

Department of Agricultural Economics Cornell University Agricultural Experiment Station New York State College of Agriculture and Life Sciences A Statutory College of the State University Cornell University, Ithaca, New York 14853

TABLE OF CONTENTS

INTRODUCTION	1
	2
	3
	-
SUMMARY OF THE FARM BUSINESS	6
	6
	7
	8
Expenses	3
Financial Summary of Year's Business	
ANALYSIS OF THE FARM BUSINESS	7
Size of Business	7
Rates of Production	9
Labor Efficiency)
Capital Efficiency	1
Cost Control	2
Feed Costs	2
Machinery Costs	4
Labor Costs	5
Combination of Factors	6
Farm Business Chart	7
SUPPLEMENTAL INFORMATION	8
Cost of Producing Milk	9
Farm Business Summary by Herd Size	Э
Selected Business Factors by Herd Size	2
Farm Family Financial Situation by Herd Size	4
Comparison of Farms by Type of Barn and Herd Size	5
Selected Business Factors by Milking Systems	7
Farm Business Summaries for Individuals, Partnerships,	
and Corporations	3
Comparison of Farm Business Summaries for 1974 and 1975)
Selected Farm Business Summary Factors, 1965-1975	2
Operating Statements:	
47 Dairy-Cash Crop Farms	3
55 Dairy-Renter Farms	-
Top 10 Percent of 605 Dairy Farms	5
Average of 605 Dairy Farms	5

Page

INTRODUCTION

Since 1955, farm business management projects have been a basic part of the management extension program in New York State. The College and the County Extension staffs cooperate in sponsoring these projects. In 1975, about 750 dairymen participated in these management projects. Each dairyman kept farm business records which were submitted to the College for summary and analysis. These projects provide the basis for extension educational programs and also data for applied research studies.

The Extension agents were responsible for organization of local groups and collection of the records. Regional summary reports were prepared for use by the agents in winter meetings with farmers. Each cooperator received a summary and analysis of his business and a regional report for use in studying his operation. The aim of these extension activities was to help the dairyman develop his managerial skills and solve his business management problems.

The records from all regions of the State have been combined for use in an applied research study of the factors affecting dairy farm incomes. This research provides current farm business data for use by dairymen, Extension agents, teachers, agribusinessmen, policy makers, and others concerned with the New York dairy industry.

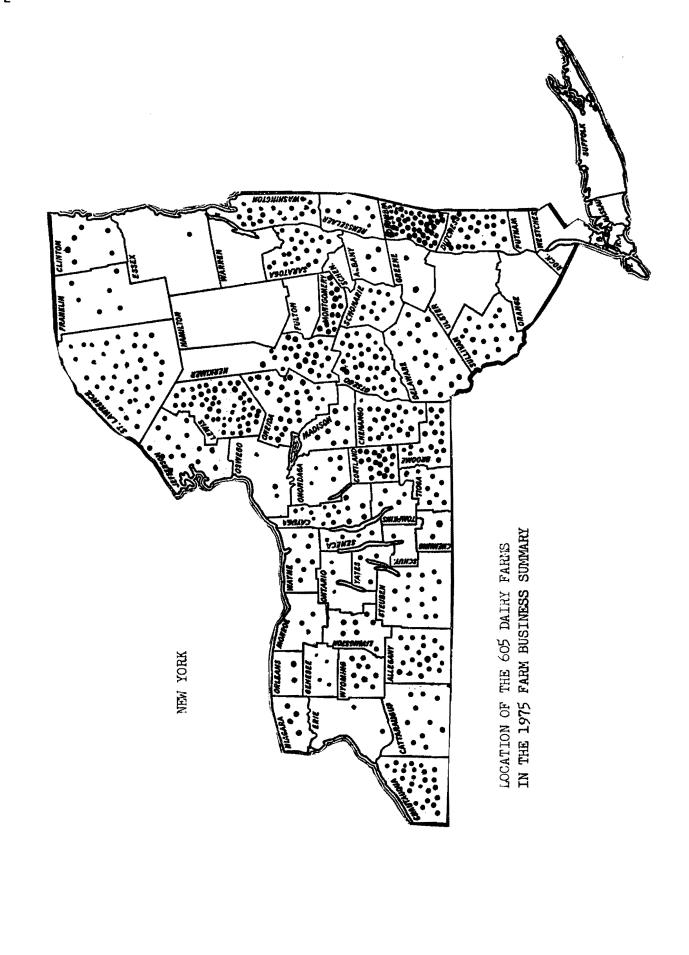
A total of 605 farm business records have been included in the general dairy summary and analysis for 1975. These 605 farms do <u>NOT</u> represent the "average" for all dairy farms in the State. Participation was on a voluntary basis so not all areas were equally represented (see page 2). The 605 farms do represent a crosssection of better than average commercial operators in the State.

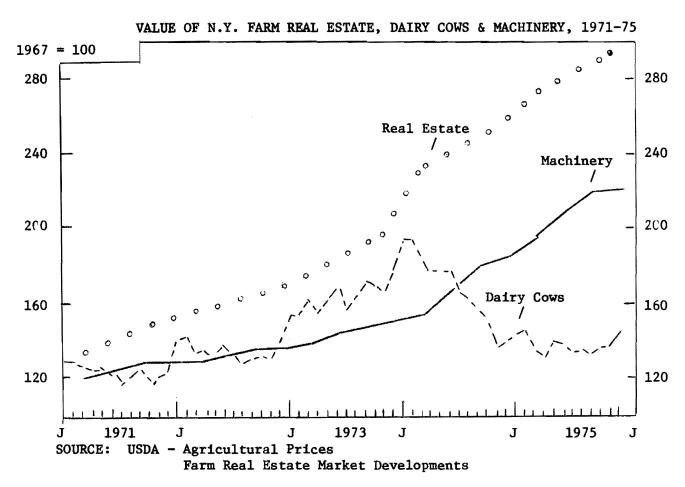
1975 Regional Summary Publications

Region	Publication	Author(s)
Cortland County	A.E. Ext. 76-3	R. S. Smith & S. F. Smith
Western Plateau	A.E. Ext. 76-10	G. L. Casler
Eastern Plateau	A.E. Ext. 76-8	G. J. Conneman & S. F. Smith
Western Plains	A.E. Ext. 76-17	E. L. LaDue
Central Plain	A.E. Ext. 76-13	R. A. Milligan
Central New York	A.E. Ext. 76-18	S. F. Smith
Oneida-Mohawk	A.E. Ext. 76-15	S. F. Smith
Lewis County	A.E. Ext. 76-7	C. A. Bratton
Northern New York	A.E. Ext. 76-9	C. A. Bratton
Northern Hudson	A.E. Ext. 76-11	S. F. Smith
Columbia & Dutchess Counties	A.E. Ext. 76-12	S. F. Smith

Acknowledgements

C. A. Bratton, G. L. Casler, G. J. Conneman, E. L. LaDue, A. C. Lowry, R. A. Milligan, R. S. Smith, and S. F. Smith with the assistance of the Cooperative Extension Agents supervised the farm business management projects and the records which made this summary possible. Summarization and tabulation of the records and all machine operations were completed under the supervision of Myrtle Voorheis and the typing was done by Angelina Torchia.



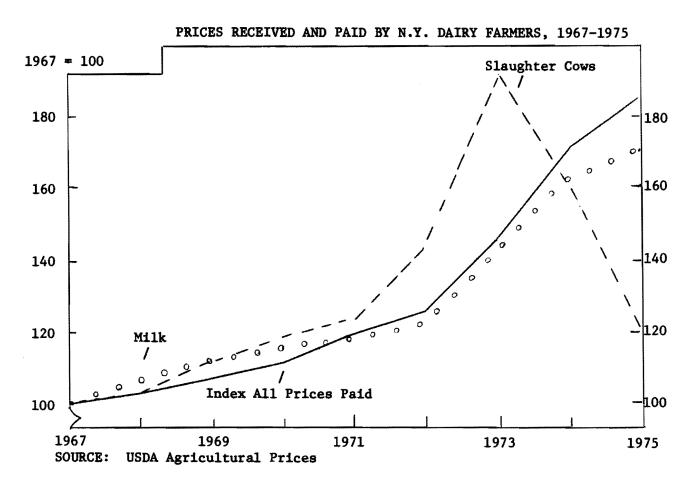


Price changes affect the inventory values on New York dairy farms. Real estate and machinery prices have risen steadily during the past five years, with the rate of rise in 1975 slightly less than in 1974. Dairy cow prices peaked in early 1974, dropped sharply during the year, then rose 3% in 1975. Real estate values tripled from 1967 to 1975, machinery prices more than doubled, while dairy cows were up 45%.

		Y. Dai	ry Cows	Machinery		N.Y.	N.Y. Farm Real Estate		
Year	Value/	Head	1967=100	1967=1	.00	Value	Acre	1967=100	
1965		\$238	79		92		\$184	86	
197 0		353	116		117		273	125	
1973*	(Dec.)	550	177	(Dec.)	150	(Nov.)	442	199	
1974*	(Dec.)	435	140	(Dec.)	185	(Nov.)	564	254	
1975*	(Dec.)	450	145	(Dec.)	222	(Nov.)	654	294	
Percent chan	ge:								
'65 to '75 (av./yr.)	+	9%	+1	.4%		+2	6%	
'73 to '74		-2	1%	+2	3%		+2	8%	
'74 to '75		+	3%	+2	0%		+1	6%	

Table 1. REPORTED VALUES OF DAIRY FARM INVENTORY ITEMS, 1965-1975

* Latest figure reported for year, i.e., November for real estate.

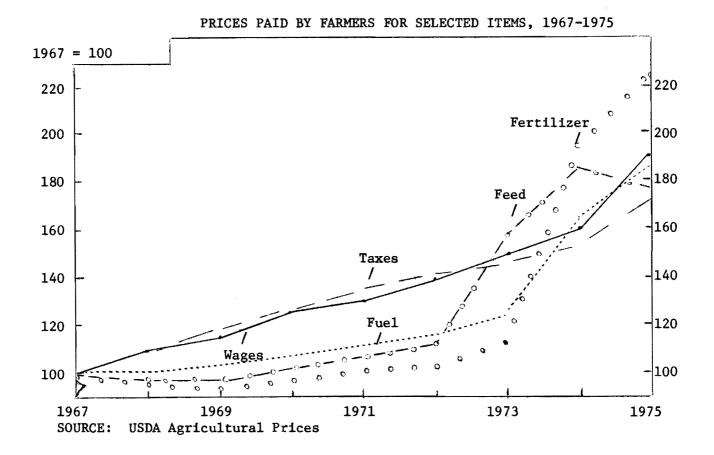


The relationship of prices received to prices paid determines the general level of incomes. The graph above shows the trend in prices since 1967 for milk, cull cows, and the index of all prices paid by New York dairy farmers. Since 1971, milk prices have lagged behind prices paid. Slaughter cow prices were unusually high in 1973 but dropped sharply in 1974 and 1975.

			Prices Paid	Monthly	Farm
	Milk	Slaughter	By New York	Price/100	Lbs.
Year	3.5% B.F.	Cows	Dairy Farmers	of Milk,	1975
	(cwt.)	(cwt.)	(1967=100)		
1965	\$4.27	\$13.91	93	January	\$ 8.17
1966	4.79	17.35	96	February	8.17
1967	5.07	17.10	100	March	7.82
1968	5.43	17.60	103	April	7.71
1969	5.66	19.30	107	May	7.55
1970	5.89	20.70	112	June	7.61
1971	6.02	21.20	120	July	8.42
1972	6.25	24.48	126	August	9.10
1973	7.30	32.80	146	September	9.67
1974	8.24	27.40	172	October	10.17
1975	8.64	20.62	186	November	10.24
				December	10.22

Table 2. PRICES RECEIVED AND PAID BY NEW YORK DAIRY FARMERS, 1965-1975

-4-



In recent years, all prices paid by New York dairy farmers have risen but some more than others. From 1967 to 1975, taxes rose 62%, feed 77%, fuel 80%, wages 86%, and fertilizer 124%. Feed, fertilizer, and motor fuel prices which had increased gradually over the years, have risen sharply since 1973. The average price of fertilizer in 1975 was 15% higher than for 1974 and fuel was 11%. In contrast, taxes for 1975 were up 5% and feed was down 4% from a year earlier.

	Index 1967=100						
Year	Feed	Fertilizer	Fuel	Wages	Taxes*		
1965	96	100	96	85	87		
1970	103	98	107	126	129		
1971	108	101	112	130	136		
1972	112	103	115	140	142		
1973	157	114	124	150	146		
1974	185	195	162	160	154		
1975	177	224	180	186	162		
increase							
4 to '75	-4%	15%	11%	16%	5%		

Table 3.	PRICES	PAID	BY	FARMERS	FOR	SELECTED	ITEMS.	1965-1975
	TUTODO -	*****	w	T TITTITU	* * * * *			TYAY TYYY

* Revised

-5-

SUMMARY OF THE FARM BUSINESS

Resources

Information on the resources used is basic in the analysis of any business. The tables on this page report on the resources used and characteristics of the 605 farm businesses included in this study.

