assets**** 59,571 133,107 Farm & Nonfarm Net Worth \$494,776 \$581,834	Heifers 32	,746 34,773	Long-term**74,36	<u>6 71,802</u>
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FLB & PCA stock 4,613 4,600 Total Farm & Nonfarm Other stock & cert. 17,457 15,552 Liabilities \$156,131 \$146,471 Land & buildings** 225,755 218,884 \$591,336 \$595,198 Farm Net Worth \$435,206 \$448,728 Nonfarm Assets 59,571 133,107 Farm & Nonfarm Net Worth \$494,776 \$581,834	Machinery & equip.** 136	,431 139,899	Nonfarm Liab.****	0 0
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Land & buildings** 225,755 218,884 Total Farm Assets \$591,336 \$595,198 Farm Net Worth \$435,206 \$448,728 Nonfarm Assets**** 59,571 133,107 Farm & Nonfarm \$494,776 \$581,834				1 \$146,471
Total Farm Assets \$591,336 \$595,198 Farm Net Worth \$435,206 \$448,728 Nonfarm Assets****				
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Total Farm & Nonfarm Net Worth \$494,776 \$581,834				
				6 \$581.834
		,907 \$728,305	· · · · ·	

Assets \$650,907 \$728,305 *A farm is classified as dairy-cash crop if cash crop sales amounted to 10 percent or more of accrual milk sales. **Includes discounted lease payments. ***Includes FLB/PCA stock and discounted lease payments for cattle and machinery. ****Average of seven farms reporting nonfarm assets and liabilities.

ACCRUAL EXPENSES		ACCRUAL RECEIPTS	
<u>Labor</u> : Hired	\$ 12,117	Milk sales	\$154,332
<u>Feed</u> : Dairy grain & conc.	34,727	Dairy cattle	11,579
Dairy roughage	4,521	Dairy calves	2,543
Other livestock	215	Other livestock	34
Machinery:Mach. hire/rent/1	ease 1,268	Crops	2,484
Mach. repairs/parts	7,744	Government receipts	4,291
Auto expense (farm share)	429	Custom machine work	382
Fuel, oil, grease	4,414	Gas tax refund	75
Livestock: Replacement lvst	-	Other	1,291
Breeding	2,691	- Nonfarm noncash capital	(-) 140
Vet & medicine	3,058	TOTAL ACCRUAL RECEIPTS	\$176,869
Milk marketing	9,763		, _ ,
Cattle lease/rent	84	PROFITABILITY ANALYSIS	
Other livestock expense	7,320	Net farm inc. (w/o apprec.)	
<u>Crops</u> : Fertilizer & lime	5,022	Net farm inc. (w/apprec.)	\$39,958
Seeds & plants	2,213	Labor & mgt. income/farm	\$22,702
Spray & other crop expense	2,215	Number of operators	1.37
<u>Real Estate</u> : Land/building/		Labor & mgt. income/oper.	\$16,571
fence repair	1,979	Rate of return on equity	
Taxes	1,103	capital including apprec.	8.3%
Insurance	2,773	BUSINESS FACTORS	
Rent & lease	12,921	Number of cows	76
Other:	12,921	Number of heifers	54
<u>Johner</u> . Telephone (farm share)	529	Worker equivalent	2.52
	4,219	Total tillable acres	232
Electricity (farm share)	-		
Interest paid	5,270	Milk sold per cow, 1bs.	15,675
Miscellaneous	$\frac{1,630}{6132,102}$	Hay DM per acre, tons	2.5
TOTAL OPERATING EXPENSES	\$132,193	Corn silage per acre, tons	15.2
	701	Milk sold per worker, 1bs.	472,486
Expansion livestock	701	Grain/conc. as % milk sales	
Machinery depreciation	10,615	Feed & crop exp./cwt. milk	\$4.12
Building depreciation	970	Labor & mach. costs/cow	\$741
TOTAL ACCRUAL EXPENSES	\$144,479	Average price/cwt. milk	\$12.98
	1 Dec 31		Dec 21
ASSETS Jan.		LIABILITIES Jan. 1	
Farm cash/chkg./sav. \$ 14,			
	,754 13,473	Operating debt 2,90	
Prepaid expenses	0 7	Short-term 2,72	
	505 34,014	Advanced gov't. rec.	0 0
-	,918 66,183		•
	157 22,109	<u> </u>	
Bulls & other lvstk.	241 276	Total Farm Liab. \$ 69,51	
	,186 80,120	Nonfarm Liab.****4,43	4,828
	,772 1,832	Total Farm & Nonfarm	
	,302 6,250	Liabilities \$ 73,94	3 \$ 74,342
	309 14,562		
Total Farm Assets \$239,		Farm Net Worth \$170,33	\$178,713
	<u>.346</u> <u>47.697</u>		
Total Form & Nonform		Not Howth 0101 04	0 0001 500

