1975 FARM BUSINESS SUMMARY

WESTERN
PLAINS
REGION

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Eddy L. LaDue

Department of Agricultural Economics

New York State College of Agriculture and Life Sciences

A Statutory College of the State University

Cornell University, Ithaca, New York 14853

WESTERN PLAINS REGION DAIRY FARM BUSINESS SUMMARY 1975

This publication presents a summary of the 1975 farm business records of 40 Livingston, Wyoming, Niagara, Genesee, Monroe, and Orleans County dairy farms. These records were submitted by dairymen participating in Cooperative Extension's Farm Business Management Program. There are approximately 40 counties in New York State in which such projects are conducted in cooperation with the College of Agriculture and Life Sciences at Cornell.

The primary objectives of the business management program are to (1) assist farmers in developing and maintaining more complete farm business data for use in management decisions and (2) to help farmers improve their management skills through appropriate use of farm record data and application of modern decision making techniques. The rapidly increasing size of New York dairy farms and the dynamic nature of the environment within which they operate make farm incomes increasingly dependent upon the accuracy of management decisions. An indication of the type and magnitude of changes taking place in the Western Plains region are shown below.

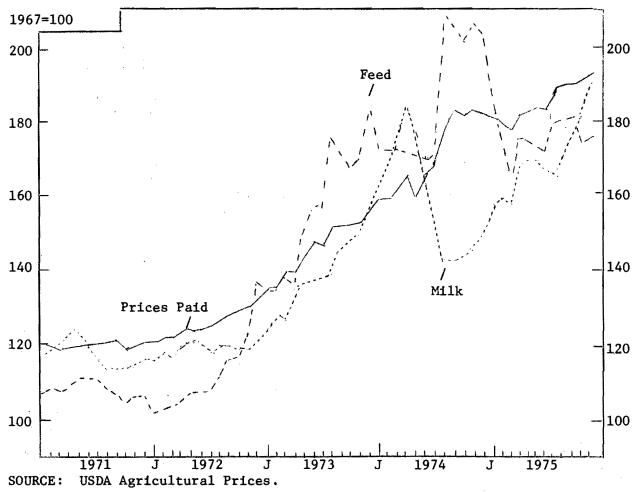
	<u> 1968</u>	<u> 1971</u>	1974	1975
Number of farms	70	30	32	40
Cows per farm	67	85	109	106
Machinery per farm Investment per man Investment per cow	\$29,854 \$56,716 \$ 2,116	\$40,046 \$80,023 \$ 2,448	\$ 59,547 \$104,675 \$ 3,044	\$ 70,067 \$103,181 \$ 3,329
Milk sold per cow (lbs.) Milk sold per man (lbs.) Milk price per cwt.	12,300 328,600 \$ 5.43	12,900 421,300 \$ 6.13	13,500 465,300 \$ 8.56	13,659 423,363 \$ 8.62
Feed bought per cow Crop expense per cow Gas and oil per cow	117 53 26	157 76 26	299 115 41	236 138 45
Fertilizer expense per acre	12	14	21	23

The economic climate for dairymen improved somewhat during 1975. Most of the improvement resulted from higher milk prices in the fall months. Hopefully, these improved price relationships will continue well into 1976.

The rapid changes in economic conditions under which dairy farmers have operated during the past few years are likely to continue, making the business of producing milk even more risky than it was in the 60's and early 70's. With both short and long run prices of milk, feed, etc. even less predictable than in the past, it becomes increasingly important for every dairyman to have available and use the kind of information presented in this summary.

This summary was prepared by Eddy L. LaDue, Department of Agricultural Economics, New York State College of Agriculture and Life Sciences, in cooperation with David L. Thorp, Livingston County Cooperative Extension, William D. Goewey, Wyoming County Cooperative Extension, and George Allhusen, Western Plains Region Cooperative Extension Dairy and Field Crops Team.

(Seasonally Adjusted to Show Trends)



The relative changes in prices received and paid have an important effect on dairy farm incomes. Dairy ration in 1975 averaged \$6 per ton less than in 1974, but \$16 higher than in 1973. The 1975 index of prices paid was 8 percent higher than 1974. The blend price received for 3.5 percent milk averaged \$8.64 per cwt. in 1975, up 40 cents from 1974. Milk prices improved markedly the last half of 1975.

AVERAGE YEARLY PRICES RECEIVED AND PAID BY N.Y. FARMERS, 1965 to 1975

Year	Milk (cwt.)	Slaughter Cows (cwt.)	Dairy Cows (head)	Dairy Ration (ton)	Wages per Month With House	Prices Paid by New York Dairymen
						1967=100
1965	\$4.27	\$13.90	\$238	\$73	\$236	93
1970	5.89	20.70	353	78	356	113
1971	6.02	21.20	372	83	375	120
1972	6.25	24.50	410	85	393	126
1973	7.30	32.80	494	119	418	146
1974	8.24	28.02	509	141	435	172
1975*	8.64	20.62	419	135	NA	186
1976	Wather water	,		***************************************	naminganasione	

^{*} Preliminary.

SUMMARY OF THE FARM BUSINESS

Information on the availability of farm resources and their characteristics is fundamental to judging management performance. The combination of resources and the management techniques used to put the resources to work is an important function called farm organization. The tables on this page show some important farm business characteristics, the number of farms reporting these characteristics, and the average use of farm resources.

FARM ORGANIZATION
40 Western Plains Dairy Farms, 1975

Type of Business Individual Partnership	Number 26 11	Business Recordance Record Record Book	rds Number 9 12	Dairy Records D.H.I.C. Owner Sampler	Number 18 11
Corporation	3		8	Other	6
_		Agrifax	3		
Other	0	Farm Bureau		None	2
		Agway	3		
		Other	· 7		
Barn Type Number		Milking System	m Number _		Number
Stanchion 11		Bucket & carr	y 1	Herringbone	21
Freestall 28		Dumping static	·	Other parlor	5
Other 1		Pipeline	9		•
Labor Force	My Far	m Average	Land Used	My Farm	Average
Operator		16 mo.	Total acres own	ned	287
Family paid			Total acres ren		219
Family unpaid			Total crop acre	***************************************	369
Hired			Crop acres rent	***************************************	181
Total		41 mo.	orop acres rene		101
			Number of Corre	Mrs. En mm	A 250 700 00
Age of operator(s)	***************************************		Number of Cows	My Farm	Average
77 - 4 1			Beginning of ye	ear	103
Estimated value op	's		End of year		111
labor & management		_ \$12,406	Average for yea	ır	106

There were 12 businesses with 2 operators making a total of 52 operators on the 40 farms or 1.3 operators per farm. Three of the 40 farms rented all their cropland. Thirty-nine farms rented some cropland.

Total farm inventory increased \$30,156 or 9.3 percent during 1975. The end of year farm inventory values are used in determining farm assets in this report.

CAPITAL INVESTMENT - FARM INVENTORY VALUES
40 Western Plains Dairy Farms, 1975

	My 1	My Farm		O Farms
Item	1/1/75	1/1/76	1/1/75	1/1/76
Livestock Feed & supplies Machinery & equipment Land & buildings	\$	\$	\$ 72,140 36,952 61,584 152,047	\$ 78,431 38,861 70,067 165,520
TOTAL	\$	\$	\$322,723	\$352,879

Machinery and Real Estate Inventory Calculations

Capital outlays for machinery and buildings usually occur in large uneven amounts, but assets depreciate gradually over a period of time. Machinery depreciation has been calculated below and is included as a farm expense.

MACHINERY & EQUIPMENT DEPRECIATION 40 Western Plains Dairy Farms, 1975

Item	My Farm	Average 40 Farms
Beginning Inventory	\$	\$61,584
Machinery Purchases		15,724
Total (1)	\$	\$77,308
End of Year Inventory	\$	\$70,067
Machinery Sold		468
Total (2)	\$	\$70,535
DEPRECIATION (1 minus 2)	\$	\$ 6,773
Percent Depreciation	**************************************	9%

REAL ESTATE INVENTORY CALCULATIONS 40 Western Plains Dairy Farms, 1975

Item	My Farm		Average 40 Farms	
Beginning Market Value	1,	\$		\$152,047
Cost of New Real Estate	. \$		\$10,133	
Less Lost Capital	-		<u>- 913</u>	
Value of New Added		+\$		+ 9,220
Less Building Depreciation		****		- 4,343
Less Real Estate Sold		-		0
Total Without Appreciation		\$		\$156,924
Appreciation of Beginning Real Estate	•	+		+ 8,596
End of Year Market Value	•	\$		\$165,520

Lost Capital is the difference between the cost of new buildings and the amount these improvements added to the value of the farm. It is not included in farm expenses, since building depreciation is based on the full cost of new buildings and will account for lost capital over the life of the building. Building depreciation was taken from the farm depreciation schedule and is included as a farm expense. Real Estate Appreciation was estimated by each farm operator. It is the increase in value of real estate caused by demand and inflation. Appreciation averaged six percent on these farms in 1975.

Receipts

Receipts from the 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.