Table 4.	BUSINESS	CHARA	CTER	ISTICS	AND	RESOURCES	USED
	605	5 New	York	Dairy	Farm	ns, 1975	

Type of Business Individual Partnership Corporation	No. % 488 81 104 17 13 2	Business Records CAMIS Account Book Agrifax Farm Bureau Agway Other	No. % 123 20 273 45 106 18 13 2 24 4 16 11	Dairy Records D.H.I.C. Owner Sampler Other None	<u>No. %</u> 344 56 116 19 39 6 116 19
Barn Type	<u>No. %</u>	Milking System	<u>No. %</u>	Milking System	
Stanchion		Bucket & carry		-	
Free stall		Dumping station		Other parlor	31 5
Other	11 2	Pipeline	196 32		
Labor Force	<u>My Farm</u>		Used		rms Acres
-					
Family paid					
Family unpaid		3 mo. Tota	l crop acres	6 6	05 217
Hired		<u>9 mo.</u> Crop	acres rente	ed 4	84 76
Total		29 mo.			
Age of operator(s)	42 Numbe	er of Cows	My Farm	Average
Estimated value					
and management	\$		age for year		72
Stanchion Free stall Other Labor Force Operator Family paid Family unpaid Hired Total Age of operator(s Estimated value operator's labor	389 64 205 34 11 2 <u>My Farm</u>	Bucket & carry Dumping station Pipeline <u>Average Land</u> 14 mo. Tota 3 mo. Tota 3 mo. Tota 3 mo. Tota 9 mo. Crop 29 mo. 42 <u>Number</u> Begin End of	27 5 187 31 196 32 Used Lacres owne Lacres rent crop acres acres rente er of Cows nning of year	Herringbone Other parlor My Farm Fa ed 6 ed 6	31 <u>rms</u> <u>Ac</u> 05 3 94 1 05 2 84 <u>Averag</u> 72 74

Eighty-two percent of the 605 operators rented some land and 76 of the 217 crop acres or 35 percent were rented.

The average total farm inventory increased from \$233,100 to \$248,200 or 6 percent during 1975. The increase reflects both growth in the businesses and inflation. Changes in prices of major inventory items are shown on page 3.

Table 5.

CAPITAL INVESTMENT - FARM INVENTORY VALUES 605 New York Dairy Farms, 1975

	My Farm		Average	605 Farms	Percent
	1/1/75	1/1/76	1/1/75	1/1/76	Increase
Livestock	\$	\$	\$ 49,006	\$ 51,826	+ 6%
Feed & supplies			18,220	20,435	+12
Machinery & equipt.			41,435	44,437	+ 7
Land & buildings			124,396	131,511	+ 6
Total	\$	\$	\$233,057	\$248,209	+ 6

Machinery and Real Estate Calculations

Capital outlay for machinery and buildings usually occur in large amounts which in turn are used over a number of years. Calculation of the depreciation to be charged to the 1975 business is shown below and is included as a farm expense on page 10.

Table 6.

MACHINERY DEPRECIATION 605 New York Dairy Farms, 1975

Item	My Farm	Average 605 Farms
Beginning Inventory Purchases Total (1) End Inventory Sales Total (2)	\$\$ \$	\$41,435 <u>8,234</u> \$49,669 \$44,437 <u>166</u> 44,603
DEPRECIATION (1 minus 2) Percent Depreciation	\$%	\$ 5,066 10%

Lost capital represents the difference between the cost of real estate purchased during the year and the amount these improvements added to the sale value of the real estate. It is <u>not</u> included in farm expenses since building depreciation is based on the full cost of new buildings and will account for the lost capital over the life of the building.

<u>Building depreciation</u> was reported by the farmer and included the 1974 income tax depreciation plus the estimated depreciation on any new building in 1975.

<u>Real estate appreciation</u> was estimated by each farm operator. This appreciation includes the increase in market value and the building depreciation for the beginning package of real estate. It averaged about 4 percent of the beginning real estate inventory. This is probably underestimated since farmers find it difficult to realize how much values have risen.

Table 7.

REAL ESTATE CALCULATIONS 605 New York Dairy Farms, 1975

Item	My Farm	Average 605 Farms
Beginning Inventory	\$	\$124,396
Plus Cost of Purchases	\$	\$ 5,448
Less Lost Capital		-808
Value Added		+4,640
Less Bldg. Depreciation	\$	\$-2,363
Less items sold	 And a state of the state of the	-137
Value Deducted		-2,500
Plus Appreciation		+4,975
End of Year Inventory	\$	\$131,511

Receipts

Receipts from a business should be large enough to cover the operating and overhead costs and leave a return for the operator's labor and management. Here we look at sources and amounts of receipts for this group of farms.

Table 8.

FARM RECEIPTS 605 New York Dairy Farms, 1975

		Average 6		
Item	My Farm	Per Farm	Per Cow	Percent
Milk sales	\$	\$81,206	\$1,128	91
Crop sales		886	12	1
Dairy cattle sold		4,725	66	6
Other livestock sales		976	14	1
Gas tax refunds		141	2	
Government payments		281	4	
Work off farm		76	1	
Custom machine work		138	2	
Miscellaneous		1,044	14	1
Total Cash Receipts	\$	\$89,473	\$1,243	100
Increase in livestock inventories		2,820	39	
Increase in feed and supplies		2,215	31	
TOTAL FARM RECEIPTS	\$	\$94,508	\$1,313	

A reasonably good 1975 crop season combined with high feed prices resulted in an average increase in feed and supply inventories of \$2,215. Cow prices rose some during the year, and cattle numbers increased so the 605 farms had a net increase in livestock inventories of \$2,820. The number of cows increased from 72 in the beginning to 74 at the end of year, and the average livestock inventory value per cow (including heifers) was \$681 at the beginning of the year and \$700 at the end, or an increase of \$19 per cow.

The average price received for milk sold in 1975 by the 605 farms was \$8.65. The state average was \$8.64 shown on page 4. Milk sales per cow averaged \$1,128 per cow for the 605 farms while the top 10 percent of the farms based on labor income averaged \$1,230 per cow (table 9).

Table 9.

INCOME ANALYSIS

Item	My Farm	Average 605 Farms	Top 10%
Average price per cwt. milk sold	\$	\$8.65	\$8.66
Milk sales per cow	\$	\$1,128	\$1,230
Total cash receipts per man	\$	\$37,280	\$47,320

The average price per hundredweight of milk sold by the 605 farms in 1975 was \$8.65. The average price is calculated by dividing the gross milk receipts for the year by the total pounds of milk sold. The variation in average price received is shown below.

Variation in Average Milk Price

Average Price	Fá	rms
Received for Milk	Number	Percent
Below \$8.00	19	3
\$8.00 - 8.24	54	9
8.25 - 8.49	190	31
8.50 - 8.74	189	31
8.75 - 8.99	57	9
9.00 - 9.24	42	7
9.25 - 9.49	33	6
9.50 or over		4
Total	605	100

Dairymen often say there is nothing they can do about the price received for milk. This may be true as it pertains to the price at a particular time, but the variation shown here does indicate that the average annual prices received for milk by farmers do vary. Management practices account for some of the differences. Seasonality of production and butterfat test are two management items that affect the average price for the year.

<u>Total farm receipts</u> are sometimes used as a measure of size of business. The Census of Agriculture uses this measure in classifying farms. The distribution of total farm receipts of the 605 farms in 1975 is shown below.

Distribution of Farms by	Total Farm	Receipts
Total	Far	ms
Farm Receipts	Number	Percent
Under \$ 40,000	56	9
\$ 40,000 - 49,999	64	11
50,000 - 59,999	66	11
60,000 - 69,999	70	12
70,000 - 79,999	72	12
80,000 - 89,999	48	8
90,000 - 99,999	38	6
100,000 - 119,999	51	8
120,000 - 149,999	41	7
150,000 - 199,999	50	8
200,000 or over	49	8
Total	605	100

Only 9 percent of the 605 farms had receipts under \$40,000 while 8 percent had receipts of \$200,000 or more.

Expenses

The farm expenses for the 605 farms averaged nearly \$250 per day. This provides many places for dollar leaks. The average expenses per farm and per cow are shown below.

		Average	Average 605 Farms		
Item	My Farm	Per Farm	Per Cow	Percent	
Labor					
Hired labor	\$	\$ 6,923	\$ 96	10	
Feed					
Dairy concentrate		22,460	312	32	
Other feed		1,081	15	1	
Machinery					
Machine hire		693	10	1	
Machinery repairs		4,079	57	6	
Auto expense (farm share)		315	4		
Gas and oil	<u></u>	2,735	38	4	
Livestock					
Purchased animals	·	2,146	30	3	
Breeding fees		988	14	1	
Veterinary and medicine		1,305	18	2	
Milk marketing		1,821	25	3	
Other livestock expense		2,716	38	4	
Crops					
Lime and fertilizer		4,607	64	7	
Seeds and plants		1,483	21	2	
Spray & other crop expense		1,263	18	2	
Real Estate					
Land, building, fence repair		1,430	20	2	
Taxes		2,050	28	3	
Insurance	····	1,379	19	2	
Rent	- <u></u>	1,130	16	2	
<u>Other</u>					
Telephone (farm share)		323	4		
Electricity (farm share)		1,381	19	2	
Interest paid		6,196	86	9	
Miscellaneous		1,084	15	2	
TOTAL CASH EXPENSES	\$	\$69,588	\$ 967	100	
Machinery depreciation		5,066	70		
Building depreciation		2,363	33		
Unpaid labor		1,050	14		
Interest on equity capital @ 7%		11,949	166		
Decrease in livestock inventory					
Decrease in feed & supply inventory					
TOTAL FARM EXPENSES	\$	\$90,016	\$1,250		

FARM EXPENSES 605 New York Dairy Farms, 1975

The cash expense classifications used on page 10 are taken from the "Cornell Farm Account Book." Lists of the items included in each category are presented on the inside back cover of that account book.

Interest paid on farm indebtedness was included as a cash expense in these summaries for the first time in 1973. Although debt payments usually include both interest and principal only the interest portion is included here.

<u>Machinery and real estate depreciation</u> - expenditures for machinery and buildings are usually made in large amounts. To include all the expenses in the year of purchase would inflate the farm expenses. Machinery depreciation was calculated on page 7, and the farmers reported their building depreciation as that shown on their income tax returns.

Unpaid family labor refers to work done by members of the family who are not paid cash wages. The operator estimates the number of months of unpaid labor. This is charged to the business at \$350 per month.

Interest on equity capital at 7 percent has been included as a noncash expense item. This represents what the operator might have earned on his equity capital had he not had it invested in the farm business. This is often called an "opportunity cost." The end-of-year farm net worth (see page 15) is used as the equity capital for computing this interest charge.

Decrease in livestock and feed inventories is the amount that the beginning inventory for each of these two items exceeds the end inventory. Since this indicates a "using up" of inventory items, it is considered as a farm expense for the year. For the 605 farms, the net inventory change was an increase for feed and supplies and livestock. Space is provided for individual farms that might have a decrease.

Farm expenses can be classified on the basis of fixed, variable, and capital items as shown below:

Overhead Expenses (Fixed)		Operating Expenses (Va	riable)
Land & building repairs	\$ 1,430	Labor	\$ 6,923
Property taxes	\$ 2,050	Feed	23,541
Insurance	1,379	Machinery repairs	4,079
Rent	1,130	Gas and oil	2,735
Electricity	1,381	Machine hire	693
Telephone	323	Auto	315
Total Fixed Overhead	\$ 7,693	Livestock purchased Livestock expenses	2,146 6,830
<u>Capital Expenses</u> Interest on equity capital Interest paid Machinery depreciation Real estate depreciation	\$11,949 6,196 5,066 2,363	Fertilizer and lime Other crop expenses Unpaid labor Miscellaneous Total Variable	4,607 2,746 1,050 <u>1,084</u> \$56,749
Total Capital Expenses	\$25,574		

On these farms, the variable expenses accounted for 63 percent, the fixed 9 percent, and the capital expenses 28 percent of the total farm expenses.

Financial Summary of Year's Business

The results of management are reflected in the net return from the business. Researchers have developed a number of ways to measure the returns from a farm business. Several common measures are reported here.

	605 New York Dairy Farms,	1975		
		Average 6	05 Farms	
Item	My Farm	Per Farm	Per Cow	
Cash Farm Receipts	\$	\$89,473	\$1,243	
Cash Farm Expenses		69,588	967	
NET CASH FARM INCOME	\$	\$19,885	\$ 276	

Table 11.NET CASH FARM INCOME605 New York Dairy Farms, 1975

<u>Net cash farm income</u> reflects the cash available from the year's operation of the business. Family living has first claim on cash income followed by fixed payments on debts. A family may have additional cash available if they have a nonfarm income. Cash flow is <u>not</u> a good measure of the profitableness of the business but it is useful when planning debt repayment programs.

Table 12.

LABOR AND MANAGEMENT INCOME 605 New York Dairy Farms, 1975

		Average 6	05 Farms
Item	My Farm	Per Farm	Per Cow
Iotal Farm Receipts	\$	\$94,508	\$1,313
Total Farm Expenses		90,016	1,250
ABOR & MANAGEMENT INCOME	\$	\$ 4,492	\$ 63
Number of Operators		(734) 1.21	
LABOR & MGT. INCOME/OPERATOR	\$	\$ 3,703	

Labor and management income is the return to the operator for his efforts in operating the business. A 7 percent charge for the use of the operator's equity capital in the business has been included as a farm expense. This interest charge reflects what the operator could have earned with this capital had it been invested elsewhere, such as in bank certificates. Labor and management income is the measure used most often for comparing farm businesses. The average <u>labor and management income per operator</u> for these 605 dairy farms was \$3,703. In addition, the operators had the use of a house and perquisites, such as milk and meat which should be included when considering the operator's net earnings. There was a wide range in the labor and management incomes as shown below. Thirty-seven percent of the farms had minus labor incomes for 1975 while six percent had labor incomes of \$20,000 or more.

Distribution	of La	bor and	Management	Incomes	Per Operator	

Labor and Management	F	arms
Income Per Operator	Number	Percent
\$-10,000 & Below	57	9
-9,9995,001	62	10
-5,0001	109	18
0 - 4,999	136	23
5,000 - 9,999	104	17
10,000 - 14,999	65	11
15,000 - 19,999	37	6
20,000 - 24,999	16	3
25,000 or More	19	3

Labor, management, and ownership income per operator reflects the combined return to the farmer for his triple role of worker-manager, financier, and owner. This measure includes appreciation on real estate, and return on equity capital, and is the amount available for the operator's living and his gain in business net worth. The average labor, management, and ownership income per operator was \$17,655 or nearly five times the labor and management income which explains in part how some farmers accumulate sizeable net worths with only modest labor incomes.