Table 58. FARM BUSINESS SUMMARY AND FARM FAMILY FINANCIAL SITUATION 50 New York Dairy-Renter Farms,* 1987

*A farm is classified as a renter if no farm real estate is owned at the end of the year or no tillable land is owned. **Includes discounted lease payments. ***Includes FLB/PCA stock and discounted lease payments for cattle and machinery. ****Average of 23 farms reporting nonfarm assets and liabilities.

\$265,191 \$295,924

Total Farm & Nonfarm

Assets

Net Worth

\$191,248 \$221,582

 Table 59.
 FARM BUSINESS SUMMARY AND FARM FAMILY FINANCIAL SITUATION

 Top 10 Percent of the Farms by Net Farm Income (without appreciation)

 42 New York Dairy Farms, 1987

ACCRUAL EXPENSES		ACCRUAL RECEIPTS	
Labor: Hired	\$ 87,216	Milk sales	\$578,773
<u>Feed</u> : Dairy grain & conc.	136,485	Dairy cattle	56,212
Dairy roughage	7,119	Dairy calves	8,472
Other livestock	939	Other livestock	1,230
Machinery: Mach. hire/rent/lea	ase 4,938	Crops	24,394
Mach. repairs/parts	29,094	Government receipts	19,427
Auto expense (farm share)	947	Custom machine work	785
Fuel, oil, grease	13,312	Gas tax refund	678
Livestock: Replacement lvstk		Other	8,684
Breeding	8,018	- Nonfarm noncash capital	<u>(-) 135</u>
Vet & medicine	13,573	TOTAL ACCRUAL RECEIPTS	\$698,520
Milk marketing	31,373		, , - <u>.</u> .
Cattle lease/rent	289	PROFITABILITY ANALYSIS	
Other livestock expense	20,673	Net farm inc. (w/o apprec.)	\$136,964
<u>Crops</u> : Fertilizer & lime	19,261	Net farm inc. (w/apprec.)	\$176,331
Seeds & plants	9,348	Labor & mgt. income/farm	\$90,118
Spray & other crop expense	10,046	Number of operators	1.76
	10,040	Labor & mgt. income/oper.	\$51,204
Real Estate: Land/building/	11 017	Rate of return on equity	
fence repair Taxes	11,017	capital including apprec.	14.4%
Insurance	11,671	BUCTNECS FACTORS	
	7,212	BUSINESS FACTORS	250
Rent & lease	13,108	Number of cows	250
Other:	1 000	Number of heifers	199
Telephone (farm share)	1,223	Worker equivalent	6.3
Electricity (farm share)	12,213	Total tillable acres	641
Interest paid	38,551	Milk sold per cow, lbs.	17,899
Miscellaneous	7,658	Hay DM per acre, tons	3.2
TOTAL OPERATING EXPENSES	\$498,251	Corn silage per acre, tons	17.2
The second se	6 1 2 7	Milk sold per worker, 1bs.	707,041
Expansion livestock	6,137	Grain/conc. as % milk sales	24%
Machinery depreciation	35,125	Feed & crop exp./cwt. milk	\$4.07
Building depreciation	22,043	Labor & mach. costs/cow	\$804
TOTAL ACCRUAL EXPENSES	\$561,556	Average price/cwt. milk	\$12.92
<u>ASSETS</u> Jan.	1 Dec 31	LIABILITIES Jan. 1	<u>Dec. 31</u>
		Accounts payable \$ 11,973	\$ 5,945
Accounts receivable 48,80		Operating debt 20,335	26,397
Prepaid expenses 56			9,237
Feed & supplies 123,10		•	412
Dairy cows* 201,44			194,067
Heifers 84,55			229,436
Bulls & other lvstk. 1,83			\$465,493
Machinery & equip* 214,20		Nonfarm Liab.***6.260	<u>5,830</u>
FLB & PCA stock 10,15		Total Farm & Nonfarm	,000
Other stock & cert. 31,02		Liabilities \$477,639	\$471,323
Land & buildings* <u>612.83</u>	•	LIAUTILLES 34/1,039	9471,323
<u> </u>		Form Not North 6065 001	¢070 000
Total Farm Assets \$1,336,61			\$978,888
Nonfarm Assets*** <u>69,72</u>	484,917		61 057 075
Total Farm & Nonfarm	/ 61 500 000	Net Worth \$928,695	\$1,057,975
Assets \$1,406,33	4 \$1,529,298		