FARM RECEIPTS
40 Western Plains Dairy Farms, 1975

		_ Average 40 Farms		
Item	My Farm	Amount	Percent	
Milk sales	\$	\$124,742	86	
Crop sales	Marie de la Company de la Comp	6,143	4	
Dairy cattle sold		6,625	5	
Calves & other livestock sales		2,113	2	
Gas tax refunds		281		
Government payments	-	797 }	1	
Work off farm		382 (
Custom machine work	-	397)	
Other	***	2,816	2	
Total cash receipts	\$	\$144,296	100	
Increase in livestock		6,291		
Increase in feed & supplies		1,909		
TOTAL FARM RECEIPTS	\$	\$152,496	a	

In a normal year most going farm businesses are expanding and therefore have an increase in inventory due to more <u>livestock</u> and <u>crops</u> raised. These increases are included in the farm receipts since the costs of producing or acquiring these assets are in the expenses.

Cow numbers increased by eight head and dairy cattle values recovered enough to cause an average increase in livestock of \$6,291. The 1975 crop season was good and although feed prices were down by the end of the year there was an average increase in feed and supply inventories of \$1,909.

INCOME ANALYSIS

•		Western Plains Average		
Item	My Farm	40 Farms, 1975	32 Farms, 1974	
Average price/cwt. milk sold	\$	\$ 8.62	\$ 8.56	
Milk sales per cow		\$ 1,177	\$ 1,158	
Total cash receipts/man		\$42,192	\$46,434	

Expenses

There are many opportunities for dollar leaks when cash farm expenses average \$299 per day. Classifying expenses into the categories on this page will help you identify those that need tighter control.

FARM EXPENSES
40 Western Plains Dairy Farms, 1975

		Average 4	Average 40 Farms		
Item	My Farm	Amount	Percent		
Hired Labor	\$	\$ 15,415	14		
Feed					
Dairy Concentrate		25,015	23		
Other Feed	***************************************	637	ı		
Machinery					
Machine Hire		1,026	1		
Machinery Repairs		7,053	6		
Auto Expense (farm share)		309			
Gas & Oil		4,809	4		
<u>Livestock</u>					
Purchased Livestock		4,217	4		
Breeding Fees		1,383	1		
Veterinary & Medicine		2,434	2 4		
Milk Marketing		4,495	4		
Other Livestock Expense		3,514	3		
Crops			_		
Fertilizer & Lime		8,664	8		
Seeds & Plants		3,144	. 3		
Spray, Other Crop Expense	*	2,810	3		
Real Estate		0	_		
Land, Building, Fence Repair		2,158	2		
Taxes		3,124	3		
Insurance		1,724	2		
Rent		3,263	3		
Other		202			
Telephone (farm share)		321			
Electricity (farm share)	*****	1,960	2		
Interest Paid		9,764	9		
Miscellaneous		2,023	_2		
Total Cash Expenses	\$	\$109,262	100		
Non-Cash Items					
Machinery Depreciation		\$ 6,773			
Building Depreciation		4,343	•		
Unpaid Family Labor		1,050			
Interest on Equity Capital @ 7%		1 7, 382			
			*		
Decrease in Livestock and Feed		<u> </u>			
TOTAL FARM EXPENSES	\$	\$138,810			

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. Four common measures are reported on the next two pages.

NET CASH FARM INCOME
Western Plains Dairy Farms, 1975 & 1974

Item	My Ferm	Average 40 Farms, 1975	Average 32 Farms, 1974
Cash Farm Receipts	\$	\$144,296	\$147,196
Cash Farm Expenses		109,262	113,834
NET CASH FARM INCOME	\$	\$ 35,034	\$ 33,362

Net cash farm income 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 not a good measure of farm business profits but it is useful when planning debt repayment programs.

LABOR AND MANAGEMENT INCOME
Western Plains Dairy Farms, 1975 & 1974

<u>I</u> tem	My Farm	Average 40 Farms, 1975	Average 32 Farms, 1974
Total Farm Receipts	\$	\$152,496	\$161,384
Total Farm Expenses		138,810	140,627
LABOR & MANAGEMENT INCOME	\$	\$ 13,686	\$ 20,757
Number of Operators		1.3	1.5
LABOR & MGT. INCOME/OPERATOR	·\$	\$ 10,528	\$ 14,132

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 from this capital had it been invested elsewhere, such as in bank certificates. Labor and management income is the measure used most commonly when comparing farm businesses.

The average 1975 labor and management income per operator for the farm businesses included in the summary was somewhat lower than that experienced by a similar group of farms for 1974. The major factor causing this decline was a much lower increase in feed and supplies inventory. In 1974 feed and supplies inventory increased by \$9,783. In 1975 this increase was only \$1,909.

Labor, management, and ownership income per operator reflects the combined return to the farmer for his triple role of worker-manager, financier, and owner. The return here provides for the operator's living and his gain in business net worth.

LABOR MANAGEMENT AND OWNERSHIP INCOME Western Plains Dairy Farms, 1975 & 1974

Item	My Farm	Average 40 Farms, 1975	Average 32 Farms, 1974
Labor & management income	\$	\$13,686	\$20,757
Real estate appreciation		8,596	7,031
Interest on equity capital		17,382	16,182
Total per farm	\$	\$39,664	\$43,970
Number of operators		1.3	1.5
LABOR, MANAGEMENT AND OWNERSHIP INCOME/OPERATOR	\$	\$30,511	\$29,937

Return on equity capital is a common measure for nonfarm businesses. It can be computed with or without real estate appreciation. Both measures are shown below.

RETURN ON EQUITY CAPITAL
Western Plains Dairy Farms, 1975 & 1974

Item	My Farm	Average 40 Farms 1975	Average 32 Farms 1974
	Including	Real Estate	Appreciation
Labor, Mgt. & Ownership Income/Farm	\$	\$39,664	\$43,970
Less: Value of Operator's Labor & Mgt.*	-	16,128	15,942
Return on Equity Capital	\$	\$23,536	\$28,028
Rate of Return on Equity Capital	<u></u>	9.5%	12.1%
	Excluding	Real Estate	Appreciation
Return on Equity Capital (from above)	\$	\$27,258	\$28,028
Less: Real Estate Appreciation		8,596	7,031
Return on Equity Capital	\$	\$14,940	\$20,997
Rate of Return on Equity Capital	<u></u>	6.0%	9.1%

^{*}Value of operator's labor and management estimated by operators, page 3, multiplied by number of operators per farm.

Farm Family Financial Situation

The financial situation is an important part of the farm business summary. It has a direct affect on current cash outflow and future capital investment decisions. A farmer with a good labor income may find his management flexibility restricted by an excessively high debt repayment schedule.

FARM FAMILY FINANCIAL SITUATION 40 Western Plains Dairy Farms, January 1, 1976

Item	My Farm	Average 40 Farms
Assets	· .	-
Livestock Feed and supplies Machinery and equipment Land and buildings Co-op investment Accounts receivable Cash and checking accounts	\$	\$ 78,432 38,862 70,067 165,521 11,511 12,028 3,193
Total Farm Assets	\$	\$379,614
Savings accounts Cash value life insurance Stocks and bonds Non-farm real estate Auto (personal share) All other		2,471 3,758 942 1,525 872 2,477
Total Non-farm Assets	\$	\$ 12,045
TOTAL ASSETS	\$	\$391,659
Liabilities		
Real estate mortgage Liens on cattle & equipment Installment contracts Notes and other farm debt	\$	\$ 49,277 59,078 493 22,451
Total Farm Liabilities	\$	\$131,299
Non-farm Liabilities	***************************************	9
TOTAL LIABILITIES	\$	\$131,308
Farm Net Worth (equity capital)	\$	\$248,315
Family Net Worth	\$	\$260,351

Farm Net Worth is Total Farm Assets less Total Farm Liabilities. Family Net Worth is Total Assets less all Liabilities reported.

Payment Ability is the most important consideration in determining if and how proposed investments should be financed. The farm business must produce enough cash income to meet operating expenses, to cover family or personal living expenses and to make debt payments. Cash purchases of capital items that normally take place during the year must also be included.

Payment ability is calculated in the following table. Interest paid is added to net cash farm income because planned or budgeted debt payments will include interest as well as principal. Estimate family living expenses for your farm to calculate cash available for debt payment and capital purchases made in cash.

Debt payments planned for 1976 are the scheduled debt payments as of January 1976. Some farms in the group had scheduled debt payments exceeding 35 percent of the milk receipts. Committing this much cash inflow to debt payments put a "big squeeze" on cash available for operating the business and family living.

FINANCIAL MEASURES & DEBT COMMITMENT 40 Western Plains Dairy Farms, January 1, 1976

Item	My Farm	Average of 40 Farms
Payment Ability	- K	
Net cash farm income	\$	\$35,034
Add: Interest paid		9,764
CASH AVAILABLE FOR DEBT SERVICE & LIVING	\$	\$44,798
Less: Family living expenses	·	13,000*
CASH AVAIL. FOR DEBT PYMT. & CAP. PURCH.	\$	\$31,798
Scheduled Annual Debt Payments		
Real estate mortgage	\$	\$ 6,329
Cattle and equipment liens		14,864
Installment contracts		288
Notes and other		<u>5,856</u>
TOTAL PAYMENTS PLANNED 1975	\$	\$27,337
Measure of Debt Commitment & Equity Position		•
Scheduled debt payments per cow	\$	\$ 25 8
Scheduled debt payments as % of milk sales	<u></u>	22%
Farm debt per cow	\$	\$ 1,239
Percent equity (total)		66%

^{*}Estimated at \$10,000 per family and one family per operator.