Table 13	3.	LABO
----------	----	------

ABOR, MANAGEMENT, AND OWNERSHIP INCOME 605 New York Dairy Farms, 1975

Item	My Farm	Average 605 Farms	Percent
Labor and management income/farm (p. 12)	Ś	\$ 4,492	21
Real estate appreciation (p. 7)		4,975	23
Interest on equity capital @ 7% (p. 10)		11,949	56
Total Per Farm	\$	\$21,416	100
Number of operators		(734) 1.21	
LABOR, MANAGEMENT, AND OWNERSHIP INCOME PER OPERATOR	\$	\$17,655	

<u>Management income</u> is another measure used in studying farm businesses. From labor and management income, the value of operator's labor is subtracted to get management income. In this study, operator's labor was valued at \$6,000. This gives a management income per operator of <u>minus</u> \$2,297 (\$3,703 minus \$6,000). If appreciation were included, the management income per operator would be \$1,815.

--- --- Annyana annon - Italanana ann --- An --- --- ---

<u>Return on Equity Capital</u> can be computed with or without real estate appreciation. To calculate return on equity capital (including real estate appreciation), the estimated value of operator's labor and management is deducted from labor, management, and ownership income. This return to equity capital is divided by the farm net worth to get the rate of return on equity capital. To compute return on equity capital, excluding real estate appreciation, real estate appreciation must be deducted from ownership income.

RETURN ON EQUITY CAPITAL 605 New York Dairy Farms, 1975

Item	My Farm Av. 605 Farms
	Including Real Estate Appreciation
Labor, Management & Ownership Income (p. 13)	\$\$21,416
Value of Operator's Labor & Management	(1.21) <u>12,739</u>
RETURN ON EQUITY CAPITAL	\$\$ \$ 8,677
Amount of Equity Capital	\$% \$170,700
RATE OF RETURN ON EQUITY CAPITAL	% 5.1%
	Excluding Real Estate Appreciation
Return on Equity Capital (from above)	\$\$8,677
Real Estate Appreciation	4,975
RETURN ON EQUITY CAPITAL	\$\$3,702
Amount of Equity Capital	\$%\$170,700
RATE OF RETURN ON EQUITY CAPITAL*	%2.2%

* The rate of return on the average capital was 4.1%.

The operators were asked to estimate the value of their labor and management on the basis of what they might be able to earn if they were to hire out in a similar position. The average estimate for the 734 operators was \$10,500. This is in line with the value if determined by the value of the labor plus a management charge based on 5 percent of the cash receipts.

Returns Per Unit of Input

Table 14.

Income from a business can also be calculated in relation to various input units. For example, since these are family-type farms, the labor and management return can be figured on a per man basis. Returns can also be figured on a per cow basis. These are shown below.

<u>Returns to All Labor</u>		Returns Per Cow	
Labor & mgt. income per farm	\$ 4,492	Net cash farm income/cow	\$276
Value hired labor	6,923	Labor & mgt. income/cow	\$63
Value unpaid labor	1,050	Labor, management and	
Total Returns to Labor	\$12,465	ownership income/cow	\$297
Average man equivalent	2.4		
Returns per man equivalent	\$5,194		
Returns per hour (3,000 hrs./yr.)	\$1.73		
	•		

Farm Family Financial Situation

Table 15.

FARM FAMILY FINANCIAL SITUATION 590 New York Dairy Farms, January 1, 1976

			Average 590 1	Farms
Item	My	Farm	Amount	Percent
Assets				
Livestock	\$		\$ 51,734	19
Feed and supplies			20,373	7
Machinery and equipment			44,308	16
Land and buildings			131,963	48
Co-op investment			4,032	1
Accounts receivable	······		7,291	3
Cash and checking accounts	·····		1,927	1
Total Farm Assets	:	\$	\$261,628	95
Savings accounts	Ŝ		\$ 2,998	1
Cash value life insurance	•		2,630	1
Stocks and bonds		•	1,627	1
Nonfarm real estate	1		2,726	1
Auto (personal share)			706	Mater water
All other			1,873	
Total Nonfarm Assets			12,560	100
TOTAL ASSETS	:	\$	\$274,188	
Liabilities				
Real estate mortgage	\$		\$ 48,884	54
Liens on cattle & equipment			30,402	33
Installment contracts			2,149	2
Notes and other farm debt			10,085	
Total Farm Liabilities	\$		\$ 91,520	100
Nonfarm Liabilities			502	
TOTAL LIABILITIES	9	\$	\$ 92,022	
Farm Net Worth (equity capital)	:	\$	\$170,108	
Family Net Worth	\$	\$	\$182,166	

The financial situation is an important part of the farm business summary. It has a direct effect on current cash outflow and future capital investment decisions. A farmer may have a good labor income but a high debt payment schedule may seriously restrict his management flexibility. In the 605 records for 1975, a total of 590 submitted financial situation statements.

Total farm assets accounted for 95 percent of the total assets. Real estate mortgages were the largest liability and accounted for 54 percent of all debts. Equity capital for the 590 farms averaged \$170,108, while the average equity capital for the 605 farms was \$170,700 (see p. 14). The difference comes from the variation in the 15 farms that did not submit financial statements.

		Average	Average
Measure	My Farm	590 Farms	Top 10% Farms
Percent equity	%	66%	74%
Farm debt per cow	\$	\$1,250	\$937
Available for debt service and living	\$	\$26,000	\$53,245
Scheduled annual debt payments	\$	\$15,700	\$18,835
Scheduled debt payment per cow	\$	\$214	\$168
Scheduled debt payment as % milk check	%	19%	14%

FINANCIAL MEASURES AND DEBT COMMITMENTS 590 New York Dairy Farms, January 1, 1976

<u>Equity capital</u>, or farm net worth, is the difference between the total farm inventory and the total farm liabilities. It represents the amount of farm capital provided by the operator.

<u>Percent equity</u> is the family net worth divided by the total assets. This indicates the general equity position of the family for credit purposes.

Farm debt per cow is total farm liabilities divided by number of cows. It indicates the relative debt load per production unit.

<u>Available for debt service and living</u> is the net cash farm income plus the interest paid. In planning debt repayments, subtract the expected family living expenses to determine the amount available for debts.

<u>Scheduled annual debt payments</u> represent the commitments outstanding as of January 1, 1976. When figured on a per cow or percent of milk check basis, the reasonableness of the debt commitment can be appraised.

As shown in table 17, there did not appear to be any definite relationship between herd size and percent equity or debt per cow.

			Total		Farm		Debt
Herd Size	Numb	er of	Farm	Farm*	Equity	Percent	Per
(Cows)	Farms	Cows	Assets	Liabilities	Capital	Equity	Cow
Under 40	88	31	\$128,800	\$ 36,900	\$ 91,900	73%	\$1,200
40 - 54	161	46	174,200	59,300	114,900	68	1,300
55 - 69	128	61	224,900	83,700	141,200	64	1,400
70 - 84	70	75	286,700	113,000	173,700	62	1,500
85 - 99	43	91	309,500	98,900	210,600	69	1,100
100 - 114	31	106	383,200	132,800	250,400	66	1,300
115 - 129	25	120	433,800	137,800	296,000	70	1,100
130 - 149	19	139	486,100	167,500	318,600	67	1,200
150 & Over	40	191	631,800	228,900	402,900	65	1,200

FINANCIAL SITUATION BY SIZE OF HERD 605 New York Dairy Farms, 1975

* For the 15 farms not submitting financial statements, liabilities were estimated by dividing the amount of interest paid by 7%.

Table 16.

Table 17.

ANALYSIS OF THE FARM BUSINESS

A systematic analysis of the operation helps to determine strengths and weaknesses in the business. In this part, five business factors are examined: size of business, rates of production, labor efficiency, capital efficiency, and cost control. The 1975 averages of selected measures for these factors for the 605 farms, and the average for the 10% with the highest labor and management incomes are reported along with general relationships of factors to labor income. Since the measures examined are interrelated, all factors should be studied before arriving at major conclusions.

Size of Business

Size has an effect on other factors such as labor efficiency, cost control, and capital efficiency. The prices received and paid are often affected by volume which is a function of size. Farm management studies show that in general larger farm businesses (when well managed) make larger labor incomes. Two basic reasons for this are that larger businesses make possible more efficient use of overhead inputs such as labor and machinery, and there are more units on which to make a profit.

Table 18.

MEASURES OF SIZE OF BUSINESS 605 New York Dairy Farms, 1975

Measure	My Farm	Av. 605 Farms	Av. Top 10% Farms
Number of cows		72	112
Number of heifers		54	88
Man equivalent		2.4	3.2
lotal acres in crops	······	217	331
Pounds of milk sold		938,600	1,589,000
fotal work units		803	1,242
Fotal cash receipts Fotal investment	\$	\$89,473	\$151,414
(end inventory)	\$	\$248,209	\$362,517

<u>Number of cows</u> is the average number in the herd for the year. Where available, the D.H.I.C. annual average is used.

<u>Total acres in crops</u> includes all acres on which crops were harvested during the 1975 year. It does not include cropland pasture or uncropped land.

<u>Man equivalent</u> is the amount of labor available on the farm during the year in terms of full-time man years. Work of part-time employees and family members is converted to full-time man equivalent.

<u>Total work units</u> represents the number of productive man days that would be required under average conditions to care for the acreage of crops grown and the number of livestock handled. A man work unit is the average amount of productive work accomplished in ten hours.

Number	Number	Percent	Labor & Manager	ent Income
of Cows	of Farms	of Farms	Per Operator	Per Cow
Under 40	88	14%	\$ 280	\$ 9
40 - 54	161	27	2,290	55
55 - 69	128	21	3,190	60
70 - 84	70	12	560	10
85 - 99	43	7	4,000	60
100 - 114	31	5	5,780	69
115 - 129	25	4	9,130	110
130 - 149	19	3	11,970	131
150 - 179	22	4	14,170	111
180 - 199	8	1	2,540	24
200 & Over	10	2	11,850	68

COWS PER FARM AND LABOR AND MANAGEMENT INCOME 605 New York Dairy Farms, 1975

Table 19.

The relation of size of business to labor and management income was observed for size as measured by number of cows and by man equivalent. In general, the larger the businesses the higher the labor incomes per operator. This relationship is consistent with that of earlier studies. A well-managed large farm will provide the operator a higher income than a well-managed small one, but a large farm poorly managed also can lose more.

The labor and management income for the 22 farms with 150 to 179 cows was much higher than for any other group. These farms averaged 162 cows, sold 522,700 pounds of milk per man, 28 percent of milk check went for feed, and they received an average of \$8.68 per cwt. of milk sold, and twenty had free stall barns. This group ranked high in the major factors affecting incomes. The 22 farms were scattered over 18 counties in all regions of the state.

Man equivalent is often used as a measure of size. It is of interest that 75 percent of the farms had man equivalents of less than 3.0 (table 20). Thirty-four percent of the farms had less than 2.0 men and only 10 percent had 4.0 or more. The farms with a man equivalent of 4.0 or more did have higher labor and management incomes per operator.

Man	Number	Percent	Number	Labor & Management
Equivalent	of Farms	of Farms	of Cows	Income Per Operator
1.0 - 1.4	89	15%	40	\$2,790
1.5 - 1.9	114	19	46	2,130
2.0 - 2.4	162	27	60	2,930
2.5 - 2.9	82	14	75	3,630
3.0 - 3.4	66	11	92	4,470
3.5 - 3.9	30	5	112	2,750
4.0 - 4.4	26	4	130	5,530
4.5 & Over	36	6	180	6,720

Table 20.MAN EQUIVALENT PER FARM AND LABOR AND MANAGEMENT INCOME605 New York Dairy Farms, 1975

Rates of Production

Production per animal and per acre are factors that affect farm incomes.

MEASURES OF RATES OF PRODUCTION 605 New York Dairy Farms, 1975

	My	Farm	Av. 60	5 Farms	Average Yield
Item	Acres	Yield	Acres	Yield	Top 10% Farms
Milk sold per cow (lbs.)			منبت عليه يسم	13,000	14,200
All hay crops (tons H.E./A.) Corn silage (tons/A.) All forage crops (tons H.E./A.)			120 59 179	2.6 14.0 3.3	3.1 15.9 3.9
Grain corn (bu./A.) Oats (bu./A.)			24 7	94 56	102 61

<u>Pounds of milk sold per cow</u> is calculated by dividing the total pounds of milk sold by the average number of cows.

Tons of hay crops per acre is calculated by adding the hay equivalent of hay crop silage and green chop to the dry hay and dividing by the total acres used for hay crops.

Tons of hay equivalent per acre of all forages is determined by adding tons of hay equivalent of corn silage to the tons of hay crops and dividing the total tons of hay equivalent from all roughage by the total acres used for roughages. This measure indicates how intensively the roughage land is used.

Studies have shown repeatedly that farms with higher rates of production tend to have higher labor incomes. In 1975, the farms with the higher rates of production tended to be larger, bought more feed per cow, and in general had higher incomes.

Table 22.	MILK SOLD PER COW AND LABOR AND MANAGEMENT IN	ICOME
	605 New York Dairy Farms, 1975	

Pounds of Milk	Number	Number	Feed Bought	Labor & Managem	ent Income
Sold Per Cow	of Farms	of Cows	Per Cow	Per Operator	Per Cow
Under 10,000	72	55	\$197	\$-2,170	\$-38
10,000 - 10,999	50	66	252	-2,420	-50
11,000 - 11,999	92	61	290	2,190	36
12,000 - 12,999	108	77	313	1,600	26
13,000 - 13,999	124	80	323	5,100	87
14,000 - 14,999	80	78	344	6,190	102
15,000 - 15,999	52	91	362	10,260	155
16,000 and Over	27	76	412	10,060	169
				_	

Labor Efficiency

Accomplishments per worker are used to measure labor efficiency. This is an important factor affecting labor and management incomes.

Table 23.