*Includes discounted lease payments. **Includes FLB/PCA stock and discounted lease payments for cattle and machinery. ***Average of 15 farms reporting nonfarm assets and liabilities.

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read:Dairy cruthe18,472Dairy roughage1,903Dairy cattle18,472Dairy roughage1,903Dairy cattle3,347Other livestock565Other livestock565Mach. repairs/parts12,141Government receipts5,678Auto expense (farm share)677Custom machine work262Livestock:Replacement lvstk.2,141Other2,913Breeding3,100- Nonfarm noncash capital(-)135Vet & medicine4,599TOTAL ACCRUAL RECEIPTS\$248,818Milk marketing12,195Retfarm inc. (w/o apprec.)\$35,192Other livestock expense8,574Net farm inc. (w/o apprec.)\$35,192Seeds & plants3,442Number of operators1.3Spray & other crop expense3,561Hoor & meditycapital including apprec.fence repair3,294capital including apprec.8.1%Taxes5,704Number of heifers79Telephone (farm share)725Worker equivalent3.10Iscal Estate17,132Milk sold per cow, lbs.16,351Miscelleneous3,237Hay DM per acre, tons2.4Autorex & Affers73114Sold per worker, lbs.516,728Expansion livestock1,710Kat8 feed & crop exp./out.114Macharinery depreciation15,488Feed & crop exp./out.114Strine & Appress73114Sold per worker, lbs.16,23Expansi	ACCRUAL EXPENSES			ACCRUAL RECEIPTS		
Datry roughage 1,903 Datry calves 3,347 Other livestock 857 Other livestock 565 Mach.repairs/parts 12,141 Government receipts 5,678 Auto expense (farm share) 677 Custom machine work 262 Fuel, oil, grease 5,744 Gas tax refund 269 Livestock: Replacement lvsk. 2,141 Other 2,913 Breeding 3,100 - Nonfarm noncash capital (-) 135 Vet & medicine 4,599 TOTAL ACCRUAL RECEIPTS \$248,818 Grops: Fertilizer & lime 8,239 Net farm inc. (w/apprec.) \$35,192 Grops: Fertilizer & lime 8,239 Net farm inc. (w/apprec.) \$35,047 Spray & other crop expense 3,154 Labor & mgt. income/farm \$14,575 Reat & lease 4,200 Number of operators \$11,042 Insurance 3,621 <u>BUSINESS FACTORS</u> 101 Miscellaneous 3,232 Hay DM per arce, tons 2,74 Total OPERVINC EXPENSES \$18,83 Sorn silage per acre, tons	<u>Labor</u> : Hired	\$	24,522			
Otherlivestock857Otherlivestock565Mach. repairs/parts12,141Government receipts5,678Auto expense (farm share)677Custom machine work262Livestock:Replacement lvstk.2,141Other2,913Breeding3,100-Nonfarm noncash capital(-)135Vet & medicine4,599TOTAL ACCRUAL RECEIPTS\$248,818Milk marketing12,195PROFITABLLITY ANALYSISCattle lease/rent130Net farm inc. (w/o apprec.)\$35,192Other livestock expense8,574Net farm inc. (w/o apprec.)\$35,192Seeds & plants3,442Labor & mgt. income/farm\$14,575Spray & other crop expense3,156Labor & mgt. income/oper.\$11,042Insurance3,621BUSINESS FACTORS101Number of operators101Number of coves101Other:725Worker equivalent3.19Eleptone (farm share)725Worker equivalent3.19TOTAL OPERATING EXPENSES\$188,335Corn silage per acre, tons2.7TOTAL ACCRUAL EXPENSES\$186,335Corn silage per acre, tons2.7TOTAL ACCRUAL EXPENSES\$213,626Average price/cwt. milk\$412.89Machinery depreciation15,488Feed & crop exp./cwt. milk\$412.89TOTAL ACCRUAL EXPENSES\$213,626Average price/cwt. milk\$41.83Breading deprectation16,481Sort.term3.987TOTAL ACCRUAL EXPENS	Feed: Dairy grain & c	onc.	51,043	Dairy cattle		