ANALYSIS OF THE FARM BUSINESS

Research and experience has shown that certain factors controlled by management affect farm incomes. In analyzing a farm business, we examine it in terms of these basic factors. This will be done on the pages that follow.

Size of Business

Studies have shown that, in general, larger farms pay better. 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 of production (milk) on which to make a profit. However, if a large farm is poorly operated, the losses also will be larger.

MEASURES OF SIZE OF BUSINESS
Western Plains Dairy Farms, 1975 & 1974

		A l.o	A 20
Measure	My Farm	Average 40 Farms 1975	Average 32 Farms 1974
Number of cows	·	106	109
Number of heifers		. 79	81
Pounds milk sold		1,447,900	1,474,900
Man equivalent		3.4	3.2
Total work units		1,211	1,252
Total acres of crops		369	355

Volume of output is one measure of size. In the table below, the 628 New York farms summarized for 1974 are sorted by number of cows and the labor income is shown for each size group. In general, the large farms paid better.

COWS PER FARM AND LABOR AND MANAGEMENT INCOME 628 New York Dairy Farms, 1974

Number of Cows	Number of Farms	Percent of Farms	Labor & Management Income Per Operator
Under 40	87	14%	\$ 259
40 - 54	173	27	2,176
55 - 69	135	21	2,580
70 - 84	76	12	3,642
85 - 99	42	7	8,866
100 - 114	36	6	6,118
115 - 129	25	14	7,822
130 - 149	17	3	10,783
150 & over	37	6	19,679

Rates of Production

Crop yields and rates of animal production are factors that affect farm incomes. In the table below, we examine the crops grown and yields along with the pounds of milk sold per cow.

CROP YIELDS & MILK SOLD PER COW 40 Western Plains Dairy Farms, 1975

	My F	arm	Average of Fa	rms Report	ing
Crop	Acres	Yield	Farms Reporting	Acres	Yield
Dry hay			40	68	(combined
Hay crop silage			34	112	below)
Other hay crops	*		5	12	
Corn silage	<u> </u>	424 700	39	91	14.2 tn.
Grain corn			33	99	81.0 bu.
Oats		***************************************	22	28	77.1 bu.
Wheat			25	36	41.1 bu.
Hay equivalent:	•				
All hay crops			40	154	3.5 tn.
All hay & silage			40	243	3.9 tn.
Milk sold per cow		•		13,6	59 lbs.

Tons of hay equivalent of all hay and silage is a measure of the overall rate of roughage production for all the acres used for roughage crops. One ton of hay equivalent is equal to one ton of dry hay containing 88 to 90 percent dry matter.

The hay crop yields reported by this group of farms were about the same as those reported in 1974. Corn grain and silage yields were up slightly. Milk sold in 1974 averaged 13,531 pounds per cow.

The importance of high milk output per cow is shown in the table below.

MILK SOLD PER COW & LABOR INCOME 628 New York Dairy Farms, 1974

Pounds of Milk Sold Per Cow	Number of Farms	Number of Cows	Feed Bought Per Cow	Labor Income Per Operator
Under 10,000	83	57	\$229	\$ 3,581
10,000 - 10,999	77	62	271	572
11,000 - 11,999	97	66	307	687
12,000 - 12,999	120	76	325	5,227
13,000 - 13,999	125	78	330	8,374
14,000 - 14,999	82	80	360	9,649
15,000 - 15,999	33	90	373	15,707
16,000 & over	11	74	477	11,045

Labor Efficiency

The labor input is an important factor in farm production. Several measures of accomplishment per man or labor efficiency are shown below.

MEASURES OF LABOR EFFICIENCY
Western Plains Dairy Farms, 1975 & 1974

Item	My Farm	Average 40 Farms 1975	Average 32 Farms 1974
Man Equivalent		3.4	3.2
Cows Per Man		31	34
Lbs. Milk Sold Per Man		423,363	465,268
Work Units Per Man	****	354	395

Number of cows per man is calculated by dividing the average number of cows by the man equivalent which includes the total farm labor force. There was a decrease of three cows per man when the average for 1975 is compared with the average of the 1974 farms.

<u>Pounds of milk sold per man</u> is the best measure of labor efficiency on the dairy farm. It measures the ability of the labor force to handle a large number of cows without sacrificing milk output per cow. The farms included in the 1975 summary were not as efficient as those in the 1974 study. Milk sold per man was nearly 42,000 lbs. below the 1974 average.

It is important to look at other measures of labor efficiency, such as work units per man because all dairy farms do not have the same relationship between cows, heifers, and crops grown.

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

MILK SOLD PER MAN AND LABOR AND MANAGEMENT INCOME 628 New York Dairy Farms, 1974

Pounds of Milk Sold Per Man	Number of Farms	Number of Cows	Lbs. Milk Per Cow	Labor & Management Income Per Operator
Under 250,000	92	43	10,300	-\$ 2,882
250,000 - 299,999	86	56	11,700	1,172
300,000 - 349,999	109	64	11,900	3,055
350,000 - 399,999	104	70	12,600	3,530
400,000 - 449,999	93	70	11,300	5,675
450,000 - 499,999	60	98	13,300	13,062
500,000 - 599,000	66	109	13,700	11,328
600,000 and over	18	135	13,700	19,553

Capital Efficiency

Capital is a key resource and it is important to analyze its use in the business. The measures of capital efficiency shown in the following table include owned as well as borrowed capital. The management of borrowed capital has been analyzed on page 10. It is possible for the business to be under capitalized. However, investing too much capital per productive unit is a more common problem. The only way a farmer can get a good return on capital invested in his business is to "put it to work".

MEASURES OF CAPITAL EFFICIENCY
Western Plains Dairy Farms, 1975 & 1974

Item	My Farm	Average 40 Farms 1975	Average 32 Farms 1974
Farm Capital Per Man	\$	\$103,181	\$104,675
Farm Capital Per Cow	\$	3,329	3,044
Land & Buildings Per Cow	\$	1,562	1,413
Land & Buildings/Crop Acre Owned	\$	880	794
Machinery Investment Per Cow	\$	661	546
Capital Turnover	yrs.	2.3 yrs.	2.1 yrs.

Land and building investment per crop acre owned shows the relationship between investments in land and buildings. The farmer who owns little cropland but builds lots of farm buildings will have a relatively large land and building investment per crop acre owned. This could be an indication that his use of capital is "out of balance".

Capital turnover is calculated by dividing the total farm capital (total year end farm inventory) by the total farm receipts for the year. The factor is called capital turnover because it measures the number of years of receipts needed to equal or "turnover" farm capital. A fast rate of turnover is more desirable than a slow rate because it means capital purchases can be paid off at a faster rate.

SIZE OF HERD AND CAPITAL EFFICIENCY 628 New York Dairy Farms, 1974

Number	Number	r Capital Investment Per Cow		
of Cows	of Farms	Total	Real Estate	Machinery
Under 40	87	\$3,688	\$2,160	\$628
40 - 54	173	3,310	1,763	658
55 - 69	135	3,454	1,870	633
70 - 84	76	3,209	1,696	582
85 - 99	42	3,149	1,669	533
100 - 114	36	3,293	1,644	590
115 - 129	25	3,123	1,583	535
130 - 149	17	2,957	1,461	509
150 & over	37	2,898	1,468	444

Cost Control

The control of costs is a big factor in the success of modern commercial dairy operations. Feed, machinery, and labor costs are major items and are examined in detail. However, it is important to check all cost items both large and small.

Feed Costs

Feed is the largest single expense item on dairy farms. For the 40 Western Plains farms, purchased feed accounted for 23 percent of the cash expenses. Crop expenses accounted for another 13 percent.

The crop program has an important influence on purchased feed costs. Increasing the amount of roughage and/or grain grown on the farm will reduce the quantity of feed to be purchased. However, this will reduce the total cost of feeding the animals only if the cost of growing feed on the farm is less than the cost of purchased feed. Also, the number of heifers being raised on the farm will affect the total feed cost per cow or hundredweight of milk sold. The overall feed situation must be examined and evaluated as a "system".