MEASURES OF LABOR EFFICIENCY 605 New York Dairy Farms, 1975

Measure	My Farm	Av. 605 Farms	Av. Top 10% Farms
Number of cows per man		30	35
Pounds of milk sold per man		387,900	501,300
Work units per man		332	392
Crop acres per man		90	103

<u>Pounds of milk sold per man</u> is determined by dividing the total pounds of milk sold by the man equivalent. This is probably the best measure of labor efficiency for dairy farms.

Labor accomplishments (efficiency) depends on a number of things. Among these are the amount of mechanization, the field and building layout, the work methods used, and the abilities of the workers. All of these are management items under the control of the operator.

The 10 percent of the farms with the highest labor and management incomes were considerably above the average of all 605 farms in the four measures of labor efficiency. The top 10 percent sold 30 percent more milk per man than the average of all farms.

The relationship of labor efficiency to labor income was positive on the 605 farms. The higher output per man was achieved by more and better cows.

Pounds of Milk	Number	Number	Lbs. Milk	Labor & Managem	ent Income
Sold Per Man	of Farms	of Cows	Per Cow	Per Operator	Per Cow
Under 250,000	94	43	10,500	\$-2,210	\$-56
250,000 - 299,999	77	52	11,800	-380	-5
300,000 - 349,999	106	65	12,200	1,440	24
350,000 - 399,999	96	69	13,100	3,700	70
400,000 - 449,999	89	78	13,400	4,240	70
50,000 - 499,999	51	90	13,500	5,540	79
500,000 - 599,999	64	113	14,300	10,210	123
500,000 and Over	28	131	14,400	15,770	168

Table 24.MILK SOLD PER MAN AND LABOR AND MANAGEMENT INCOME605 New York Dairy Farms, 1975

Capital Efficiency

The average end-of-year inventory on the 605 farms was \$248,209. This includes both owned and borrowed capital for all farms. About one-third was borrowed. The use of credit is part of capital management. Since capital is a key input item, it is important to analyze the use of capital in the business. The analysis in this section examines how efficiently the capital was used.

Table 25.MEASURES OF CAPITAL EFFICIENCY605 New York Dairy Farms, 1975

		Average	Average
Measure		605 Farms	Top 10% Farms
Total capital per man	\$	\$102,570	\$114,360
Total capital per cow	\$	\$3,450	\$3,240
Machinery & equipment per cow	\$	\$620	\$590
Land & building investment per cow	\$	\$1,830	\$1,550
Land & building investment/crop acre own	ned \$	\$930	\$800
Total capital per cwt. milk sold	\$	\$26	\$23
Capital turnover (capital + receipts)		2.6	2.2

Capital efficiency is often associated with size of herd. For this reason, the 605 farms were sorted on the basis of number of cows and the capital efficiency measures were calculated. There seemed to be a relationship between size and capital efficiency for the three items - machinery, real estate, and total capital. The farms with over 150 cows did have considerably lower investments per cow.

Number	Number	Cap:	ital Investment Pe	r Cow
of Cows	of Farms	Total	Real Estate	Machinery
Under 40	88	\$3,980	\$2,340	\$730
40 - 54	161	3,640	1,970	700
55 - 69	128	3,520	1,860	670
70 - 84	70	3,600	1,990	610
85 - 99	43	3,230	1,690	580
100 - 114	31	3,400	1,740	590
115 - 129	25	3,430	1,720	640
130 - 149	19	3,300	1,630	600
150 & Over	40	3,030	1,550	470

Table 26.	SIZE OF HERD	AND CAPITAL	EFFICIENCY
	605 New Yor	k Dairy Far	ns, 1975

Cost Control

Cost control is a big factor in the success of modern dairy operations. Feed, machinery, labor, and capital costs are major items and are examined in detail. In times of rising costs, it is especially important to check all items both large and small. Profitable businesses usually maintain a "tight" control on all costs.

Feed Costs

Feed is the largest single expense item on most New York dairy farms. For the 605 farms in 1975, dairy concentrate accounted for 32 percent of the cash operating expenses so feed is the first item examined.

Dairy feed costs are affected by many things. In 1975, feed prices were at near record highs. There is no satisfactory single measure of feed cost control so the feed situation is examined in the business analysis of feed costs. Below are some measures related to feed costs on a dairy farm.

Table 27.

ITEMS RELATED TO FEED COSTS 605 New York Dairy Farms, 1975

Item	My Farm	Average 605 Farms	Average Top 10% Farms
Feed bought per cow Crop expense per cow Feed bought per cwt. milk Feed & crop expense per cwt. milk % Feed is of milk sales	\$ \$ \$ \$%	\$312 \$102 \$2.39 \$3.18 28%	\$298 \$120 \$2.10 \$2.95 24%
Hay equivalent per cow Crop acres per cow Fertilizer & lime per crop acre Heifers as % of cow numbers	т. \$%	8.2 T. 3.0 \$21 75%	9.1 T. 3.0 \$26 79%

The average cost of feed bought per cow in 1975 was \$312 while in 1974 it was \$318. Likewise, the percent that feed bought is of milk sales was 28 percent in 1975 and 30 percent in 1974.

The crop situation in 1975 was good. Tons of hay equivalent produced per cow was 8.2 tons compared with 8.0 in 1974.

Feed costs include all feed for cows and heifers. Per cow costs are influenced markedly by the number of replacements on hand. Heifers as % of cow numbers must be considered when evaluating most of the per cow factors.

The 10 percent of farms with highest labor and management incomes spent more for crops, had more roughage per cow, and spent less for feed bought than the 605 farm average. The top income farms also had lower costs per cwt. milk sold. <u>Feed cost</u> is influenced by a number of factors. On the production side, it is affected by the amount of homegrown grains, quality and quantity of the roughage, and the number of youngstock. On the purchasing side, it is influenced by the farmer's ability to purchase concentrates at reasonable prices.

<u>Feed bought per cow</u> is calculated by dividing the total expense for dairy concentrate by the average number of cows. Because this also includes the amount spent for calf and heifer feed, it actually represents the feed cost per cow and the replacements being raised.

<u>Crop expense per cow</u> is the total spent for fertilizer and lime, seeds and plants, spray, and other crop expense divided by the average number of cows. This represents the direct cash costs for growing feed.

<u>Feed purchased as percent of milk receipts</u> is calculated by dividing feed purchased by milk receipts. This measure can be used to determine whether the feed costs are in line. The amount of homegrown grain must be considered as you evaluate this measure. Milk prices also influence this factor.

<u>Hay equivalent per cow</u> is calculated by converting all hay crop silage, green chop, and corn silage to a dry hay equivalent and adding it to the tons of dry hay harvested. Total tons of hay equivalent is divided by the average number of cows.

 $\underline{Crop\ acres\ per\ cow}$ is the total acres of cropland harvested divided by the average number of cows.

<u>Heifers as percent of cow numbers</u> is figured by dividing the number of heifers by the number of cows and multiplying by 100.

% Feed is	Number	Number	H.E.	Lbs. Milk	Labor and Management
of Milk	of Farms	of Cows	Per Cow	Per Cow	Income Per Operator
Over 40%	45	64	6.9	12,400	\$-2,000
35 - 39	93	72	7.6	12,800	1,900
30 - 34	130	72	7.7	12,900	2,100
25 - 29	140	70	8.0	12,500	4,200
20 - 24	93	77	8.2	12,400	3,800
Under 20%	104	79	8.7	12,500	7,000

Table 28.PERCENT PURCHASED FEED IS OF MILK RECEIPTS
AND LABOR AND MANAGEMENT INCOME
605 New York Dairy Farms, 1975

In general, the lower the percent of the milk check going for purchased feed the higher the income (table 28). Farms with a lower percent of the milk check going for purchased feed had more tons of hay equivalent per cow.

Machinery Costs

Machinery accounted for 18 percent of the farm inventory on these 605 farms, and the new purchases in 1975 averaged about \$8,200 per farm. The cost of owning and operating this machinery accounted for one-sixth of the total farm expenses. An examination of the machinery costs is a key part of a systematic analysis of a dairy farm business.

Table 29.

MACHINERY COST 605 New York Dairy Farms, 1975

		Average	605 Farms	Average
Item	My Farm	Amount	Percent	Top 10% Farms
Depreciation (from p. 7)	ş	\$ 5,066	32	\$ 6,104
Interest @ 7% on av. inventory	<u></u>	3,005	19	4,347
Machine hire	· · · · ·	693	4	973
Machinery repairs		4,079	26	6,634
Auto expense (farm share)		315	2	343
Gas and oil		2,735	_17	3,966
Total Machinery Costs	\$	\$15,893	100	\$22,367
Machinery cost:				
per cow	ş	\$221		\$200
per cwt. milk sold	ş	\$1.69		\$1.41

The machinery depreciation calculations were shown on page 7. Depreciation accounted for 32 percent of the total machinery costs and interest 19 percent. These two fixed cost items are often overlooked in a casual look at operating costs. Repairs were the second largest cost item and one which must be kept in line if costs are to be kept under control.

Machinery costs averaged \$221 per cow but 5 farms had costs of under \$100 while 67 had costs of \$300 and over. In general, the lower the machinery costs per cow the higher the labor and management income per operator.

Table 30.MACHINERY COST PER COW AND LABOR AND MANAGEMENT INCOME605 New York Dairy Farms, 1975

Number	Percent	Labor and Management
of Farms	of Farms	Income Per Operator
5	1	\$3,820
58	10	6,070
192	32	4,910
177	29	3,490
106	17	2,350
67	11	-2,300
	of Farms 5 58 192 177 106	of Farms of Farms 5 1 58 10 192 32 177 29 106 17

Labor Costs

Labor costs are sometimes overlooked in a farm business analysis. This is understandable since the farm family often provides a large part of the labor input. On these 605 farms, the family (including paid family labor) provided 69 percent of the months of labor inputs while hired nonfamily labor provided 31 percent (page 6). Family labor does have a value and in this section an analysis is made of the cost of all labor inputs.

		Average	605 Farms	Average
Item	My Farm	Amount	Percent	Top 10% Farms
Value operator's labor @ \$500/month	\$	\$ 7,000	47	\$ 7,500
Hired labor expense (from p. 10) (includes paid family labor)	· · · · · · · · · · · · · · · · · · ·	6,923	46	13,903
Unpaid family labor @ \$350/month		1,050	7	700
Total Labor Costs	\$	\$14,973	100	\$22,103
Labor cost per cow	\$	\$208		\$197
Labor cost per cwt. milk	\$	\$1.60		\$1.39
Cost per month hired labor	\$	\$577		\$662
Cost per month all labor	\$	\$516		\$582

The operator's labor was valued at \$500 per month. Unpaid family labor was valued at \$350 per month which is relatively low, but this is usually children or wives who would find it difficult to earn more than this amount off the farm with the hours they have available for work.

Labor and machinery operate as a "team" on a modern farm. The challenge is to get a combination that will give a reasonable cost per unit of milk sold.

Table 32.

LABOR AND MACHINERY COSTS 605 New York Dairy Farms, 1975

Item	My Farm	Av. 605 Farms	Av. Top 10% Farms
Total labor cost	\$	\$14,973	\$22,103
Total machinery cost		<u>15,893</u>	22,367
Total Labor and Machinery Costs	\$	\$30,866	\$44,470
Labor and machinery cost per cow	\$	\$429	\$397
Labor and machinery cost/cwt. milk	\$	\$3.29	\$2.80

Table 31.

LABOR COSTS 605 New York Dairy Farms, 1975

Combination of Factors

Individual factors have been examined in the analysis up to this point. It has been suggested that these factors are interrelated. In this section, the combination of four important factors is studied. The factors used here are size, rates of production, labor efficiency, and cost control as measured by number of cows, pounds of milk sold per cow, pounds of milk sold per man, and percent purchased feed was of milk receipts.

For each factor, the farms were divided on the basis of whether they were above or below the average for the 605 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.

Tab	1e	33.

COMBINATION OF FACTORS ABOVE AVERAGE* AND LABOR AND MANAGEMENT INCOME 605 New York Dairy Farms, 1975

Number of Factors Above Average	Number of Farms	Percent of Farms	Labor and Management Income Per Operator
4 Factors better than average	62	10%	\$11,900
3 Factors better than average	124	21	7,200
2 Factors better than average	160	26	3,600
1 Factor better than average	164	27	-600
0 Factors better than average	95	16	-800

* Factors were:

Size - number of cows - average 72.

Rates of production - pounds of milk sold per cow - average 13,000.

Labor efficiency - pounds of milk sold per man - average 387,900.

Cost control - percent purchased feed was of milk receipts - average 28%.

The relationship between the number of factors better than average and labor income is shown in table 33. As the number of factors better than average decreased, labor incomes decreased at a rapid rate. 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.

Farm Business Chart

The Farm Business Chart is a tool which can be used in analyzing a business to determine the strong and weak points. The figure at the top of each column is the average of the top 10 percent of the 605 farms for that factor. The other figures in each column are the average for the second 10 percent, third 10 percent, etc. Each column of the chart is independent of the others. The farms which are in the top 10 percent for one factor would <u>not</u> necessarily be the same farms which make up the top 10 percent for any other factor.