Machinery:Mach. hire/rent/lease 2,373 Crops 4.821 Mach. repairs/parts 12,141 Government receipts 5,678 Auto expense (farm share) 677 Custom machine work 262 Fuel, oil, grease 5,744 Gas tax refund 269 Livestock: Replacement lvsk. 2,141 Other 2,913 Vet & medicine 4,599 TOTAL ACGNUAL RECEIPTS \$248,818 Milk marketing 12,195 TOTAL ACGNUAL RECEIPTS \$248,818 Other livestock expense 8,574 Net farm inc. (w/e apprec.) \$35,192 Other livestock expense 3,160 - Nonfarm noncash capital (-) 135 Spray & other crop expense 3,164 Number of operators 1.1 Real Estate: Land/building/ fence repair 3,294 Takes 704 capital including apprec. 8.1% Number of covs Number of heifers 79 101 Number of heifers 79 Taxes 5,206 Total Hay DM per acre, tons 2.7 101 Number of heifers 79 101 Gorain	Dairy roughage		1,903	Dairy calves		
Mach. repairs/parts 12,141 Government receipts 5,678 Auto expense (farm share) 677 Custom machine work 262 Livestock: Replacement lvstk. 2,141 Other 2,913 Breeding 3,100 - Nonfarm noncash capital (-) 135 Vet & medicine 4,599 TOTAL ACCRUAL RECEIPTS \$248,818 Milk marketing 12,141 BOFTABLILTY ANALYSIS State lease/rent 130 Other livestock expense 8,574 Net farm inc. (w/apprec.) \$35,192 Grops: Fertilizer & lime 8,239 Net farm inc. (w/apprec.) \$35,047 Spray & other crop expense 3,154 Labor & mgt. income/farm \$1,042 Reat Estate: Land/building/ fence repair 3,294 Rate of return on equity 11,042 Rent & lease 4,200 Number of covs 101 Number of covs 101 Number of covs 101 Number of fielers 79 12 140 M Per acre, tons 2,7 Total including appreciation 15,488 566 Total linelse acre, tons 2,7 Total OFERATING EXPENSES \$213,626 Average	Other livestock		857	Other livestock		565
Mach. repairs/parts12,141Government receipts5,578Auto expense (farm share)677Custom machine work262Fuel, oil, grease5,744Gas tax refund269Livestock: Replacement lvstk.2,141Other2,913Vet & medicine4,599TOTAL ACCRUAL RECEIPTS\$248,818Milk marketing12,195FROFITABILITY ANALYSISCattle lease/rent130Net farm inc. (w/a apprec.)\$35,192Other livestock expense8,574Net farm inc. (w/a poprec.)\$35,192Other livestock expense3,442Net farm inc. (w/o apprec.)\$58,047Spray & other crop expense3,442Labor & mgt. income/oper.\$11,042Real Estate: Land/building/ fence repair704capital including apprec.\$11,042Reat estate: Land/building/ fence repair9,294Number of cows101Numer of farm share)725Worker equivalent3.19Electricity (farm share)5,586Total tillable acres305Interest paid17,112Milk sold per cow, lbs.16,351Miscellaneous3,237Hay DM per acre, tons2.74Machinery depreciation15,488Feed & crop exp./cwt. milk\$44.11Building depreciation8,093Labor & mach. costs/cow\$814TOTAL OFEATING EXPENSES\$218,626Average price/cwt. milk\$4.11Building depreciation8,093Labor & mach. costs/cow\$814TOTAL ACCRUAL EXPENSES\$218,626Average price/cwt.	Machinery: Mach. hire/	rent/lease	2,373	Crops		4,821
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Total Farm Assets \$578,408 \$611,019 Farm Net Worth \$363,186 \$398,209 Nonfarm Assets*** 49,913 60,031 Farm & Nonfarm \$410,949 \$456,167				Liabilities	\$217,372	\$214,883
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Total Farm & Nonfarm Net Worth \$410,949 \$456,167					\$363,186	\$398,209
		<u> 49,913</u>	60,031			
Assets \$628,321 \$671,050				Net Worth	Ş410,949	\$456,167
	Assets	Ş628,321	\$671,050			