FEED COSTS AND RELATED MEASURES Western Plains Farms, 1975 & 1974

Item	My Farm	Average 40 Farms 1975	Average 32 Farms 1974
Feed purchased per cow	\$	\$ 236	\$ 299
Crop expense per cow	\$	\$ 138	\$ 115
Feed bought per cwt. milk	\$	\$1.73	\$2.21
Feed & crop expense per cwt. milk	\$	\$2.74	\$3.06
Percent feed is of milk receipts	%	20%	26%
Hay equivalent per cow (tons)	Manager of the Control of the Contro	9.0	8.5
Crop acres per cow		3.5	3.3
Lime and fertilizer per crop acre	\$	\$ 23	\$ 21
Heifers as % of cow numbers	<u>%</u>	75%	74%

Several factors are known to have an important influence on feed and crop expense per hundredweight of milk. Early cutting of hay and hay crop silage increases the amount of protein and energy that can be supplied by forage. Feeding according to production so that cows in early lactation are not underfed and cows in late lactation are not overfed increases the efficiency of concentrate use. Feeding a balanced, least-cost ration reduces the cost of the concentrate required to meet the cow's needs.

Machinery, Labor, and Miscellaneous Costs

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

LABOR & MACHINERY COSTS
Western Plains Dairy Farms, 1975 & 1974

Item	My Farm	Average 40 Farms 1975	Average 32 Farms 1974
Total Machinery 1	\$	\$24,578	\$23,032
Machinery Cost Per Cow		232	211
Machinery Costs/Cwt. Milk		1.70	1.56
Total Labor Costs ²		24,465	23,418
Labor Costs Per Cow		231	215
Labor Costs/Cwt. Milk		1.69	1.59
Labor & Machinery Costs/Cwt. Milk		3.39	3.15

Machinery depreciation, 7 percent interest on the average machinery inventory, machine hire, machinery repairs, farm share of auto expense and gas and oil are all included.

Both labor and machinery costs were higher in 1975 than in 1974. Western Plains farms summarizing in 1975 had labor and machinery costs of \$.24 per hundredweight of milk higher than that experienced by those farms summarizing in 1974.

MISCELLANEOUS COSTS CONTROL MEASURES
Western Plains Dairy Farms, 1975 & 1974

Item	My Farm	Average 40 Farms 1975	Average 32 Farms 1974
Veterinary & Medicine Per Cow	\$	\$22.96	\$23.08
Other Livestock Expense Per Cow		33.15	32.18
Real Estate Expense Per Cow		96.88	88.96
Total Farm Expenses Per Cow		1,310	1,290

Other livestock expenses per cow include dairy supplies, bedding and DHIC fees, but exclude breeding fees and milk marketing. Real estate expenses include repairs, taxes, insurance, and rent. Total farm expenses were \$20 per cow higher in 1975 than in 1974.

^{2/} Hired labor, family labor, and operator's labor valued at \$500 per month.

Family Living Expenditures

For business financial planning, the family living expenses must be considered along with the farm expenses. Below is a summary of the living expenditures for families in Minnesota who recorded their living expenses as part of their farm business management project.

FAMILY LIVING EXPENDITURES
102 Minnesota Farm Families, 1974

***************************************		Average of	102 Families
Item	My Family	Amount	Percent
Number in family		4.3	
Living Expenses			
Food and meals bought*	\$	\$ 2,171	22
Medical and hospital insurance		1,101	11
Clothing and clothing materials		930	10
Church and welfare		776	8
Furnishings and equipment		948	10
Operating and supplies		748	7
Upkeep on dwelling		247	3
Personal share of auto expense		534	6
Gifts and special events		551	6
Education		397	4
Recreation		654	7
Personal care and spending		401	4
Electricity & phone (home share)		226	2
TOTAL LIVING EXPENSES	\$	\$ 9,684	100
Taxes		2,733	
Life insurance		1,241	
Dwelling improvements		1,189	
Home share of new autos		636	
Other savings and investments		1,830	
TOTAL FAMILY EXPENDITURES	\$	\$17,313	
Sources of Family Income			program themse makes appear appears
Return from farm business	ė	\$32,264	
Income from outside investments	٧	1,031	
		1,130	
Other personal income		1,130	

SOURCE: Minnesota Econ. Info. Reports ER75-2 and ER75-3.

The average living expenses for 93 Minnesota families in 1973 was \$8,265. The average for 1974 was \$9,684 or an increase of 17 percent.

Many factors affect the expenditures of an individual family. The number in the family, ages of children, health problems, and special interests are examples. When comparing a family with the averages, these factors should be taken into consideration.

^{*} In addition, the family used farm produce valued at \$518.

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 chart shows how far the individual farm is above or below the midpoint of the 628 farms for each factor. The figure at the top of each column is the average of the top 10 percent of the 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.

FARM BUSINESS CHART FOR FARM MANAGEMENT COOPERATORS
628 New York Dairy Farms, 1974

Size	of Bus	siness	Rates of Production		Labor	Efficiency	
Man	No.	Pounds	Pounds	Tons Hay	Tons Corn	Cows	Pounds
Equiv-	of	Milk	Milk Sold	Crops	Silage	Per	Milk Sold
<u>alent</u>	Cows	Sold	Per Cow	.Per Acre	Per Acre	Man	Per Man
5.0	171	2,282,600	15,500	4.7	22	46	592,200
3.3	108	1,400,700	14,300	3.8	17	38	491,600
2.8	85	1,085,000	13,700	3.2	16	35	441,900
2.4	71	901,900	13,200	2.9	15	33	406,500
2.2	63	775,900	12,700	2.7	14	30	374,000
2.0	- 57	687,800	12,200	2.5	13	29	346,100
1.9	50	608,800	11,700	2.3	12	26	318,200
1.6	46	534,300	11,000	2.0	10	24	287,300
1.4	40	448,100	10,200	1.8	9	22	249,200
1.2	31	314,500	8,300	1.4	6	17	183,500
Feed		% Feed is	Machiner	·y	Labor and	Fee	ed and Crop
Bought		of Milk	Cost	-	Machinery		kpense Per
Per Cow		Receipts	Per Cow	<u> </u>	Cost Per Cow		Cwt. Milk
\$136		14%	\$101		\$273		\$2.03
205		21	139		320		2.51
240		25	160		348		2.72
269		27	177	371			2.93
298		29	190		391		3.12
323		31	206		414		3.30
353		34	223		440		3.50
382		36	243	•	469		3.71
423		39	269		509		4.00
518		47	355		617		4.70

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

Use this chart to analyze your dairy business by drawing a line through the figure in each column which represents your level of management.

		ar		
Item	1964	1969	1973	1974
Number of farms	434	511	609	628
Financial Summary				
Average capital invested	\$57,187	\$116,525	\$195,322	\$221,974
Total farm receipts	\$25,634	\$59,662	\$84,682	\$92,108
Total farm expenses	\$19,551	\$42,293	\$72 , 570 *	\$86,315*
Labor income per operator	\$2,958	\$7,885	\$10,195	\$4,880
Size of Business				
Number of cows	40	60	69	72
Pounds of milk sold	450,400	761,700	851,900	905,800
Crop acres	104	159	198	213
Man equivalent	1.7	2.1	2.2	2.4
Total work units	507	692	750	792
Rates of Production				
Milk sold per cow	11,260	12,700	12,350	12,580
Tons hay per acre	2.0	2.8	2.6	2.6
Tons corn silage per acre	12	16	13	14
Labor Efficiency				
Cows per man	24	29	32	30
Pounds milk sold per man	264,900	362,700	392,600	374,300
Work units per man	298	330	346	327
Cost Control Factors				
Machinery cost per cow	\$109	\$167	\$1 83	\$201
Machinery cost/cwt. milk	\$.97	\$1.32	\$1.49	\$1.60
Feed bought per cow	\$155	\$180	\$278	\$318
Feed bought/cwt. milk	\$1.38	\$1.42	\$2.25	\$2.53
Feed & crop expense/cwt. milk	\$1.65	\$1.68	\$2.81	\$3.26
% Feed is of milk receipts	31%	24%	31%	30%
Capital Efficiency				
Total investment per man	\$34,493	\$57,724	\$95,667	\$95,683
Total investment per cow	\$1,466	\$2,020	\$3,009	\$3,216
Machinery investment/cow	\$315	\$452	\$527	\$572
Total investment/cwt. milk	\$13	\$16	\$24	\$26
Other				
Price per cwt. milk sold	\$4.40	\$5.80	\$7.30	\$8.57
Acres hay crops	71	81	116	117
Acres corn silage	19	42	57	61
Total acres in crops/cow	2.6	2.6	2.9	3.0
Fertilizer & lime expense/crop		\$13	\$16	\$20
Farm income per cow	\$152	\$290	\$262	\$291
Labor income per cow	\$81	\$154	\$176	\$80

^{*} Includes interest paid, interest on equity capital, and building depreciation which were not included in total farm expenses prior to 1973.