Size of Business		Rate	es of Produ	ction	Labor Efficiency		
Man	No.	Pounds	Pounds	Tons Hay	Tons Corn	Cows	Pounds
Equiv-	of	Milk	Milk Sold	Crops	Silage	Per	Milk Sold
alent	Cows	Sold	Per Cow	Per Acre	Per Acre	Man	Per Man
5.0	173	2,362,600	16,100	4.8	21	45	605,800
3.4	110	1,509,800	14,800	3.7	18	38	501,300
2.9	86	1,131,300	14,100	3.2	16	34	445,600
2.5	72	918,300	13,600	2.9	15	32	410,800
2.3	63	794,500	13,000	2.7	14	30	375,900
. 2.1	57	704,800	12,500	2.4	13	28	347,000
1.9	50	623,600	11,900	2.2	12	26	321,100
1.6	45	537,700	11,300	2.0	11	24	285,900
1.4	39	442,300	10,300	1.6	9	21	242,800
1.2	29	310,000	8,400	1.2	6	17	176,000

FARM BUSINESS CHART FOR FARM MANAGEMENT COOPERATORS 605 New York Dairy Farms, 1975

Feed Bought		Machinery	Labor and	Feed and Crop	
Per	% of Milk	Cost	Machinery	Expense Per	
Cow	Receipts	Per_Cow	<u>Cost Per Cow</u>	Cwt. Milk	
\$128	13%	\$123	\$297	\$1.99	
192	19	159	342	2.44	
233	23	177	364	2.72	
266	25	191	389	2.93	
291	27	205	414	3.10	
318	30	221	442	3.23	
349	32	238	468	3.39	
380	34	259	495	3.59	
417	36	289	536	3.84	
497	43	355	636	4.40	

The cost control factors are ranked from low to high, but the <u>lowest cost is</u> <u>not necessarily the most profitable</u>. Many things affect the level of costs, and these items must be taken into account when analyzing the factors.

This chart can be used to analyze a dairy business by drawing a line through the figure in each column which represents the level of management for this farm.

SUPPLEMENTAL INFORMATION

Cost of Producing Milk

The cost of producing milk can be calculated from the farm business summary when the operations have dairy as the only principal enterprise. The average cost per hundredweight of producing milk in 1975 on the 605 farms and comparisons with earlier years is shown on page 29.

Comparison by Herd Size

In making an analysis of an individual farm business, it is helpful to compare it with businesses of similar size. On pages 30 to 35, the business summary, business factors, and financial situation for the 605 farms are shown for nine herd size groups. These data also can be used to study the effect of size on the many aspects of dairy farm businesses.

Farms With Free Stall Barns

There has been much interest in free stall barns in recent years. In the 1975 Summary, a total of 205 reported free stall facilities and were included in a special analysis which is reported on page 36.

Milking Systems

New types of milking systems have been introduced on many dairy farms in the past decade. The 1975 cooperators reported the kind of milking system in use on their farm. The 605 farms have been sorted by type of milking system and selected business factors for them are reported on page 37.

Type of Business Organization

Three types of business organization were included in the 605 farms. Summaries were prepared for: individual operators; partnerships; and corporations. The three summaries are compared on pages 38 and 39.

Same Farms for 1974 and 1975

There is some turnover each year in the cooperators in the business management projects. Of the 605 farms in 1975, 436 had been in the 1974 summary. A comparison of the 1974 and 1975 businesses of the same 436 farms is reported on pages 40 and 41.

Trends

A manager must keep abreast of current trends if he is to keep his business in tune with the times. Trends can be observed in different ways. One way is to compare similar business studies that have been made. On page 42, selected farm business summary factors are given for 1965, 1970, 1974 and 1975.

Operating Statements

In establishing goals, it is helpful to know what the "better" businesses do. For this purpose, an operating statement for the 10 percent of the farms with the highest labor incomes is on page 45.

Operating statements are included for two groups who participated in the farm business management projects but were not in the 605 farm analysis. These are the farms that had crop sales which were equal to 10 percent or more of the milk receipts and were classified as "dairy-cash crop" operations. The other group is the "renter" operators. See pages 43 and 44.

· · · · · · · · ·

-28-

Cost of Producing Milk

The "farm unit" method is used here to compute cost of producing milk. Farm expenses include all costs except the operator's labor and management. Non-milk receipts are deducted on the assumption they were produced at cost.

Table 34.

FARM COST OF PRODUCING MILK 605 New York Dairy Farms, 1975

Item	Му	Farm	Average 605 Farms
Total cash farm expenses (p. 10)	\$		\$69,588
Machinery depreciation			5,066
Building depreciation			2,363
Unpaid labor			1,050
Interest on equity capital @ 7%			11,949
TOTAL FARM EXPENSES	\$		\$90,016
Value Operator's Labor @ \$500/mo.			7,000
TOTAL COST OF PRODUCTION (1)		\$	\$97,016
Total cash farm receipts (p. 8)	\$		\$89,473
Less: Milk sales			81,206
Non-milk cash receipts			\$ 8,267
Increase feed & supplies			2,215
Increase of 2 cows @ \$700			1,400
TOTAL OTHER INCOME (2)			11,882
COST OF PRODUCING MILK (minus 2)		\$	\$85,134
Hundredweights of milk sold (p. 17)			9,386
COST OF PRODUCING CWT. MILK		\$	<u>\$9.07</u>
Management charge @ 5% cash receipts	\$		\$4,474
Management charge cwt. milk	- <u></u>		48¢
COST OF PRODUCING MILK WITH MGT. CHARGE		\$	\$9.55

Changes in cattle prices can cause a change in livestock inventories even though there are no changes in cattle numbers. To correct for this, the dollar change in livestock inventory is omitted and the change in cow numbers (increase of 2 cows) is valued at the average year-end livestock inventory value per cow (includes replacement heifers) and included as non-cash income. For 1975, the increase in value of the 2 additional cows was \$1,400, while the increase in livestock inventories was \$2,820.

Table 35. COST OF PRODUCING MILK AND PRICES RECEIVED, 1970-1975

W	Value Operator's		Cost/Cut. Wit	th Management	Average Price		
<u>Year</u>	Labor	Management*	Excluded	Included	Received	Reported**	
1970	\$5,400	\$2,853	\$5.73	\$6.08	\$6.10	\$5.89	
1971	5,400	3,037	5.84	6.19	6.21	6.02	
1972	6,000	3,275	6.43	6.80	6.41	6.25	
1973	6,000	3,689	7.26	7.69	7.30	7.30	
1974	6,000	4,330	8.34	8.82	8.57	8.24	
1975	6,000	4,474	9.07	9.55	8.65	8.66	

* Estimated @ 5% of cash receipts.

** New York-New Jersey Milk Marketing Area.

Table 36.

FARM BUSINESS SUMMARY BY HERD SIZE 605 New York Dairy Farms, 1975

		Farms		
	Less Than	40 to	55 to	70 to
Item	40 Cows	54 Cows	69 Cows	84 Cows
Capital Investment (end of year)				
Livestock	\$ 21,274	\$ 33,694	\$ 43,746	\$ 53,472
Feed and supplies	7,194	10,754	16,803	21,341
Machinery and equipment	22,571	32,409	40,750	45,745
Land and buildings	72,394	90,634	113,546	149,533
TOTAL INVESTMENT	\$123,433	\$167,491	\$214,845	\$270,091
Receipts				
Milk sales	\$ 31,880	\$ 50,068	\$ 65,468	\$ 82,597
Dairy cattle sold	2,102	3,022	3,901	4,858
Other livestock sales	510	621	1,025	854
Crop sales	291	527	720	719
Miscellaneous receipts	927	1,061	1,249	1,329
Total Cash Receipts	\$ 35,710	\$ 55,299	\$ 72,363	\$ 90,357
Increase in livestock	867	1,852	2,238	2,047
Increase in feed & supplies	594	1,217	2,127	2,200
TOTAL FARM RECEIPTS	\$ 37,171	\$ 58,368	\$ 76,728	\$ 94,604
Expenses				
Hired labor	\$ 1,182	\$ 2,240	\$ 4,463	\$ 6,563
Dairy feed	9,500	14,162	18,194	23,488
Other feed	462	745	599	973
Machine hire	235	318	612	778
Machinery repair	1,369	2,255	3,223	3,970
Auto expense (farm share)	223	297	284	396
Gas and oil	1,247	1,714	2,287	2,862
Purchased animals	861	1,478	1,508	2,654
Breeding fees	421	630	758	1,003
Veterinary and medicine	474	829	950	1,365
Milk marketing	700	1,198	1,373	1,814
Other livestock expense	1,203	1,902	2,433	2,927
Fertilizer and lime	1,286	2,485	3,696	4,814
Seeds and plants	476	992	1,192	1,352
Spray and other crop expense	454	692	934	1,311
Land, bldg., fence repair	721	1,067	1,304	1,088
Taxes and insurance	1,753	2,292	2,860	3,757
Electric & phone (farm share)	870	1,186	1,519	1,844
Interest paid	2,207	3,988	5,279	7,317
Miscellaneous expenses	700	1,169	1,541	1,319
Total Cash Expenses	\$ 26,344	\$ 41,639	\$ 55,009	\$ 72,625
Machinery depreciation	2,142	3,570	4,753	5,785
Building depreciation	908	1,494	1,967	2,105
Unpaid family labor	1,050	1,050	1,400	1,050
Interest on equity @ 7%	6,444	8,081	9,910	12,256
Decrease in livestock				12,230
TOTAL FARM EXPENSES	\$ 36,888	\$ 55,834	\$ 73,039	\$ 93,821
Financial Summary				
Total Farm Receipts	\$ 37,171	\$ 58,368	\$ 76,728	\$ 94,604
Total Farm Expenses	36,888	55,834	73,039	93,821
Labor & Mgt. Income	\$ 283	\$ 2,534	\$ 3,689	\$ 783
Number of operators	1.02	1.11	1.16	1.40
LABOR & MGT. INCOME/OPERATOR	\$ 277	\$ 2,293	\$ 3,191	\$ 559

Table 36. contd.

FARM BUSINESS SUMMARY BY HERD SIZE 605 New York Dairy Farms, 1975

	Farms With:						
	85 to	100 to	115 to	130 to	150 or		
Item	99 Cows	114 Cows	129 Cows	149 Cows	More Cows		
Capital Investment (end of year)							
Livestock	\$ 62,813	\$ 78,489	\$ 89,955		\$134,131		
Feed and supplies	24,860	35,246	37,769	46,139	59,292		
Machinery and equipment	52,339	61,976	76,231	82,973	90,198		
Land and buildings	153,759	184,241	207,014	And a second	295,192		
TOTAL INVESTMENT	\$293,771	\$359,952	\$410,969	\$458,643	\$578,813		
Receipts							
Milk sales	\$101,871	\$126,780	\$141,434	\$169,514	\$225,860		
Dairy cattle sold	6,509	8,811	6,900	8,747	11,403		
Other livestock sales	1,005	1,104	2,078	1,235	2,547		
Crop sales	1,128	1,569	1,509	1,434	3,028		
Miscellaneous receipts	<u> </u>	2,971	3,422	2,842	5,131		
Total Cash Receipts	\$112,230	\$141,235	\$155,343	\$183,772	\$247,969		
Increase in livestock	2,613	3,379	5,196	6,062	10,987		
Increase in feed & supplies	3,523	2,680	6,054	7,557	3,407		
TOTAL FARM RECEIPTS	\$118,366	\$147,294	\$166,593	\$197,391	\$262,363		
Expenses							
Hired labor	\$ 8,856	\$ 13,201	\$ 14,833	\$ 16,747	\$ 30,347		
Dairy feed	27,716	34,131	39,753	44,914	60,060		
Other feed	1,939	1,365	1,059	1,397	4,248		
Machine hire	898	658	1,387	1,093	2,500		
Machinery repair	5,254	6,632	7,506	10,267	11,997		
Auto expense (farm share)	463	305	413	478	254		
Gas and oil	3,321	4,358	4,379	5,854	6,940		
Purchased animals	3,570	2,401	2,939	2,862	6,256		
Breeding fees	1,450	1,678	1,564	2,341	2,355		
Veterinary and medicine	1,647	2,088	2,381	3,275	3,496		
Milk marketing	1,677	2,185	2,811	4,133	6,396		
Other livestock expense	2,986	4,582	4,178	4,630	6,289		
Fertilizer and lime	6,060	7,683	7,730	10,887	14,133		
Seeds and plants	2,079	2,461	2,238	3,459	4,035		
Spray and other crop expense	1,835	2,120	1,769	2,602	4,084		
Land, bldg., fence repair	1,298	2,318	2,132	3,128	3,661		
Taxes and insurance				5,774			
Electric & phone (farm share)							
Interest paid	6,900	9,380	9,894	12,099	16,484		
Miscellaneous expenses				5,545			
Total Cash Expenses	\$ 87,384	\$110,234	\$119,723	\$144,277	\$201,133		
				7,636			
Building depreciation	2,727	3,818	4,093	4,253	7,280		
Unpaid family labor	1,050	700	1,050	700	700		
Interest on equity @ 7%	14,743	17,530	20,753	22,263	27,876		
Decrease in livestock							
TOTAL FARM EXPENSES	\$112,874	\$140,022	\$153,445	\$179,129	\$247,192		
Financial Summary							
	\$118.366	\$147.294	\$166.593	\$197,391	\$262.363		
				179,129			
	\$ 5.492	\$ 7.272	\$ 13,148	\$ 18,262	\$ 15,171		
Number of operators				1.53			
			_ , , , ,		anu v ∵y anu		
LABOR & MGT. INCOME/OPERATOR	\$ 4 002	¢ 5 701	¢ 0 101	6 11 0/ -			
OF & HOI. INCOME/ OF ERAIOR	9 4,003	φ 5,/8 Ι	۶ 9,131	\$ 11,967	\$ 10,646		
	1.05 كل مى مەرىپىرىك قارىك كەرىپىرىك يېرىك قارىك كەرىپىرىك قارىك كەرىپىرىك قارىك كەرىپىرىك قارىك كەرىپىرىك قارى مەرىپىرىك كەرىپىرىك يېرىك كەرىپىرىك كەرىپىرىك كەرىپىرىك قارىك كەرىپىرىك قارىك كەرىپىرىك قارىك كەرىپىرىك قارىك كە		· · · · · · · · · · · · · · · · · · ·	······································			

Table 37.