Table 60. FARM BUSINESS SUMMARY AND FARM FAMILY FINANCIAL SITUATION Average of 426 New York Dairy Farms, 1987

*Includes discounted lease payments. **Includes FLB/PCA stock and discounted lease payments for cattle and machinery. ***Average of 259 farms reporting nonfarm assets and liabilities.

Table 61.	FARM BUSINESS	SUMMARY	AND FARM	FAMILY FINANCIAL	SITUATION
	Average	per Cow,	426 New	York Dairy Farms,	1987

Avera	ge per Co	ow, 426 New	York Dairy Farms, 19	987	
ACCRUAL EXPENSES			ACCRUAL RECEIPTS		
Labor: Hired		\$ 243	Milk sales		\$2,107
<u>Feed</u> : Dairy grain & co	nc	506	Dairy cattle		183
Dairy roughage		19	Dairy calves		33
Other livestock		8	Other livestock		6
Machinery:Mach. hire/r	ont /less		Crops		48
Mach. repairs/parts	enc/reas	120	Government receipts		56
	rol	7	Custom machine work		3
Auto expense (farm sha	iie)	, 57	Gas tax refund		3
Fuel, oil, grease	Inctio	21	Other		29
Livestock: Replacement	. IVSLK.	31			(-) 1
Breeding			- Nonfarm noncash c		
Vet & medicine		46	TOTAL ACCRUAL REC	EIFIS	\$2,467
Milk marketing		121			
Cattle lease/rent		1	PROFITABILITY ANALY		****
Other livestock expens		85	Net farm inc. (w/o		\$349
<u>Crops</u> : Fertilizer & li	me	82	Net farm inc. (w/ap		\$575
Seeds & plants		34	Labor & mgt. income		\$144
Spray & other crop exp		31	Number of operators		(1.32)
<u>Real Estate</u> : Land/buil	_ding/		Labor & mgt. income		\$109
fence repair		33	Rate of return on e		
Taxes		57	capital including	apprec.	8.1%
Insurance		36			
Rent & lease		42	BUSINESS FACTORS		
<u>Other</u> :			Number of cows		(101)
Telephone (farm share)		7	Number of heifers		0.78
Electricity (farm shar	:e)	55	Worker equivalent		0.032
Interest paid		170	Total tillable acre	S	3.0
Miscellaneous		32	Milk sold, lbs.		16,351
TOTAL OPERATING EXPE	ENSES	\$1,867	Hay DM, tons		4.1
		• •	Corn silage, tons		10.7
Expansion livestock		17	Dairy feed & crop e	xpense	\$672
Machinery depreciation	n	154	Labor & mach. costs	-	\$814
Building depreciation	-	80	Total debt		\$2,046
TOTAL ACCRUAL EXPEN	ISES	\$2,118	Debt payment		\$542
		<i>vz</i> , <i>zzo</i>			φ.5+2
ASSETS	<u>Jan. 1</u>	<u>Dec. 31</u>	LIABILITIES	<u>Jan, 1</u>	<u>Dec. 31</u>
Farm cash/chkg./sav.	\$ 46	\$ 59	Accounts payable	\$ 56	\$ 52
Accounts receivable	182	187	Operating debt	37	43
Prepaid expenses	1	1	Short-term	40	33
Feed & supplies	432	471	Advanced gov't. rec		1
Dairy cows*	820	892	Intermediate**	. 815	825
Heifers	336	363	Long-term*	1,186	1,156
Bulls & other lvstk.	9	11	Total Farm Liab.	\$2,134	\$2,110
Machinery & equip.*	1,032	1,083	Nonfarm Liab.***	21	21
FLB & PCA stock	49	49			
Other stock & cert.	75	49 81	Total Farm & Nonfar		¢0 101
			Liabilities	\$2,155	\$2,131
Land & buildings*	2.751	2,859	Down Mat II	62 500	62 0/7
Total Farm Assets	\$5,733	\$6,056	Farm Net Worth	\$3,599	\$3,946
Nonfarm Assets***	<u> </u>	<u> </u>	Farm & Nonfarm	A/ 070	A/ 500
Total Farm & Nonfarm	AC 000	AC (51	Net Worth	\$4,073	\$4,520
Assets	\$6,228	\$6,651			