FARM BUSINESS SUMMARY BY HERD SIZE 628 New York Dairy Farms, 1974

Less Tham			Farms	With:	
Capital Investment (end of year) Livestock \$21,278 \$31,450 \$42,334 \$51,267 Feed and supplies 7,521 9,432 15,710 18,560 Machinery and equipment 20,092 30,275 38,630 43,633 Land and buildings 69,120 81,110 114,041 127,209 TOTAL INVESTMENT \$118,011 \$152,267 \$210,715 \$240,669 \$21		Less Than	40 to	55 to	70 to
Livestock \$21,278 \$31,450 \$42,334 \$51,267 Feed and supplies 7,521 9,432 15,710 18,560 Machinery and equipment 20,092 30,275 38,630 43,633 Land and buildings 69,120 81,110 114,041 127,209 31,217 14,041 127,209 31,217 14,041 127,209 31,217 127,209 31,217 127,209 31,217 127,209 31,217 320,669 32,277 32	Item	40 Cows	54 Cows	69 Cows	84 Cows
Livestock \$21,278 \$31,450 \$42,334 \$51,267 Feed and supplies 7,521 9,432 15,710 18,560 Machinery and equipment 20,092 30,275 38,630 43,633 Land and buildings 69,120 81,110 114,041 127,209 31,217 14,041 127,209 31,217 14,041 127,209 31,217 127,209 31,217 127,209 31,217 127,209 31,217 320,669 32,277 32		•			
Feed and supplies			4 05 450	A 40 004	A 51 067
Machinery and equipment 20,092 30,275 38,630 43,633 Land and buildings 69,120 81,110 114,041 127,209 TOTAL INVESTMENT \$118,011 \$152,267 \$210,715 \$240,669 Receipts Milk sales \$31,538 \$48,189 \$63,537 \$79,361 Livestock sales 269 462 497 705 Miscellaneous receipts 777 871 1,166 1,297 Total Cash Receipts 35,881 \$35,620 \$71,215 \$87,572 Increase in feed & supplies 2,023 2,533 4,668 5,800 TOTAL FARM RECEIPTS \$37,904 \$56,153 \$75,873 \$93,372 Expenses Bird date \$9,877 14,843 18,544 24,407 Other feed 302 413 488 902 Machine hire 216 396 412 698 Machinery repair 1,340 2,134 2,821 3,396 Gas and oil <				-	
Land and buildings 69,120 81,110 114,041 127,209 TOTAL INVESTMENT \$118,011 \$152,267 \$210,715 \$240,668 \$318,011 \$152,267 \$210,715 \$240,668 \$31,538 \$48,189 \$63,537 \$79,361 \$1,005 \$20,005	_ 	-		•	
Receipts					
Receipts Milk sales \$ 31,538 \$ 48,189 \$ 63,537 \$ 79,361 Livestock sales 3,297 4,098 6,015 6,209 Crop sales 269 462 497 705 Miscellaneous receipts 777 871 1,166 1,297 Total Cash Receipts \$ 35,881 \$ 53,620 \$ 71,215 \$ 87,572 Increase in fieed & supplies	-				
Milk sales	TOTAL INVESTMENT	\$118,011	\$152,267	\$210,715	\$240,669
Livestock sales Crop sales 269 462 497 705 Miscellaneous receipts 777 871 1,166 1,297 Total Cash Receipts \$35,881 \$53,620 \$71,215 \$87,572 Increase in livestock	Receipts				
Crop sales 269 462 497 705 Miscellaneous receipts 777 871 1,166 1,297 Total Cash Receipts \$35,881 \$53,620 \$71,215 \$87,572 Increase in Idvestock — — — — TOTAL FARM RECEIPTS \$37,904 \$56,153 \$75,873 \$93,372 Expenses TOTAL FARM RECEIPTS \$37,904 \$56,153 \$75,873 \$93,372 Expenses THred labor \$1,026 \$2,216 \$4,114 \$5,734 Dairy feed 9,877 14,843 18,544 24,407 Other feed 302 413 488 902 Machine hire 216 396 412 698 Machine hire 216 396 412 698 Machine prepair 1,340 2,134 2,821 3,396 Auto expense (farm share) 210 277 325 281 Gas and oil 1,126 1,602 2,127 2,601		\$ 31,538	\$ 48,189	\$ 63,537	\$ 79,361
Miscellaneous receipts 777 871 1,166 1,297 Total Cash Receipts \$35,881 \$53,620 \$71,215 \$87,572 Increase in livestock	Livestock sales	3,297	4,098	6,015	6,209
Total Cash Receipts \$35,881 \$53,620 \$71,215 \$87,572 Increase in livestock Increase in feed & supplies \$2,023 2,533 4,658 5,800 TOTAL FARM RECEIPTS \$37,904 \$56,153 \$75,873 \$93,372 Expenses	Crop sales	269	462	497	705
Increase in livestock 2,023 2,533 4,658 5,800 TOTAL FARM RECEIPTS \$37,904 \$56,153 \$75,873 \$93,372 Expenses	Miscellaneous receipts	<u>777</u>	<u>871</u>	1,166	1,297
Increase in feed & supplies 2,023 2,533 4,658 5,800 TOTAL FARM RECEIPTS \$37,904 \$56,153 \$75,873 \$93,372	Total Cash Receipts	\$ 35,881	\$ 53,620	\$ 71,215	\$ 87,572
Expenses	Increase in livestock	-115 400			
Hired labor	Increase in feed & supplies	2,023			<u>5,800</u>
Hired labor \$1,026 \$2,216 \$4,114 \$5,734 Dairy feed 9,877 14,843 18,544 24,407 Other feed 302 413 488 902 Machine hire 216 396 412 698 Machinery repair 1,340 2,134 2,821 3,396 Auto expense (farm share) 210 277 325 281 Gas and oil 1,126 1,602 2,127 2,601 Purchased animals 2,123 1,577 3,332 2,603 Breeding fees 345 556 768 857 Veterinary and medicine 421 705 973 1,091 Other livestock expense 1,359 2,352 2,824 3,502 Fertilizer and lime 1,163 2,199 3,435 4,585 Seeds and plants 420 696 1,052 1,228 Spray and other crop expense 392 668 887 1,021 Land, bldg., fence repair 565 1,021 1,321 1,407 Taxes and insurance 1,461 2,025 2,625 3,349 Electricity & phone (farm share) 741 1,023 1,253 1,564 Interest paid 2,276 3,390 4,629 5,930 Miscellaneous expenses 501 1,040 1,131 1,728 Total Cash Operating Expenses \$25,864 \$39,133 \$53,247 \$66,884 Machinery depreciation 2,549 3,675 4,434 5,556 Real estate depreciation 1,000 1,512 2,026 2,516 Unpaid family labor 1,050 1,400 1,400 1,050 Interest on equity @ 7% 5,965 7,036 9,847 11,072 Decrease in livestock 1,208 1,097 1,921 1,552 TOTAL FARM EXPENSES \$37,636 \$53,853 \$72,875 \$88,630	TOTAL FARM RECEIPTS	\$ 37,904	\$ 56,153	\$ 75,873	\$ 93,372
Hired labor \$1,026 \$2,216 \$4,114 \$5,734 Dairy feed 9,877 14,843 18,544 24,407 Other feed 302 413 488 902 Machine hire 216 396 412 698 Machinery repair 1,340 2,134 2,821 3,396 Auto expense (farm share) 210 277 325 281 Gas and oil 1,126 1,602 2,127 2,601 Purchased animals 2,123 1,577 3,332 2,603 Breeding fees 345 556 768 857 Veterinary and medicine 421 705 973 1,091 Other livestock expense 1,359 2,352 2,824 3,502 Fertilizer and lime 1,163 2,199 3,435 4,585 Seeds and plants 420 696 1,052 1,228 Spray and other crop expense 392 668 887 1,021 Land, bldg., fence repair 565 1,021 1,321 1,407 Taxes and insurance 1,461 2,025 2,625 3,349 Electricity & phone (farm share) 741 1,023 1,253 1,564 Interest paid 2,276 3,390 4,629 5,930 Miscellaneous expenses 501 1,040 1,131 1,728 Total Cash Operating Expenses \$25,864 \$39,133 \$53,247 \$66,884 Machinery depreciation 2,549 3,675 4,434 5,556 Real estate depreciation 1,000 1,512 2,026 2,516 Unpaid family labor 1,050 1,400 1,400 1,050 Interest on equity @ 7% 5,965 7,036 9,847 11,072 Decrease in livestock 1,208 1,097 1,921 1,552 TOTAL FARM EXPENSES \$37,636 \$53,853 \$72,875 \$88,630	Expenses				
Dairy feed 9,877 14,843 18,544 24,407 Other feed 302 413 488 902 Machine hire 216 396 412 698 Machinery repair 1,340 2,134 2,821 3,396 Auto expense (farm share) 210 277 325 281 Gas and oil 1,126 1,602 2,127 2,601 Purchased animals 2,123 1,577 3,332 2,603 Breeding fees 345 556 768 857 Veterinary and medicine 421 705 973 1,091 Other livestock expense 1,359 2,352 2,824 3,502 Fertilizer and lime 1,163 2,199 3,435 4,585 Seeds and plants 420 696 1,052 1,228 Spray and other crop expense 392 668 887 1,021 Land, bldg., fence repair 565 1,021 1,321 1,407 Taxes and insura		\$ 1,026	\$ 2,216	\$ 4,114	\$ 5,734