SELECTED BUSINESS FACTORS BY HERD SIZE 605 New York Dairy Farms, 1975

	Farms with:						
	Less Than	40 to	55 to	70 to			
Item	40 Cows	54 Cows	69 Cows	84 Cows			
Number of farms	88	161	128	70			
Size of Business							
Number of cows	31	46	61	75			
Number of heifers	21	34	47	55			
Pounds of milk sold	373,400	587,400	765,300	948,800			
Man equivalent	1.5	1.8	2.3	2.7			
Total work units	358	516	685	834			
Crop acres	108	145	190	225			
Rates of Production							
Milk sold per cow	12,000	12,800	12,600	12,600			
Tons hay crops per acre	2.1	2.3	2.5	2.7			
Tons corn silage per acre	12.9	13.2	14.0	14.3			
Bushels of oats per acre	58	56	52	50			
Labor Efficiency	50	50	52	50			
Cows per man	21	26	27	28			
Pounds milk sold per man	248,900	335,700	340,100	355,400			
Work units per man	239	295	304	312			
Feed Costs	237	275	504	512			
Feed purchased per cow	\$306	\$308	\$298	\$313			
Crop expense per cow	\$71	\$91	\$95	\$100			
Feed cost per cwt. milk	\$2.54	\$2.41	\$2.38	\$2.48			
Feed & crop exp./cwt. milk	\$3.14	\$3.12	\$3.14	\$3.26			
% Feed is of milk receipts	30%	28%	28%	28%			
Hay equivalent per cow	7.4	7.9	8.2	20%			
Crop acres per cow	3.5	3.2	3.1				
Fertilizer & lime/crop acre	\$12			3.0			
Machinery and Labor Costs	912	\$17	\$19	\$21			
	\$6 757	¢10 277	612 022	¢16 010			
Total machinery costs	\$6,757	\$10,377	\$13,933	\$16,919			
Machinery cost per cow	\$218	\$226	\$228	\$226			
Machinery cost/cwt. milk	\$1.81	\$1.77	\$1.82	\$1.78			
Labor cost per cow	\$266	\$213	\$211	\$215			
Labor cost per cwt. milk	\$2.20	\$1.67	\$1.68	\$1.70			
Capital Efficiency	***						
Investment per man	\$82,289	\$95,709	\$95,487	\$101,158			
Investment per cow	\$3,982	\$3,641	\$3,522	\$3,601			
Investment per cwt. milk	\$33	\$29	\$28	\$28			
Land & buildings per cow	\$2,335	\$1,970	\$1,861	\$1,994			
Machinery investment/cow	\$728	\$705	\$668	\$610			
Capital turnover	3.3	2.9	2.8	2.9			
Other							
Price per cwt. milk sold	\$8.54	\$8.52	\$8.55	\$8.71			
Acres hay crops	79	91	112	122			
Acres corn silage	16	34	48	66			
Inventory changes 1975*:							
Number of cows	0	+1	0	+1			
Inv. value per cow**	+\$27	+\$25	+\$37	+\$18			

* Change from 1/1/75 to 1/1/76. ** Livestock inventory includes heifers.

Table 37.

contd.

SELECTED BUSINESS FACTORS BY HERD SIZE 605 New York Dairy Farms, 1975

	Farms With:						
	85 to	100 to	115 to	130 to	150 or		
Item	99 Cows	114 Cows	129 Cows	149 Cows	More Cows		
Number of farms	43	31	25	19	40		
Size of Business							
Number of cows	91	106	120	139	191		
Number of heifers	69	85	88	102	138		
Pounds of milk sold	1,190,100	1,445,700	1,627,100	1,922,100	2,572,300		
Man equivalent	2.9	3.3	3.6	3.8	5.2		
Total work units	1,003	1,186	1,323	1,529	2,070		
Crop acres	260	334	339	412	511		
Rates of Production							
Milk sold per cow	13,100	13,600	13,600	13,800	13,500		
Tons hay crops per acre	2.8	3.1	2.9	2.9	3.2		
Tons corn silage/acre	14.0	14.9	13.2	15.6	14.4		
Bushels oats/acre	63	58	64	46	72		
Labor Efficiency							
Cows per man	31	33	34	36	37		
Pounds milk sold/man	407,600	444,800	454,500	501,800	497,500		
Work units per man	343	365	370	399	400		
Feed Costs	0.0		0,0				
Feed purchased per cow	\$305	\$322	\$331	\$323	\$314		
Crop expense per cow	\$110	\$116	\$98	\$122	\$117		
Feed cost per cwt. milk	\$2.33	\$2.36	\$2.44	\$2.34	\$2.33		
Feed & crop exp./cwt. milk	\$3.17	\$3.21	\$3.16	\$3.22	\$3.20		
% Feed is of milk receipts	27%	27%	28%	26%	27%		
Hay equivalent per cow	7.5	8.8	8.3	8.7	8.3		
Crop acres per cow	2.9	3.2	2.8	3.0	2.7		
Fertilizer & lime/crop acre	\$23	\$23	\$23	\$26	\$28		
Machinery and Labor Costs	¥23	¥2.3	Ϋ23	Υ 2 0	φ20		
Total machinery costs	\$20,407	\$23,943	\$26,608	\$30,670	\$37,880		
Machinery cost per cow	\$224	\$226	\$222	\$221	\$198		
Machinery cost/cwt. milk	\$1.71	\$1.66	\$1.64	\$1.60	\$1.47		
Labor cost per cow	\$197	\$202	\$203	\$190			
Labor cost/cwt. milk	\$1.50	\$1.48	\$1.50	\$1.38	\$1.54		
Capital Efficiency	φ τ •30	9 1 .40	31.00	9T*20	9T+04		
Investment per man	\$100,607	\$110,754	\$114,796	\$119,750	\$111,956		
Investment per cow	\$3,228	\$3,396	\$3,425	\$3,300	\$3,030		
Investment/cwt. milk	\$3,220	\$3,390	\$3,425	\$3,500 \$24	\$3,030 \$22		
Land & buildings/cow	\$1,690	\$1,738	\$1,725				
Machinery investment/cow	\$575	\$585	\$635	\$1,626	\$1,546		
Capital turnover	2.5			\$597	\$472		
-	2.0	2.4	2.5	2.3	2.2		
Other Price per cut milk sold	60 EL	60 77	60 (0	60.00	60 70		
Price per cwt. milk sold	\$8.56	\$8.77	\$8.69	\$8.82	\$8.78		
Acres hay crops	128	164	174	217	225		
Acres corn silage	71	84	111	111	181		
Inventory changes 1975*:		~					
Number of cows Inv. value per cow**	+2 +\$13	0	+2	+3	+9		
$(\Pi V, VALUE DET COURT$	+311	+\$31	+\$31	+\$28	+\$25		

* Change from 1/1/75 to 1/1/76

** Livestock inventory includes heifers.

Table 38.

FARM FAMILY FINANCIAL SITUATION BY HERD SIZE 590* New York Dairy Farms, January 1, 1976

	Farms With:						
	Less than	40 to	55 to	70 to			
Item	40 Cows	54 Cows	69 Cows	84 Cows			
Number of farms	87	157	123	69			
Assets							
Livestock	\$ 21,230	\$ 33,766	\$ 43,516	\$ 53,592			
Feed and supplies	7,168	10,786	16,800	21,305			
Machinery & equipment	22,437	32,425	41,003	45,509			
Land and buildings	72,818	91,034	113,919	149,719			
Co-op investment	1,974	1,672	2,825	4,212			
Accounts receivable	2,115	3,354	5,074	9,684			
Cash & checking accounts	1,075	1,164	1,789	2,690			
Total Farm Assets	\$128,817	\$174,201	\$224,926	\$286,711			
Savings accounts	1,699	2,615	3,467	3,342			
Cash value life insurance	2,439	2,504	2,996	2,818			
Stocks and bonds	1,964	1,625	1,555	357			
Nonfarm real estate	1,842	1,159	1,947	3,191			
Auto (personal share)	678	616	761	866			
All other	1,162	1,716	1,884	1,937			
Total Nonfarm Assets	\$ 9,784	\$ 10,235	\$ 12,610	\$ 12,511			
TOTAL ASSETS	\$138,601	\$184,436	\$237,536	\$299,222			
<u>Liabilities</u>							
Real estate mortgage	\$ 21,347	\$ 35,037	\$ 45,815	\$ 63,667			
Liens on cattle & equipt.	11,086	18,044	26,172	34,514			
Installment contracts	948	1,800	2,191	2,836			
Notes & other farm debts	3,527	4,378	9,557	11,945			
Total Farm Liabilities	\$ 36,908	\$ 59,259	\$ 83,735	\$112,962			
Nonfarm Liabilities	1,010	122	633	622			
TOTAL LIABILITIES	\$ 37,918	\$ 59,381	\$ 84,368	\$113,584			
Farm Net Worth (Equity Capital)	\$ 91,909	\$114,942	\$141,191	\$173,749			
FAMILY NET WORTH	\$100,683	\$125,055	\$153,168	\$185,638			
Financial Measures							
Percent equity	73%	68%	64%	62%			
Farm debt per cow	\$1,153	\$1,261	\$1,351	\$1,486			
Available for debt service	, , – – –	, , ,					
and living	\$11,469	\$17,540	\$22,701	\$24,675			
Scheduled annual debt payments	\$6,598	\$9,685	\$14,949	\$18,959			
Scheduled debt payment/cow	\$206	\$206	\$241	\$249			
Scheduled debt payment as % of milk check	21%	19%	23%				

* 15 of the 605 farms did not report.

Table 38.

contd.

FARM FAMILY FINANCIAL SITUATION BY HERD SIZE 590* New York Dairy Farms, January 1, 1976

590*	New	York	Dairy	Farms,	January	l,	1976	

	Farms With:					
	85 to	100 to	115 to	130 to	150 or	
Item	99 Cows	114 Cows	129 Cows	149 Cows	More Cows	
Number of farms	43	31	24	18	3 8	
Assets						
Livestock	\$ 62,815	\$ 78,490	\$ 90,053	\$104,263	\$135 ,5 83	
Feed and supplies	24,861	35,246	38,544	44,605	59,929	
Machinery & equipment	52,339	61,977	77,313	80,416	90,548	
Land and buildings	153,760	184,242	207,940	228,346	301,685	
Co-op investment	4,533	9,127	6,475	10,624	12,683	
Accounts receivable	8,294	11,295	11,670	15,438	27,214	
Cash & checking accounts	2,876	2,836	1,777	2,376	4,157	
Total Farm Assets	\$309,478	\$383,213	\$433,772	\$486,068	\$631,799	
Savings accounts	2,953	5,408	7,593	2,020	1,056	
Cash value life insurance	2,136	2,244	2,600	3,314	2,633	
Stocks and bonds	3,950	325	2,396	1,413	1,447	
Nonfarm real estate	860	1,354	15,820	9,000	4,894	
Auto (personal share)	607	577	858	643	829	
All other	569	2,553	2,628	2,468	4,154	
Total Nonfarm Assets	\$ 11,075	\$ 12,461	\$ 31,895	\$ 18,858	\$ 15,013	
TOTAL ASSETS	\$320,553	\$395,674	\$465,667	\$504,926	\$646,812	
Liabilities						
Real estate mortgage	\$ 52,400	\$ 68,203	\$ 71,347	\$ 79,725	\$103,690	
Liens on cattle & equipt.	33,890	51,319	44,123	70,482	83,250	
Installment contracts	2,259	3,363	1,921	6,393	1,970	
Notes and other farm debt	10,314	9,896	20,421	10,907	39,985	
Total Farm Liabilities	\$ 98,863	\$132,781	\$137,812	\$167,507	\$228,895	
Nonfarm Liabilities	34	572	1,066	44	597	
TOTAL LIABILITIES	\$ 98,897	\$133,353	\$138,878	\$167,551	\$229,492	
Farm Net Worth	\$210,615	\$250,432	\$295,960	\$318,561	\$402,904	
(Equity Capital)	+ = = = = = = = = = = = = = = = = = = =	7230,432	<i>4233,300</i>	+510,501	++02,204	
FAMILY NET WORTH	\$221,656	\$262,321	\$326,789	\$337,375	\$417,320	
Financial Measures						
Percent equity	69%	66%	70%	67%	65%	
Farm debt per cow	\$1,086	\$1,253	\$1,148	\$1,205	\$1,180	
Available for debt service	Ŷ I 3000	ل ر ـ ـ و ـ ـ ٢	Y1,170	AT \$ 500	41,100	
and living	\$31,741	\$40,375	\$46,192	\$53,782	\$63,326	
Scheduled annual debt payments	\$17,992	\$24,515	\$20,815	\$28,360	\$38,194	
Scheduled debt payment/cow	\$198	\$231	\$20,813	\$20,300	\$38,194 \$197	
Scheduled debt payment as	4120	92 3 1	9T19	9204	\$T21	
% of milk check	18%	19%	15%	17%	17%	
			-270		2.70	

* 15 of the 605 farms did not report.

	Herd Size (Number Cows)						
Item	Under 55	55-69	70-99	100-149	150 & Over		
Number of farms							
Free stall	17	42	56	55	35		
Other	232	86	57	20	5		
Number of men							
Free stall	1.8	2.2	2.4	3.4	5.0		
Other	1.8	2.3	2.8	3.8	5.5		
Land & bldgs./cow							
Free stall	\$2,170	\$1,810	\$1,800	\$1,680	\$1,5 70		
Other	\$2,040	\$1,890	\$1,930	\$1,770	\$1,400		
Tons hay crop/acre							
Free stall	2.8	2.6	2.9	3.0	3.3		
Other	2.2	2.4	2.6	2.9	2.2		
Lbs. milk sold/cow							
Free Stall	12,800	12,900	12,900	13,600	13,600		
Other	12,400	12,400	12,800	13,900	12,500		
Lbs. milk sold/man							
Free stall	293,500	373,700	437,800	481,900	519,100		
Other	291,400	330,200	361,100	409,600	437,900		
Labor cost/cow							
Free stall	\$232	\$201	\$190	\$194	\$209		
Other	\$230	\$205	\$219	\$215	\$193		
Machinery cost/cow							
Free stall	\$233	\$241	\$226	\$224	\$197		
Other	\$221	\$222	\$224	\$222	\$204		
Veterinary cost/cow		•					
Free stall	\$15	\$17	\$19	\$21	\$18		
Other	\$17	\$15	\$17	\$21	\$23		
Feed & crop expense/cow							
Free stall	\$383	\$410	\$433	\$427	\$435		
Other	\$ 39 0	\$385	\$395	\$468	\$402		
Debt/cow	.		• • • • •		. –		
Free stall	\$1,370	\$1,260	\$1,440	\$1,220	\$1,170		
Other	\$1,240	\$1,410	\$1,200	\$1,17 0	\$1,250		
Labor & mgt. income/op.	•• •••	.	• •				
Free stall	\$3,290	\$4,760	\$2,910	\$9,720	\$13,130		
Other	\$1,480	\$2,520	\$1,110	\$6,260	-\$7,050		

Table 39. COMPARISON OF FARMS BY TYPE OF BARN AND HERD SIZE 605 New York Dairy Farms, 1975

A total of 205 of the 605 farms in this study reported having free stall barns. A comparison has been made by size of herd and type of barn for selected business factors.