*Includes discounted lease payments. **Includes FLB/PCA stock and discounted lease payments for cattle and machinery. ***Average of 259 farms reporting nonfarm assets and liabilities.

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APPENDIX

THE ECONOMIC ENVIRONMENT FACING NEW YORK DAIRY FARMERS

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The prices dairy farmers receive for milk and slaughter cows have a major impact on dairy farm profits. Milk prices generally increased from 1975 to 1981. Annual milk prices declined from 1981 to 1986. The 1987 milk price averaged \$0.10 per hundredweight higher than in 1986. The average monthly farmprice exceeded 1986 levels during the first four months of 1987. Slaughter cow prices hit a six-year low in 1975, peaked in 1979, and declined through the early 1980's. The 1987 slaughter cow price averaged \$7.18 per hundredweight higher than in 1986.

			Monthly	Farm P	rice
Year	All Milk	Slaughter Cows	of	Milk	
	(\$/cwt)	(\$/cwt)		(\$/c	wt)
,				<u>1986</u>	<u>1987</u>
1975	8.75	20.60	January	12.50	13.30
1976	9.83	25.40	February	12.40	12.90
1977	9.75	25.00	March	12.00	12.40
1978	10.50	35.30	April	11.80	12.10
1979	11.90	49.80	May	11.60	11.60
			June	11.50	11.50
1980	13.00	46.30	July	12.10	12.10
1981	13.80	41.30	August	12.70	12.60
1982	13.70	38,60	September	13.20	13.10
1983	13.70	37.20	October	13.60	13.30
1984	13,50	36.90	November	13.70	13.30
			December	13.40	12.70
1985	12.80	34.90			
1986	12.60	33,60			
1987	12.70	40.78			

Table A1. PRICES RECEIVED BY NEW YORK DAIRY FARMERS, 1975-1987

SOURCE: NYCRS, New York Crop and Livestock Report.

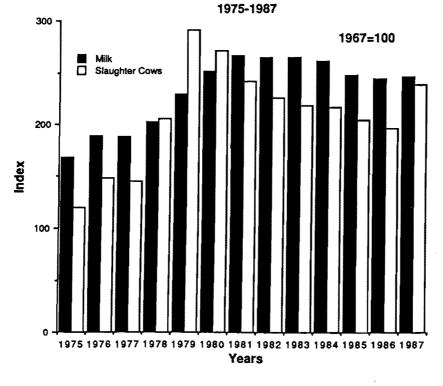


Chart A1. PRICES RECEIVED BY NEW YORK DAIRY FARMERS,

The prices dairy farmers pay for a given quantity of goods and services has a major influence on farm production costs. The astute manager will keep close watch on unit costs and utilize the most economical goods and services.