Other feed 302 413 488 902 Machine hire 216 396 412 698 Machinery repair 1,340 2,134 2,821 3,396 Auto expense (farm share) 210 277 325 281 Gas and oil 1,126 1,602 2,127 2,601 Purchased animals 2,123 1,577 3,332 2,603 Breeding fees 345 556 768 857 Veterinary and medicine 421 705 973 1,091 Other livestock expense 1,359 2,352 2,824 3,502 Fertilizer and lime 1,163 2,199 3,435 4,585 Seeds and plants 420 696 1,052 1,228 Spray and other crop expense 392 668 887 1,021 Land, bldg., fence repair 565 1,021 1,321 1,407 Taxes and insurance 1,461 2,025 2,625 3,349 Electricit					
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Seeds and plants 420 696 1,052 1,228 Spray and other crop expense 392 668 887 1,021 Land, bldg., fence repair 565 1,021 1,321 1,407 Taxes and insurance 1,461 2,025 2,625 3,349 Electricity & phone (farm share) 741 1,023 1,253 1,564 Interest paid 2,276 3,390 4,629 5,930 Miscellaneous expenses 501 1,040 1,317 1,728 Total Cash Operating Expenses \$ 25,864 \$ 39,133 \$ 53,247 \$ 66,884 Machinery depreciation 2,549 3,675 4,434 5,556 Real estate depreciation 1,000 1,512 2,026 2,516 Unpaid family labor 1,050 1,400 1,400 1,050 Interest on equity @ 7% 5,965 7,036 9,847 11,072 Decrease in livestock 1,208 1,097 1,921 1,552 TOTAL FARM EXPENSES \$ 37,636 \$ 53,853 \$ 72,875 \$ 88,630	and the control of th				
Spray and other crop expense 392 668 887 1,021 Land, bldg., fence repair 565 1,021 1,321 1,407 Taxes and insurance 1,461 2,025 2,625 3,349 Electricity & phone (farm share) 741 1,023 1,253 1,564 Interest paid 2,276 3,390 4,629 5,930 Miscellaneous expenses 501 1,040 1,317 1,728 Total Cash Operating Expenses \$ 25,864 \$ 39,133 \$ 53,247 \$ 66,884 Machinery depreciation 2,549 3,675 4,434 5,556 Real estate depreciation 1,000 1,512 2,026 2,516 Unpaid family labor 1,050 1,400 1,400 1,050 Interest on equity @ 7% 5,965 7,036 9,847 11,072 Decrease in livestock 1,208 1,097 1,921 1,552 TOTAL FARM EXPENSES \$ 37,636 \$ 53,853 \$ 72,875 \$ 88,630		420			
Land, bldg., fence repair 565 1,021 1,321 1,407 Taxes and insurance 1,461 2,025 2,625 3,349 Electricity & phone (farm share) 741 1,023 1,253 1,564 Interest paid 2,276 3,390 4,629 5,930 Miscellaneous expenses 501 1,040 1,317 1,728 Total Cash Operating Expenses \$25,864 \$39,133 \$53,247 \$66,884 Machinery depreciation 2,549 3,675 4,434 5,556 Real estate depreciation 1,000 1,512 2,026 2,516 Unpaid family labor 1,050 1,400 1,400 1,050 Interest on equity @ 7% 5,965 7,036 9,847 11,072 Decrease in livestock 1,208 1,097 1,921 1,552 TOTAL FARM EXPENSES \$37,636 \$53,853 \$72,875 \$88,630		392	668		
Taxes and insurance 1,461 2,025 2,625 3,349 Electricity & phone (farm share) 741 1,023 1,253 1,564 Interest paid 2,276 3,390 4,629 5,930 Miscellaneous expenses 501 1,040 1,317 1,728 Total Cash Operating Expenses \$ 25,864 \$ 39,133 \$ 53,247 \$ 66,884 Machinery depreciation 2,549 3,675 4,434 5,556 Real estate depreciation 1,000 1,512 2,026 2,516 Unpaid family labor 1,050 1,400 1,400 1,050 Interest on equity @ 7% 5,965 7,036 9,847 11,072 Decrease in livestock 1,208 1,097 1,921 1,552 TOTAL FARM EXPENSES \$ 37,636 \$ 53,853 \$ 72,875 \$ 88,630		565	1,021	1,321	
Electricity & phone (farm share) 741 1,023 1,253 1,564 Interest paid 2,276 3,390 4,629 5,930 Miscellaneous expenses 501 1,040 1,317 1,728 Total Cash Operating Expenses \$ 25,864 \$ 39,133 \$ 53,247 \$ 66,884 Machinery depreciation 2,549 3,675 4,434 5,556 Real estate depreciation 1,000 1,512 2,026 2,516 Unpaid family labor 1,050 1,400 1,400 1,050 Interest on equity @ 7% 5,965 7,036 9,847 11,072 Decrease in livestock 1,208 1,097 1,921 1,552 TOTAL FARM EXPENSES \$ 37,636 \$ 53,853 \$ 72,875 \$ 88,630		1,461	2,025		
Interest paid 2,276 3,390 4,629 5,930 Miscellaneous expenses 501 1,040 1,317 1,728 Total Cash Operating Expenses \$ 25,864 \$ 39,133 \$ 53,247 \$ 66,884 Machinery depreciation 2,549 3,675 4,434 5,556 Real estate depreciation 1,000 1,512 2,026 2,516 Unpaid family labor 1,050 1,400 1,400 1,050 Interest on equity @ 7% 5,965 7,036 9,847 11,072 Decrease in livestock 1,208 1,097 1,921 1,552 TOTAL FARM EXPENSES \$ 37,636 \$ 53,853 \$ 72,875 \$ 88,630					
Total Cash Operating Expenses \$ 25,864 \$ 39,133 \$ 53,247 \$ 66,884 Machinery depreciation 2,549 3,675 4,434 5,556 Real estate depreciation 1,000 1,512 2,026 2,516 Unpaid family labor 1,050 1,400 1,400 1,050 Interest on equity @ 7% 5,965 7,036 9,847 11,072 Decrease in livestock 1,208 1,097 1,921 1,552 TOTAL FARM EXPENSES \$ 37,636 \$ 53,853 \$ 72,875 \$ 88,630		2,276	3,390	4,629	5,930
Machinery depreciation 2,549 3,675 4,434 5,556 Real estate depreciation 1,000 1,512 2,026 2,516 Unpaid family labor 1,050 1,400 1,400 1,050 Interest on equity @ 7% 5,965 7,036 9,847 11,072 Decrease in livestock 1,208 1,097 1,921 1,552 TOTAL FARM EXPENSES \$ 37,636 \$ 53,853 \$ 72,875 \$ 88,630	Miscellaneous expenses	501	1,040	1,317	1,728
Real estate depreciation 1,000 1,512 2,026 2,516 Unpaid family labor 1,050 1,400 1,400 1,050 Interest on equity @ 7% 5,965 7,036 9,847 11,072 Decrease in livestock 1,208 1,097 1,921 1,552 TOTAL FARM EXPENSES \$ 37,636 \$ 53,853 \$ 72,875 \$ 88,630	Total Cash Operating Expenses	\$ 25,864	\$ 39,133	\$ 53,247	\$ 66,884
Unpaid family labor 1,050 1,400 1,400 1,050 Interest on equity @ 7% 5,965 7,036 9,847 11,072 Decrease in livestock 1,208 1,097 1,921 1,552 TOTAL FARM EXPENSES \$ 37,636 \$ 53,853 \$ 72,875 \$ 88,630	Machinery depreciation	2,549	3,675	4,434	5,556
Interest on equity @ 7% 5,965 7,036 9,847 11,072 Decrease in livestock 1,208 1,097 1,921 1,552 TOTAL FARM EXPENSES \$ 37,636 \$ 53,853 \$ 72,875 \$ 88,630	Real estate depreciation	1,000	1,512	2,026	2,516
Decrease in livestock $\frac{1,208}{\$ 37,636} \frac{1,097}{\$ 53,853} \frac{1,921}{\$ 72,875} \frac{1,552}{\$ 88,630}$	Unpaid family labor	1,050	1,400	1,400	1,050
TOTAL FARM EXPENSES \$ 37,636 \$ 53,853 \$ 72,875 \$ 88,630	Interest on equity @ 7%	5,965	7,036	9,847	11,072
	Decrease in livestock	1,208	<u> </u>	<u>1,921</u>	$_{-1,552}$
Financial Summary	TOTAL FARM EXPENSES	\$ 37,636	\$ 53,853	\$ 72,875	\$ 88,630
	Financial Summary				
Total Farm Receipts \$ 37,904 \$ 56,153 \$ 75,873 \$ 93,372		\$ 37,904	\$ 56,153	\$ 75.873	\$ 93,372
Total Farm Expenses $\frac{37,636}{53,853}$ $\frac{53,853}{72,875}$ $\frac{72,875}{88,630}$					
Labor & Mgt. Income \$ 268 \$ 2,300 \$ 2,998 \$ 4,742					
Number of operators 1.03 1.06 1.16 1.30					
LABOR & MGT. INCOME/OPERATOR \$ 259 \$ 2,176 \$ 2,580 \$ 3,642	LABOR & MGT. INCOME/OPERATOR	ş 259	ş 2,176	\$ 2,580	\$ 3,642

