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# 1969 DAIRY FARM BUSINESS SUMMARY

# WESTERN PLATEAU REGION

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Department of Agricultural Economics New York State College of Agriculture A Statutory College of the State University Cornell University, Ithaca, New York This report summarizes the records of 48 Western Plateau dairy farmers who in 1969 participated in business management projects sponsored by the Cooperative Extension Service in Allegany, Cattaraugus, Chautauqua and Erie Counties and the Department of Agricultural Economics at Cornell University. The data presented here do not represent the average of all dairymen in these counties but the average of a group of dairymen interested enough in their farm businesses to keep good records and take the time to study and analyze them. Averages for the group of farms in each of these counties are included at the end of the publication. These are not to be taken as indicative of the relative profitability of dairy farming in the various counties.

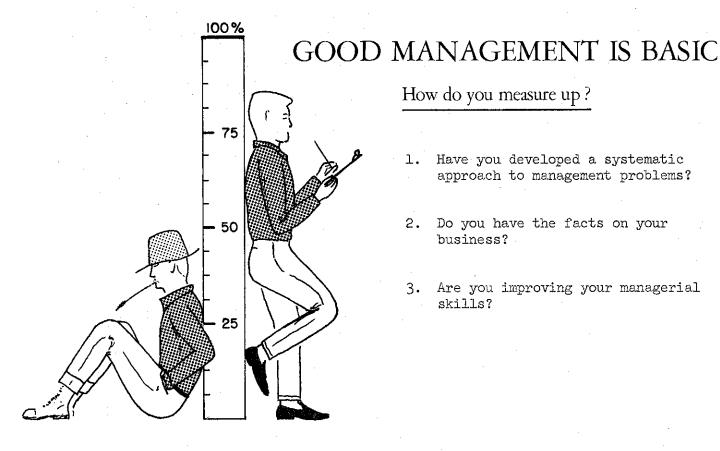
One of the purposes of the business management projects is to teach and encourage farmers to keep better records. A more important purpose is to teach farmers to use the records as a basis for sound management decisions. The business analysis beginning on Page 10 is a good starting point for using your farm records in decision making. Your records should be useful as a basis for budgeting the probable consequences of the alternatives available to you in the operation of your farm business.

Farmers in many counties of New York State participate in business management projects similar to those in the Western Plateau Region. Some of the data included in this booklet is taken from the 1968 records of 568 New York dairy farmers. This gives farmers the opportunity to compare their business with a larger group of their competitors. The larger number of farmers also makes possible the sorting of farms into groups, thereby allowing comparisons that could not be made from the relatively small number of records in any one county.

Note that in calculating Labor Income (Page 9) and Machinery Costs (Page 14) interest has been charged at seven percent rather than at the 5 percent rate used in the past. The interest charge is intended to reflect the fact that the capital invested in the business would earn a return if invested elsewhere. Thus, the interest charge is not necessarily the interest rate on borrowed money but is an "opportunity cost" -- the rate of return the capital would earn if invested elsewhere. This opportunity cost varies from farm to farm but there is no doubt that alternative investments -- savings accounts, government bonds, etc. -- returned a much higher rate of interest in 1969 than in earlier years. This situation, plus the fact that interest rates on borrowed money were much higher in 1969 than two or three years earlier, was the basis for the decision to use a 7 percent interest charge for 1969. Note also that on Pages 9 and 14, the 1968 data for 568 New York farms has been recalculated using a 7 percent interest rate.

The information in this report should be useful to farmers in the county who are not enrolled in the business management projects. It should also be helpful to persons who work with farmers, such as agricultural teachers and credit representatives.

This summary was prepared by George L. Casler, Department of Agricultural Economics, Cornell University. The following Cooperative Extension Agents supervised the projects within the counties and assisted with the summarization of the records: Charles Hebblethwaite, Allegany; Roger Lord, Cattaraugus; Richard Zimmer, Chautauqua; and Thomas Jorgensen, Erie.