-37-

Table 40.

SELECTED BUSINESS FACTORS BY MILKING SYSTEMS 605 New York Dairy Farms, 1975

	Bucket	Dumping		Herringbone	Other
Item	and Carry	Station	Pipeline	Parlor	Parlors
Number of farms	27	187	196	164	31
Percent of farms	4%	31%	33%	27%	55
Capital Investm <u>en</u> t					
(end of year)					
Livestock	\$ 20,922	\$ 34,244	\$ 48,684	\$ 76,954	\$ 71,735
Feed & supplies	7,215	11,286	18,095	34,711	26,408
Machinery & equipt.	20,486	30,621	43,423	63,364	54,916
Land & buildings	73,164	93,253	127,291	181,552	175,050
TOTAL INVESTMENT	\$121,787	\$169,404	\$237,493	\$356,581	\$328,109
Financial Summary					
Total Farm Rcts.	\$ 37,230	\$ 57,890	\$ 86,110	\$148,843	\$130,940
Total Farm Exp.	36,097	56,459	82,485	138,960	127,728
Labor & Mgt. Inc.	\$ 1,133	\$ 1,431	\$ 3,625	\$ 9,883	\$ 3,212
No. of operators	(29) 1.1	(215) 1.1	(231) 1.2	(225) 1.4	(34) 1.1
LABOR & MGT. INC./OPR.	\$ 1,055	\$ 1,245	\$ 3,077	\$ 7,209	\$ 2,931
	,	, _ ,	, ,,,,,	÷ ,205	+ _ },51
Size of Business					
Number of cows	33	49	65	109	100
Number of heifers	21	35	48	84	67
Lbs. of milk sold	359,400	586,500	859,000	1,457,100	1,328,200
Man equivalent	1.8	2.0	2.3	3.2	3.0
Crop acres	111	158	190	323	268
Rates of Production					
Milk sold/cow (lbs.)	10,900	12,000	13,280	13,400	13,300
Tons hay crops/acre	1.8	2.1	2.7	3.0	2.7
Tons corn silage/acre	12.9	13.0	14.4	14.3	13.9
Labor Efficiency					
Cows per man	18	25	28	34	33
Lbs. milk sold/man	196,400	293,200	368,700	459,700	442,700
Costs					
Feed purchased/cow	\$282	\$296	\$309	\$315	\$342
% Feed is of milk rcts.	30%	29%	27%	27%	29%
Machinery cost/cow	\$195	\$210	\$22 9	\$218	\$227
Labor cost/cow	\$290	\$225	\$209	\$202	\$192
Capital Efficiency					
Investment/man	\$66,550	\$84,700	\$101,930	\$112,490	\$109,370
Investment/cow	\$3,690	\$3,460	\$3,655	\$3,270	\$3,280
Land & bldgs./cow	\$2,220	\$1,900	\$1,960	\$1,700	\$1,750
Machinery inv./cow	\$620	\$625	\$670	\$580	\$550
Other					
Price/cwt. milk sold	\$8.61	\$8.53	\$8.61	\$8.71	\$8.79

,

.....

			Averag	es for:		
	488 Ind	ividuals		nerships	13 Corporations	
CAPITAL INVESTMENT						
	1/1/75	1/1/76	1/1/75	1/1/76	1/1/75	1/1/76
Livestock	\$ 44,679	\$ 47,229	\$ 63,504	\$ 67,021	\$ 95,480	\$102,847
Feed & supplies	15,912	17,819	25,288	28,059	48,303	57,647
Machinery & equipment	39,135	41,703	47,992		75,314	82,712
Land & buildings	116,629	123,143	142,960	152,230	267,443	279,854
TOTAL INVESTMENT	\$216,355	\$229,894	\$279,744	\$299,790	\$486,540	\$523,060
EXPENSES						
Labor						
Hired		\$ 6,701		\$ 6,486		\$ 18,743
Feed						
Dairy concentrate		20,352		28,990		49,385
Hay and other		1,064		1,037		2,065
Machinery						
Machine hire		624		978		1,005
Machinery repair		3,555		5,636		11,321
Auto expense		312		309		468
Gas and oil		2,425		3,812		5,772
Livestock						
Purchased animals		2,012		2,539		4,051
Breeding fees		878		1,378		2,011
Veterinary, medicine		1,194		1,607		3,065
Milk marketing		1,643		2,299		4,684
Other livestock expense	se	2,447		3,610		5,651
Crops						
Fertilizer and lime		3,954		6,207		16,337
Seeds and plants		1,328		1,923		3,818
Spray and other		1,135		1,669		2,828
<u>Real Estate</u>						
Land, building, fence	repair	1,325		1,794		2,446
Taxes		1,866		2,650		4,170
Insurance		1,240		1,815		3,114
Rent		932		1,711		3,925
Other						
Telephone (farm share))	300		381		719
Electricity (farm shar	ce)	1,254		1,777		2,952
Interest paid		5,978		5,991		15,993
Miscellaneous		965		1,435		2,748
TOTAL CASH EXPENSES		\$63,484		\$ 86,034		\$167,271
Machinery depreciation	1	4,697		6,366		8,535
Building depreciation		2,150		2,705		7,609
Unpaid labor		1,050		700		350
Interest on farm equit	су @ 7%	10,816		15,760		23,984
TOTAL FARM EXPENSES		\$82,197		\$111,565		\$207,749

Table 41. FARM BUSINESS SUMMARIES FOR INDIVIDUALS, PARTNERSHIPS, AND CORPORATIONS605 New York Dairy Farms, 1975

		Averages for:	
	488 Individuals	104 Partnerships	13 Corporations
RECEIPTS			
Milk sales	\$73,479	\$103,959	\$189,253
Crop sales	709	1,400	3,441
Dairy cattle sold	4,208	6,350	11,122
Livestock sales	801	1,624	2,391
Gas tax refund	133	174	165
Government payments	279	291	269
Work off farm	81	61	0
Custom machine work	135	139	232
Miscellaneous	926	1,460	2,144
TOTAL CASH RECEIPTS	\$80,751	\$115,458	\$209,017
Increase in livestock	2,550	3,517	7,367
Increase in feed & supplies	1,907	2,771	9,344
TOTAL FARM RECEIPTS	\$85,208	\$121,746	\$225,728
FINANCIAL SUMMARY			
Total Cash Receipts	\$80,751	\$115,458	\$209,017
Total Cash Expenses	63,484	86,034	167,271
NET FARM CASH FLOW	\$17,267	\$ 29,424	\$ 41,746
lotal Farm Receipts	\$85,208	\$121,746	\$225,728
lotal Farm Expenses	82,197	111,565	207,749
LABOR & MGT. INCOME/FARM	\$ 3,011	\$ 10,181	\$ 17,979
Number of operators	(488) 1.00	(216) 2.08	(29) 2.23
LABOR & MGT. INCOME/OPERATOR	\$ 3,011	\$ 4,904	\$ 8,062
BUSINESS FACTORS			
Man equivalent	2.3	3.1	4.3
Number of cows	66	92	151
Number of heifers	48	72	117
cres of hay crops	113	146	174
cres of corn silage	53	76	138
lotal acres of crops	198	275	440
bs. of milk sold	849,800	1,201,800	2,167,500
bs. of milk sold/cow	12,900	13,100	14,400
Cons hay crops/acre	2.6	2.8	3.3
Cons corn silage/acre	13.9	15.1	13.1
Cows per man	29	30	35
Lbs. of milk sold/man	377,700	390,200	500,600
% Feed is of milk sales	28%	28%	26%
Feed & crop exp./cwt. milk	\$3.15	\$3.23	\$3.34
Fertilizer & lime/crop acre	\$20	\$23	\$37
Machinery cost/cow Av. price/cwt. milk	\$219 \$8.65	\$224	\$216
Av. PLICE/CWE. MILK	\$8.65	\$8.65	\$8.73

Table 41.FARM BUSINESS SUMMARIES FOR INDIVIDUALS, PARTNERSHIPS, AND CORPORATIONS
contd.contd.605 New York Dairy Farms, 1975

-39-

_

.....

	Averages 1974		Averag	es 1975
CAPITAL INVESTMENT				
	1/1/74	1/1/75	1/1/75	1/1/76
Livestock	\$ 52,235	\$ 51,009	\$ 51,246	\$ 53,781
Feed & supplies	14,137	19,587	19,488	21,761
Machinery & equipment	37,558	42,260	42,966	45,817
Land & buildings	115,306	125,716	127,958	134,694
TOTAL INVESTMENT	\$219,236	\$238,572*	\$241,658*	\$256,053
EXPENSES				
Labor				
Hired	\$ 6	,948	Ş 7	,660
Feed				
Dairy concentrate		,816		,432
Hay and other	1	,227	1	,249
Machinery				
Machine hire		704		730
Machinery repair	3	,657	4	,456
Auto expense		286	324	
Gas and oil	2	,501	2	,873
Livestock				
Purchased animals	2	,884	2	,013
Breeding fees	905		1,026	
Veterinary, medicine	1,232		1	,359
Milk marketing	1	1,225		, 990
Other livestock expense	2	,548	2,855	
Crops				
Fertilizer and lime	4	,426	4	,993
Seeds and plants	1	,166	1,548	
Spray and other	1	,207	1	, 356
Real Estate				
Land, building, fence repair	1	,548	1	,517
Taxes	1,882		2,154	
Insurance	1	, 321		,426
Rent	1	,066	1	,244
Other				
Telephone (farm share)		304		332
Electricity (farm share)	1	,187	1	,465
Interest paid	5	, 386		,283
Miscellaneous		832		,142
TOTAL CASH EXPENSES	\$68	,258		,427
Machinery depreciation	5,054		5,194	
Building depreciation		, 599	2	,469
Unpaid labor		,050	1	,050
Interest on farm equity @ 7%	11,442		12	,456
Decrease in livestock	1	,226		
TOTAL FARM EXPENSES	\$89	,629	\$94	,596

Table 42.COMPARISON OF FARM BUSINESS SUMMARIES FOR 1974 AND 1975Same 436 New York Dairy Farms

* Operators often make adjustments in values "between" years.

	Averages 1974	Averages 1975
RECEIPTS		
Milk sales	\$81,241	\$85,943
Crop sales	767	920
Dairy cattle sold	5,683	4,969
Livestock sales	1,281	1,009
Gas tax refund	139	145
Government payments	209	303
Work off farm	61	71
Custom machine work	101	120
Miscellaneous	830	1,072
TOTAL CASH RECEIPTS	\$90,312	\$94,552
Increase in livestock		2,535
Increase in feed & supplies	5,450	2,273
TOTAL FARM RECEIPTS	\$95,762	\$99,360
FINANCIAL SUMMARY		
Total Cash Receipts	\$90,312	\$94,552
Total Cash Expenses	68,258	73,427
-		
NET FARM CASH FLOW	\$22,054	\$21,125
Total Farm Receipts	\$95,762	\$99,360
Total Farm Expenses	89,629	94,596
LABOR & MGT. INCOME/FARM	\$ 6,133	\$ 4,764
Number of operators	(518) 1.19	(532) 1.22
LABOR & MGT. INCOME/OPERATOR	\$ 5,162	\$ 3,905
BUSINESS FACTORS		
Man equivalent	2.5	2.5
Number of cows	74	76
Number of heifers	53	56
Acres of hay crops	118	122
Acres of corn silage	60	61
Total acres of crops	215	225
Lbs. of milk sold	943,100	989,900
Lbs. of milk sold/cow	12,740	13,000
Tons hay crops/acre	2.7	2.7
Tons corn silage/acre	13.7	14.2
Cows per man	30	30
Lbs. of milk sold/man	377,200	396,000
% Feed is of milk sales	29%	27%
Feed & crop exp./cwt. milk	\$3.25	\$3.16
Fertilizer & lime/crop acre	\$21	\$22
Machinery cost/cow	\$203	\$220
Av. price/cwt. milk	\$8.61	\$8.68

Table 42.COMPARISON OF FARM BUSINESS SUMMARIES FOR 1974 AND 1975contd.Same 436 New York Dairy Farms

-41-

Table 43.