FARM BUSINESS SUMMARY BY HERD SIZE 628 New York Dairy Farms, 1974

			Farms Wit	h:	
	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	\$ 63,035	\$ 77,954	\$ 84,644	\$ 93,890	\$131,637
Feed and supplies	23,207	33,161	37,999	42,295	62,532
Machinery and equipment	48,499	61,978	65,217	70,295	87,410
Land and buildings	<u>151,861</u>	172,663	<u>193,152</u>	201,596	<u>289,284</u>
TOTAL INVESTMENT	\$286,602	\$345,756	\$381,012	\$408,076	\$570,863
Receipts					
Milk sales	\$100,468	\$120,484	\$137,008	\$159,490	\$226,325
Livestock sales	8,345	11,963	10,849	13,348	18,940
Crop sales	696	972	1,243	1,500	4,742
Miscellaneous receipts	1,146	1,806	2,258	2,903	4,226
Total Cash Receipts	\$110,655	\$135,225	\$151,358	\$177,241	\$254,233
Increase in livestock		,	218	327	, ,
Increase in feed & supplies	4,768	10,867	9,384	12,496	19,840
TOTAL FARM RECEIPTS	\$115,423	\$146,092	\$160,960	\$190,064	\$274,073
	+110 y 110	7240,002	4100,500	4130,004	Y,075
Expenses					
Hired labor	\$ 8,498	\$ 12,760	\$ 14,307	\$ 17,335	\$ 29,179
Dairy feed	28,028	36,015	40,502	46,982	62,516
Other feed	1,239	2,154	3,537	1,436	4,864
Machine hire	568	553	856	1,656	3,000
Machinery repair	3,892	5,646	6,582	7,595	10,597
Auto expense (farm share)	370	259	352	391	361
Gas and oil	2,807	3,467	4,300	4,900	6,592
Purchased animals	3,396	4,257	3,678	10,031	7,945
Breeding fees	1,191	1,414	1,419	1,838	2,007
Veterinary and medicine	1,360	1,779	2,163	2,763	3,827
Other livestock expense	4,076	6,294	5,342	8,303	10,053
Fertilizer and lime	5,601	7,264	8,453	10,099	14,206
Seeds and plants	1,370	1,782	2,435	2,112	3,464
Spray and other crop expense	1,194	2,434	2,165	2,297	4,076
Land, bldg., fence repair	1,699	2,718	1,853	2,209	3,603
Taxes and insurance	3,980	4,889	4,721	5,390	7,911
Electric & phone (farm share)	1,862	2,185	2,198	2,623	3,405
Interest paid	6,409	7,803	8,893	11,881	14,368
Miscellaneous expenses	2,129	$_{2,777}$	<u>3,736</u>	4,804	6,793
Total Cash Operating Exp.	\$ 79,669	\$106,450	\$117,492		\$198,767
Machinery depreciation	6,205	6,607	8,393	7,261	10,275
Real estate depreciation	3,401	4,506	3,982	5,175	7,056
Unpaid family labor	700	700	1,400	700	700
Interest on equity @ 7%	13,052	16,574	18,742		27,922
Decrease in livestock	577	2,929			642
TOTAL FARM EXPENSES	\$103,604	\$137,766	\$150,009	\$175,485	***************************************
Financial Summary				•	-
Total Farm Receipts	\$115 422	\$146,092	\$160.040	\$100.064	6974 072
Total Farm Expenses					
=	103,604				
——————————————————————————————————————	\$ 11,819			\$ 14,579	
Number of operators	1.33	1.36	1.40	1.35	1.46
LABOR & MGT. INCOME/OPERATOR	\$ 8,866	\$ 6,118	\$ 7,822	\$ 10,783	\$ 19,679
		•	•	•	

SELECTED BUSINESS FACTORS BY HERD SIZE 628 New York Dairy Farms, 1974

		Farms	Farms with:		
	Less Than	40 to	55 to	70 to	
Item	40 Cows	54 Cows	69 Cows	84 Cows	
Number of farms	87	173	135	76	
Size of Business					
Number of cows	32	46	61	75	
Number of heifers	22	33	43	56	
Pounds of milk sold	375,000	567,800	751,600	928,600	
Man equivalent	1.5	1.8	2.2	2.4	
Total work units	364	516	681	842	
Crop acres	102	140	192	234	
Rates_of Production	102	1.40	172	234	
Milk sold per cow	11,700	12,300	12,300	12,400	
Tons hay crops per acre	2.3	2.4	2.4	2.4	
Tons corn silage per acre	13.4	13.2	13.3	12.9	
Bushels of oats per acre	57	58	56	56	
	31	70	90	50	
Labor Efficiency	21	25	20	21	
Cows per man	21	25	28	31	
Pounds milk sold per man	250,000	310,300	346,400	383,700	
Work units per man	243	282	314	348	
Feed Costs	4000	4000	4001	4005	
Feed purchased per cow	\$309	\$323	\$304	\$325	
Crop expense per cow	\$62	\$77	\$88	\$91	
Feed cost per cwt. milk	\$2.63	\$2.61	\$2.47	\$2.63	
Feed & crop exp./cwt. milk	\$3.16	\$3.24	\$3.18	\$3.36	
% Feed is of milk receipts	31%	31%	29%	31%	
Hay equivalent per cow	7.4	7.9	8.2	8.0	
Crop acres per cow	3.2	3.0	3.1	3.1	
Fertilizer & lime/crop acre	\$11	\$16	\$18	\$20	
Machinery and Labor Costs					
Total machinery costs	\$6,796	\$10,099	\$12,691	\$15,465	
Machinery cost per cow	\$212	\$220	\$208	\$206	
Machinery cost/cwt. milk	\$1.81	\$1.78	\$1.69	\$1.67	
Labor cost per cow	\$252	\$220	\$205	\$190	
Labor cost per cwt. milk	\$2.15	\$1.78	\$1.66	\$1.54	
Capital Efficiency					
Investment per man	\$78,674	\$83,206	\$97,104	\$99,450	
Investment per cow	\$3,688	\$3,310	\$3,454	\$3,209	
Investment per cwt. milk	\$31	\$27	\$28	\$26	
Land & buildings per cow	\$2,160	\$1,763	\$1,870	\$1,696	
Machinery investment/cow	\$628	\$658	\$633	\$582	
Capital turnover	3.1	2.7	2.8	2.6	
Other					
Price per cwt. milk sold	\$8.41	\$8.49	\$8.45	\$8.55	
Acres hay crops	71	89	112	136	
Acres corn silage	20	36	52	65	
Inventory changes 1974:*	20	30	J-4	Ų,	
Number of cows	+1	+2	+2	+5	
Inv. value per cow**	-\$55	- \$53	-\$53	- \$67	
	422	423	473	-γυ/	

^{*} Change from 1/1/74 to 1/1/75. ** Livestock inventory includes heifers.

SELECTED BUSINESS FACTORS BY HERD SIZE 628 New York Dairy Farms, 1974

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	42	36	25	17	37
Size of Business					
Number of cows	91	105	122	138	197
Number of heifers	63	82	85	95	126
Pounds of milk sold	1,176,400	1,393,900	1,588,900	1,812,800	2,590,400
Man equivalent	2.8	3.3	3.8	3.8	5.3
Total work units	973	1,179	1,329	1,487	2,122
Crop acres	237	318	340	379	551
Rates of Production					
Milk sold per cow	12,900	13,300	13,000	13,100	13,100
Tons hay crops per acre	3.3	2.9	3.0	3.0	3.1
Tons corn silage/acre	13.9	15.1	12.8	14.9	13.7
Bushels oats/acre	64	60	62	75	73
Labor Efficiency					
Cows per man	32	32	33	36	38
Pounds milk sold/man	415,700	418,589	423,700	473,300	493,400
Work units per man	344	354	354	388	404
Feed Costs	344	334	33.	300	404
Feed purchased per cow	\$308	\$343	\$332	\$340	\$317
Crop expense per cow	\$90	\$109	\$107	\$105	\$110
Feed cost per cwt. milk	\$2.38	\$2.58	\$2.55	\$2.59	\$2.41
Feed & crop exp./cwt. milk		\$3.41	\$3.37	\$3.39	\$3.25
% Feed is of milk receipts	28%				28%
Hay equivalent per cow	8.0	8.6	8.0	8.5	7.8
Crop acres per cow	2.6	3.0	2.8	2.7	2.8
Fertilizer & lime/crop acre		\$23	\$25	\$27	\$26
Machinery and Labor Costs	724	423	723	927	920
	\$17,082	620 622	621 716	626 600	626 /15
Total machinery costs	\$17,082	\$20,622 \$196	\$24,746	\$26,409	\$36,415
Machinery cost per cow			\$203	\$191	\$185
Machinery cost/cwt. milk	\$1.45	\$1.48	\$1.56	\$1.46	\$1.41
Labor cost per cow	\$189	\$204	\$198	\$189	\$195
Labor cost/cwt. milk	\$1.46	\$1.54	\$1.52	\$1.44	\$1.48
Capital Efficiency	4101 070	4100 001	A * A *	****	
Investment per man	\$101,273	\$103,831	\$101,603	\$106,547	\$108,736
Investment per cow	\$3,149	\$3,293	\$3,123	\$2,957	\$2,898
Investment/cwt. milk	\$24	\$25	\$24	\$23	\$22
Land & buildings/cow	\$1,669	\$1,644	\$1,583	\$1,461	\$1,468
Machinery investment/cow	\$533	\$590	\$535	\$509	\$444
Capital turnover	2.5	2.4	2.4	2.1	2.1
<u>Other</u>					
Price per cwt. milk sold	\$8.54	\$8.64	\$8.62	\$8.80	\$8.74
Acres hay crops	124	162	163	174	234
Acres corn silage	69	86	111	131	181
Inventory changes 1974:*					
Number of cows	+3	+4	+8	+7	+7
Inv. value per cow**	-\$29	- \$55	-\$43	-\$32	-\$27

^{*} Change from 1/1/74 to 1/1/75.
** Livestock inventory includes heifers.