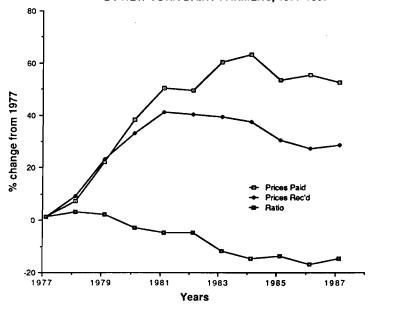
Year	Mixed Dairy Feed 16% Protein	Fertilizer, Urea, 45-46%N	Seed Corn, Hybrid*	Diesel Fuel	Tractor 50-59 PTO*	Wage Rate All Hired Farm Workers
	(\$/ton)	(\$/ton)	(\$/bu)	(\$/gal)	(\$)	(\$/hr)
1977	139.40	180	40.00	0.481	10,000	2.53
1978	136.50	189	43.00	0.509	10,900	2.78
1979	156.80	213	45.50	0.723	12,000	2.88
1980	179.60	259	52.50	1.030	13,400	3.12
1981	193.70	275	60.00	1.310	14,900	3.26
1982	176.60	278	63.70	1.240	16,000	3.26
1983	192.60	249	64.60	1.140	17,200	3.52
1984	194.30	250	70.20	1.140	17,400	3.60
1985	164.20	238	67.30	1.080	16,800	4.00***
1986	162.90	200**	65.60	0.840**	16,600	4.41***
1987	152.75**	190**	64.90	0.765**	16,700	4.59***

Table A2. PRICES PAID BY NEW YORK FARMERS FOR SELECTED ITEMS, 1977-1987

SOURCE: NYCRS, New York Agricultural Statistics. USDA, ASB, Agricultural Prices. *United States average. **Northeast region average. ***New York and New England combined.

The table above shows average prices of selected goods and services used on New York dairy farms. Chart A2 shows the ratio of prices received for milk and prices paid by New York dairy farmers as a percent change from 1977. The ratio has been on a downward trend since 1978 except for slight increases in 1985 and 1987.

> Chart A2. RATIO OF PRICES RECEIVED FOR MILK AND PRICES PAID BY NEW YORK DAIRY FARMERS, 1977-1987



SOURCE: NYCRS, New York Agricultural Statistics.

Inflation, farm profitability, supply and demand all have a direct impact on the inventory values on New York dairy farms. The table below shows year-end (December) prices paid for dairy cows (replacements), an index of these cow prices, an index of new machinery prices (U.S. average), the average per acre value of farmland and buildings reported in February (April for 1982-85), and an index of the real estate prices.

	Dairy	Dairy Cows		Farm Real	Farm Real Estate		
Year	Value/Head	1977-100	1977-100	Value/Acre	<u> 1977–100</u>		
1977	\$ 495	100	100	\$587	100		
1978	. 800	162	109	600	102		
1979	1,150	232	121	670	114		
1980	1,240	251	134	720	123		
1981	1,120	226	149	773	132		
1982	1,010	204	163	821	140		
1983	850	172	173	817	139		
1984	790	160	181	842	143		
1985	740	149	181	808	138		
1986	770	156	179	824	140		
1987	870	176	181	931	159		

Table A3. VALUES OF NEW YORK DAIRY FARM INVENTORY ITEMS	, 1977-1987
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SOURCE: NYCRS, New York Agricultural Statistics. USDA, ASB, Agricultural Prices. *United States average.

Dairy cow prices turned up in 1986 after declining for five consecutive years. The 1987 value per head averaged \$100 higher than in 1986. New machinery prices declined in 1986 for the first time in eight years, however, 1987 prices increased slightly. Farm real estate values continue to strengthen. All of these changes are associated with the gradual improvement in economic conditions on dairy farms.