SELECTED FARM BUSINESS SUMMARY FACTORS New York Dairy Farms, Selected Years 1965-1975

	Year					
Item	1965	1970	1974	1975		
Number of farms	673	509	628	605		
Financial Summary						
Average capital invested	\$66,908	\$132,545	\$221,974	\$240,633		
Total farm receipts	\$30,488	\$66,467	\$92,108	\$94,508		
Total farm expenses	\$21,995	\$47,795	\$86,315*	\$90,016		
Labor income per operator	\$4,680	\$7,983	\$4,880	\$3,703		
Size of Business						
Number of cows	44	65	72	72		
Pounds of milk sold	523 , 900	822,200	905,800	938,600		
Crop acres	123	168	213	217		
Man equivalent	1.8	2.2	2.4	2.4		
Total work units	568	691	792	803		
Rates of Production						
Milk sold per cow	11,900	12,600	12,580	13,000		
Tons hay crops per acre	2.1	2.7	2.6	2.6		
Tons corn silage per acre	13	15	14	14		
Labor Efficiency						
Cows per man	24	30	30	30		
Pounds milk sold per man	291,100	373,700	374,300	387,900		
Work units per man	316	314	327	332		
Cost Control Factors						
Machinery cost per cow	\$116	\$175	\$201	\$221		
Machinery cost/cwt. milk	\$.97	\$1.38	\$1.60	\$1.69		
Feed bought per cow	\$154	\$192	\$318	\$312		
Feed bought/cwt. milk	\$1.29	\$1.52	\$2.53	\$2.39		
Feed & crop expense/cwt. milk	\$1.60	\$1.91	\$3.26	\$3.18		
% Feed is of milk receipts	29%	25%	30%	28		
Capital Efficiency		•				
Total investment per man	\$38,250	\$62,385	\$95,683	\$102,566		
Total investment per cow	\$1,560	\$2,112	\$3,216	\$3,447		
Machinery investment/cow	\$335	\$447	\$572	\$617		
Total investment/cwt. milk	\$13	\$17	\$26	\$26		
Other	.	.	1	,		
Price per cwt. milk sold	\$4.41	\$6.10	\$8.57	\$8.65		
Acres hay crops	81	119	117	120		
Acres corn silage	20	49	61	59		
Total acres in crops/cow	2.8	2.6	3.0	3.0		
Fertilizer & lime expense/crop acre	e \$9	\$13	\$20	\$21		
Farm income per cow	\$193	\$287	\$291	\$276		
Labor income per cow	\$106	\$145	\$80	\$62		

* Includes interest paid, interest on equity capital, and building depreciation which were not included in total farm expenses prior to 1973. In earlier years, interest was charged on all capital and depreciation was included with inventory changes.

FARM BUSINESS SUMMARY 47 New York Dairy-Cash Crop Farms,* 1975

CAPITAL INVESTMENT	- 1- 1-2	RECEIPTS	
$\frac{1/1/75}{6.51.520}$	$\frac{1/1/76}{2}$	W411	A 00 007
Livestock \$ 51,580	\$ 54,991	Milk sales	\$ 82,287 22,189
Feed & supplies33,712Variation54,220	33,682	Crop sales	
Machinery & equipment 54,379		Dairy cattle sold	4,413
Land & buildings <u>170,514</u>	180,170	Other livestock sales	1,504
TOTAL INVESTMENT \$310,185	\$328,047	Gas tax refund	314
		Government payments	185
EXPENSES		Work off farm	82
		Custom machine work	438
Labor		Miscellaneous	3,116
Hired	\$ 11,117	TOTAL CASH RECEIPTS	\$114,528
Feed		Termana de lássatash	2 / 11
Dairy concentrate	15,105	Increase in livestock	3,411
Hay and other	838		6117 000
Machinery		TOTAL FARM RECEIPTS	\$117,939
Machine hire	1,870	ETMANOTAL CIBOLADY	
Machinery repair	6,602	FINANCIAL SUMMARY	
Auto expense	339	Tabal Cash Decedate	6116 500
Gas and oil	4,683	Total Cash Receipts	\$114,528
Livestock		Total Cash Expenses	85,536
Purchased animals	2,135	NET FARM CASH FLOW	\$ 28,992
Breeding fees	949	Total Farm Passints	\$117,939
Veterinary, medicine	1,580	Total Farm Receipts Total Farm Expenses	-
Milk marketing	2,153	iotai raim Expenses	113,250
Other livestock expense	2,716	LABOR & MGT. INCOME/FARM	\$ 4,689
Crops		Number of operators (61)	1.3
Fertilizer and lime	9,531	LABOR & MGT. INCOME/OPERATOR	\$ 3,615
Seeds and plants	2,839		
Spray and other	3,026	BUSINESS FACTORS	
<u>Real Estate</u>			
Land, building, fence repair	1,930	Man equivalent	2.9
Taxes	3,004	Number of cows	73
Insurance	1,576	Number of heifers	53
Rent	2,574	Acres of hay crops	119
Other Cash Expense		Acres of corn silage	51
Telephone (farm share)	363	Total acres of crops	355
Electricity (farm share)	1,634	Lbs. of milk sold	953,700
Interest paid	7,077	Lbs. milk sold/cow	13,100
Miscellaneous	1,895	Tons hay crops/acre	3.1
TOTAL CASH EXPENSES	\$ 85,536	Tons corn silage/acre	15.7
Machinery depreciation	6,434	Cows per man	25
Building depreciation	3,693	Lbs. of milk sold/man	326,600
Unpaid labor	700	% Feed is of milk receipts	18%
Interest on farm equity @ 7%	16,857	Feed & crop exp./cwt. milk	\$320
Decrease in feed & supplies	30	Fertilizer & lime/crop acre	\$27
		Machinery cost/cow	\$327
TOTAL FARM EXPENSES	\$113,250	Av. price/cwt. milk	\$8.63

* Farms where crop sales amounted to 10 percent or more of milk sales.

FARM BUSINESS SUMMARY 55 New York Dairy-Renter Farms,* 1975

CAPITAL INVESTMENT		RECEIPTS	
$\frac{1/1/75}{220,072}$	$\frac{1/1/76}{2}$	W112	\$66,404
Livestock \$39,872	\$42,939	Milk sales	516
Feed & supplies 14,207	15,564	Crop sales	4,198
Machinery & equipment 30,057	35,192 2,595	Dairy cattle sold Other livestock sales	905
Land & buildings 2,287		Gas tax refund	79
TOTAL INVESTMENT \$86,423	\$96,290	Government payments	135
		Work off farm	31
EXPENSES		Custom machine work	45
		Miscellaneous	983
Labor			
Hired	\$ 4,668	TOTAL CASH RECEIPTS	\$73,296
Feed		Increase in livestock	3,067
Dairy concentrate	19,166	Increase in feed & supplies	1,357
Hay and other	1,920	TOTAL FARM RECEIPTS	\$77,720
Machinery			
Machine hire	580	FINANCIAL SUMMARY	
Machinery repair	2,541		
Auto expense	252	Total Cash Receipts	\$73,296
Gas and oil	1,918	Total Cash Expenses	59,382
Livestock		-	
Purchased animals	4,279	NET FARM CASH FLOW	\$13,914
Breeding fees	864	Total Farm Receipts	\$77,720
Veterinary, medicine	1,033	Total Farm Expenses	68,258
Milk marketing	1,268		
Other livestock expense	2,566	LABOR & MGT. INCOME/FARM	\$ 9,462
Crops	0.010	Number of operators (65)	1.18
Fertilizer and lime	2,918	LABOR & MGT. INCOME/OPERATOR	\$ 8,012
Seeds and plants	976	DUCTNECC FACEODC	
Spray and other	832	BUSINESS FACTORS	
Real Estate	660	Man equivalent	2.1
Land, building, fence repair	668 276	Number of cows	59
Taxes Insurance	669	Number of heifers	43
Rent	6,395	Acres of hay crops	108
Other Cash Expense	0,000	Acres of corn silage	51
Telephone (farm share)	270	Total acres of crops	185
Electricity (farm share)	1,234	Lbs. of milk sold	764,600
Interest paid	3,171	Lbs. milk sold/cow	13,000
Miscellaneous	918	Tons hay crops/acre	2.3
miscertaneous		Tons corn silage/acre	12.4
TOTAL CASH EXPENSES	\$59,382	Cows per man	28
Machinery depreciation	3,570	Lbs. of milk sold/man	367,600
Building depreciation	69	% Feed is of milk sales	29%
Unpaid labor	1,050	Feed & crop exp./cwt. milk	\$3.12
Interest on farm equity @ 7%	4,187	Fertilizer & lime/crop acre	\$16
TOTAL FARM EXPENSES	\$68,258	Machinery cost/cow	\$189
	• • • • • • •	Av. price/cwt. milk	\$8.68
		• · · ·	

* A farm was classified as renter if no real estate was owned or if all cropland was rented.

FARM BUSINESS SUMMARY Top 10 Percent of the Farms by Labor & Management Income 61 New York Dairy Farms, 1975

CAPITAL INVESTMENT		RECEIPTS	
1/1/75	1/1/76		
Livestock \$ 73,640	\$ 81,924	Milk sales	\$137,679
• -	41,148	Crop sales	1,502
· ·	66,218	Dairy cattle sold	8,016
Land & buildings 159,624	173,227	Other livestock sales	1,462
TOTAL INVESTMENT \$324,135	\$362,517	Gas tax refund	227
	,,	Government payments	365
		Work off farm	66
EXPENSES		Custom machine work	92
		Miscellaneous	2,005
Labor	A 10 000	TOTAL CASH RECEIPTS	\$151,414
Hired	\$ 13,903	Increase in livestock	8,284
Feed	00 0/0	Increase in feed & supplies	8,259
Dairy concentrate	33,342		
Hay and other	922	TOTAL FARM RECEIPTS	\$167,957
Machinery Machine hire	973	ETMANOTAL CIRCARY	
	973 6,634	FINANCIAL SUMMARY	
Machinery repair Auto expense	343	Total Cash Receipts	\$151,414
Gas and oil	3,966	Total Cash Expenses	•
Livestock	3,700	iotat cash expenses	105,655
Purchased animals	2,348	NET FARM CASH FLOW	\$45,759
Breeding fees	1,534	Total Farm Receipts	\$167,957
Veterinary, medicine	2,217	Total Farm Expenses	135,678
Milk marketing	3,051	-	
Other livestock expense	3,778	LABOR & MGT. INCOME/FARM	\$ 32,279
Crops	-,	Number of operators (78)	1.3
Fertilizer and lime	8,755	LABOR & MGT. INCOME/OPERATOR	K Ş 25,257
Seeds and plants	2,522	BUGINEGO EL CONTO	
Spray and other	2,214	BUSINESS FACTORS	
Real Estate		Man aquitralant	2 1
Land, building, fence repair	2,310	Man equivalent Number of cows	3.2
Taxes	2,744	Number of cows Number of heifers	112
Insurance	1,798		88
Rent	1,768	Acres of hay crops Acres of corn silage	162
Other Cash Expense		Total acres of crops	97 331
Telephone (farm share)	377	Lbs. of milk sold	1,589,000
Electricity (farm share)	1,979	Lbs. of milk sold/cow	14,200
Interest paid	6,877	Tons hay crops/acre	3.1
Miscellaneous	1,300	Tons corn silage/acre	15.9
TOTAL CASH EXPENSES	\$105,655	Cows per man	35
Machinery depreciation	6,104	Lbs. of milk sold/man	501,300
Building depreciation	3,777	% Feed is of milk receipts	24%
Unpaid labor	700	Feed & crop exp./cwt. milk	\$2.95
Interest on farm equity @ 7%	19,442	Fertilizer & lime/crop acre	\$26
		Machinery cost/cow	\$200
TOTAL FARM EXPENSES	\$135,678	Av. price/cwt. milk	\$8.66

-45-

-

FARM BUSINESS SUMMARY Average of 605 New York Dairy Farms, 1975

CAPITAL INVESTMENT		RECEIPTS	
$\frac{1/1/75}{2}$	$\frac{1/1/76}{$51,826}$		\$81,206
Livestock \$ 49,006 Feed & supplies 18,220	\$ 51,828 20,435	Milk sales Crop sales	381,200 886
Feed & supplies18,220Machinery & equipment41,435	-	Dairy cattle sold	4,725
	131,511	Livestock sales	976
Land & Dulluings		Gas tax refund	141
TOTAL INVESTMENT \$233,057	\$248,209	Government payments	281
		Work off farm	76
		Custom machine work	138
EXPENSES		Miscellaneous	1,044
Labor	.	TOTAL CASH RECEIPTS	\$89,473
Hired	\$ 6,923	Increase in livestock	2,820
Feed	00.440	Increase in feed & supplies	2,215
Dairy concentrate	22,460	TOTAL FARM RECEIPTS	\$94,508
Hay and other	1,081		
<u>Machinery</u>	60.2		
Machine hire	693 4,079	FINANCIAL SUMMARY	
Machinery repair Auto expense	4,079		
Gas and oil	2,735	Total Cash Receipts	\$89,473
Livestock	2,755	Total Cash Expenses	69,588
Purchased animals	2,146	NET FARM CASH FLOW	\$19,885
Breeding fees	988		
Veterinary medicine	1,305	Total Farm Receipts	\$94,508
Milk marketing	1,821	Total Farm Expenses	90,016
Other livestock expense	2,716	LABOR & MGT. INCOME/FARM	\$ 4,492
Crops		Number of experience $(72/)$	1.2
Lime and fertilizer	4,607	Number of operators (734)	1.2
Seeds and plants	1,483	LABOR & MGT. INCOME/OPERATOR	\$ 3,703
Spray and other	1,263		
<u>Real Estate</u>		BUSINESS FACTORS	
Land, building, fence repair	1,430		
Taxes	2,050	Man equivalent	2.4
Insurance	1,379	Number of cows	72
Rent	1,130	Number of heifers	54
Other		Acres of hay crops	120
Telephone (farm share)	323	Acres of corn silage	63
Electricity (farm share)	1,381	Total acres of crops	217
Interest paid	6,196	Lbs. of milk sold	938,600
Miscellaneous	1,084	Lbs. of milk sold/cow	13,036
TOTAL CASH EXPENSES	\$69,588	Tons hay crops/acre Tons corn silage/acre	2.6 14.0
IUTAL CASH EXPENSES	202,200	-	
Machinery depreciation	5,066	Lbs. of milk sold/man Cows per man	387,850 30
Building depreciation	2,363	% Feed is of milk sales	28%
Unpaid labor	1,050	Feed & crop exp./cwt. milk	\$3.18
Interest on farm equity @ 7%	11,949	Lime & fertilizer/crop acre	\$21
		Machinery cost/cow	\$221
TOTAL FARM EXPENSES	\$90,016	Av. price/cwt. milk	\$8.65
	,		,

_