FARM FAMILY FINANCIAL SITUATION 591* New York Dairy Farms, January 1, 1975

	Farms with:			
	Less than	40 to	55 to	70 to
Item	40 Cows	54 Cows	69 Cows	84 Cows
Number of farms	82	162	126	71
Assets				
Livestock	\$ 21,366	\$ 31,402	\$ 42,081	\$ 50,934
Feed and supplies	7,633	9,424	15,817	18,439
Machinery & equipment	20,042	30,391	39,185	43,569
Land and buildings	69,237	81,277	114,869	129,309
Co-op investment	1,047	1,588	2,956	3,533
Accounts receivable	1,892	2,943	4,236	5,083
Cash & checking accounts	1,003	<u>955</u>	1,450	1,602
Total Farm Assets	\$122,220	\$157,980	\$220,594	\$252,469
Savings accounts	1,767	2,544	3,035	1,960
Cash value life insurance	1,645	1,922	2,152	2,730
Stocks and bonds	1,621	1,236	623	2,043
Nonfarm real estate	2,442	1,836	2,808	2,133
Auto (personal share)	581	752	878	928
All other	<u>2,635</u>	1,107	3,908	2,787
Total Nonfarm Assets	\$ 10,691	\$ 9,397	\$ 13,404	\$ 12,581
TOTAL ASSETS	\$132,911	\$167,377	\$233,998	\$265,050
<u>Liabilities</u>				
Real estate mortgage	\$ 21,453	\$ 32,111	\$ 43,666	\$ 51,764
Liens on cattle & equipt.	11,018	17,790	25,747	29,983
Installment contracts	2,106	2,279	3,981	2,477
Notes & other farm debts	2,651	5,231	7,923	8,838
Total Farm Liabilities	\$ 37,228	\$ 57,411	\$ 81,317	\$ 93,062
Nonfarm Liabilities	348	460	409	767
TOTAL LIADILITED	¢ 27 576			
TOTAL LIABILITIES	\$ 37,576	\$ 57,871	\$ 81,726	\$ 93,829
Farm Net Worth (Equity Capital)	\$ 84,992	\$100,569	\$139,277	\$159,407
FAMILY NET WORTH	\$ 95,335	\$109,506	\$152,272	\$171,221
Financial Measures				
Percent equity	72%	65%	65%	65%
Farm debt per cow	\$1,128	\$1,222	\$1,312	\$1,225
Available for debt service	,,	, _ ,	72,022	Y1,223
and living	\$12,189	\$17,914	\$22,574	\$26,891
Scheduled annual debt	,,,	7-192-4	Y 44 4 5 5 7 4	Q20,071
payments	\$6,193	\$9,408	\$13,015	\$16,695
Scheduled debt payment	70,233	43,400	413,01 3	710,073
per cow	\$188	\$200	\$210	\$220
Scheduled debt payment	,	7200	7210	7220
as % milk check	20%	20%	20%	21%
				*** /\

^{* 37} of the 628 farms did not report.

FARM FAMILY FINANCIAL SITUATION
591 New York Dairy Farms, January 1, 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	39	35	24	17	35	
Assets		•				
Livestock	\$ 61,916	\$ 78,086	\$ 83,738	\$ 93,890	\$130,800	
Feed and supplies	23,318	33,229	37,275	42,295	62,121	
Machinery & equipment	49,326	61,988	65,462	70,295	85,731	
Land and buildings	153,332	170,311	198,867	201,597	292,981	
Co-op investment	3,915	6,223	8,614	9,031	11,968	
Accounts receivable	7,035	9,349	10,675	13,687	21,889	
Cash & checking accounts	1,770	2,068	1,393	1,412	4,267	
Total Farm Assets	\$300,612	\$361,254	\$406,024	\$432,207	\$609,757	
Savings accounts	3,137	3,140	4,622	2,197	2,435	
Cash value life insurance	3,193	3,298	1,850	3,157	2,774	
Stocks and bonds	1,929	1,844	1,975	2,425	4,561	
Nonfarm real estate	315	1,965	12,839	15,600	5,167	
Auto (personal share)	1,138	1,103	1,518	950	923	
All other	1,360	1,945	4,601	735	2,310	
Total Nonfarm Assets	\$ 11,072	\$ 13,295	\$ 27,405	\$ 25,064	\$ 18,170	
TOTAL ASSETS	\$311,684	\$374,549	\$433,429	\$457,271	\$627,927	
<u>Liabilities</u>						
Real estate mortgage	\$ 56,996	\$ 68,547	\$ 69,418	\$ 79,271	\$ 98,356	
Liens on cattle & equipt.	41,332	44,641	55,508	65,832	66,034	
Installment contracts	3,358	3,728	6,484	6,718	6,628	
Notes and other farm debts	11,108	11,592	5,616	27,466	30,189	
Total Farm Liabilities	\$112,794	\$128,508	\$137,026	\$179,287	\$201,207	
Nonfarm Liabilities	45	1,091	1,442	420	3,051	
TOTAL LIABILITIES	\$112,839	\$129,599	\$138,468	\$179,707	\$204,258	
Farm Net Worth	\$187,818	\$232,746	\$268,998	\$252,920	\$408,550	
(Equity Capital) FAMILY NET WORTH	\$198,845	\$244,950	\$294,961	\$277,564	\$423,669	
Financial Measures						
Percent equity	64%	65%	68%	61%	67%	
Farm debt per cow	\$1,239	\$1,212	\$1,123	\$1,299	\$1,043	
Available for debt service	71,239	71,212	31,123	71,299	ŞI,U43	
and living	\$37,145	\$36,769	\$41,587	\$44,468	\$70,173	
Scheduled annual debt	610 517	600 001	401 001	An= 1	400	
payments Scheduled debt payment	\$18,517	\$22,884	\$24,324	\$31,406	\$38,119	
• •	6202	6016	6100	6220	61.00	
per cow Scheduled debt payment	\$203	\$216	\$199	\$228	\$198	
as % milk check	18%	19%	18%	20%	17%	

Selected Competitive Dairy Areas

Dairy business summary data from four states are presented below. These were taken from reports on farm business management projects similar to the ones in New York. An examination of these data will show how New York's dairy operations compare with those in competing areas.

1974 DAIRY FARM BUSINESS SUMMARY DATA

Item	New York	Maine	Vermont	Wisconsin
Number of farms	628	68	123	814
Size of Business				
Number of cows	72	77	67	50
Total crop acres	213	255	178	194
Pounds of milk sold	905,800	954,269	813,636	603,849
Man equivalent	2.4	2.9	2.2	1.8
Rates of Production				
Milk sold per cow	12,580	12,442	12,122	12,024
Tons hay per acre	2.6	2.6	2.0	3.7
Tons corn silage per acre	14	14	15	12
Labor Efficiency				
Cows per man	30	27	30	28
Pounds milk sold per man	374,300	331,496	363,918	335,027
Cost Control Factors				
Feed bought per cow	\$318	\$420	\$354	\$228
% Feed is of milk receipts	30%	36%	33%	23%
Fertilizer & lime per cow	\$60	\$72	\$50	\$53
Taxes per cow	\$25	\$22	\$26	\$32
Veterinary per cow	\$16	\$15	\$14	NA
Labor costs per cow	\$201	\$223	\$198	\$210
Capital Efficiency				
Total capital investment	\$231,553	\$194,410	\$167,103	\$142,033*
Total investment per cow	\$3,216	\$2,535	\$2,490	\$2,840*
Machinery investment/cow	\$572	\$450	\$410	\$524
Prices				
Price/cwt. 3.5% milk sold	\$8.57	\$9.40	\$8.95	\$8.07
Financial Summary				
Total farm receipts	\$92,108	\$103,927	\$81,044	\$73,823
Total farm expenses	\$86,315	\$95,639	\$72,968	\$60,144
Labor income per operator	\$4,880	\$8,288	\$8,076	\$12,435

SOURCE: 1974 ELFAC Dairy Farm Business Analysis, NEC-70, June 1975 (Maine & Vermont). Wisconsin Report of 1974 Farm Record Summaries, August 1975.

^{*} Depreciated values.