#### How do you measure up?

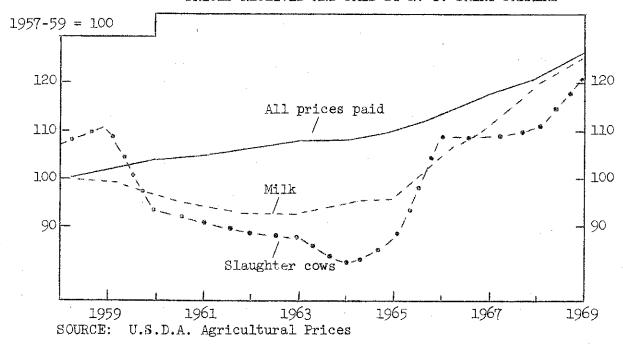
- Have you developed a systematic approach to management problems?
- Do you have the facts on your business?
- Are you improving your managerial skills?

#### Steps in making a management decision:

- Locate the trouble spot (problem)
- What is your objective? (goal)
- Size up what you have to work with (resources) 3.
- 4. Look for various ways to solve the problem (alternatives)
- 5. Consider probable results of each way (consequences)
- 6. Compare the expected results (evaluate)
- Select way best suited to your situation (decision) 7.
- Put the decision into operation (action)

This workbook can help you!





Prices are one of the important factors affecting farm incomes. The relationship of prices received and prices paid determines the general level of farm incomes. The blended New York farm price for 3.5% milk in 1969 averaged \$5.67 per hundredweight. This was 24 cents higher than the average for 1968 and \$1.40 more than 1965. Cull dairy cow prices also were good in 1969. The overall index of prices paid by New York dairy farmers continued to rise in 1969.

In recent years, prices of some farm inputs have risen while others have declined. From 1965 to 1969, farm wages rose 35 percent, dairy cows rose 41 percent, while feed declined 3 percent, and fertilizer prices declined slightly. These differences give rise to management questions concerning substitutions.

AVERAGE YEARLY PRICES RECEIVED AND PAID BY N. Y. FARMERS, 1960-69

Year	Milk (cwt.)	Slaughter cows (cwt.)	Dairy cows (head)	Dairy ration (ton)	Wages per month with house	Prices paid by New York dairymen
1960 1961 1962 1963 1964 1965 1966 1967 1968	\$4.31 4.21 4.14 4.10 4.21 4.27 4.79 5.07 5.43 5.67	\$15.00 14.60 14.26 14.01 13.17 13.91 17.35 17.33 17.58 19.42	\$278 260 245 234 237 238 269 303 319 336	\$71 72 74 76 74 76 80 80 74	\$210 213 218 221 227 235 258 291 306 316	104 105 106 108 108 110 113 118 121

<sup>\*</sup> Preliminary

## PART I SUMMARY OF THE FARM BUSINESS

The first part of this booklet is designed to enable you to summarize your business in a systematic, orderly manner. It provides an opportunity to study your physical resources, capital investment, receipts, and expenses. This is the first step to be taken in the study and analysis of your farm business.

#### PHYSICAL RESOURCES

Knowledge of what resources are employed and how they are combined is fundamental to sound business planning. This includes both the physical and financial resources of the business. Below are listed the physical resources of this group of Western Plateau Region dairy farms.

FARM ORGANIZATION

	Average of		48 W	estern	Plateau		
	568 New Yo					Ran	
Item	Farms, 196	68 My Farm	Aver	age		Low	High
<u>Labor</u> :							
Man equivalent	2.1		1.	9		1.0	3.5
Full-time hired men Hired men part of year Family help Partnerships			(26 (38	erms) farms) farms) farms)			
<u>Livestock</u> : (Av. Number)							
Cows Heifers	58 40		5 4	;4 ·5		21 0	142 226
Crops: (Acres grown)**							
Hay and hay crop silage	90 (5	60)*	76	(45)*		20	182
Corn for silage	38 (5	15)*	37	(41)*		0	140
Corn for grain	8 (1	49)*	6	(17)*		0	40
<pre>p Oats for grain</pre>	12 (2	75)*	9	(20)*		0	60
Other crops	<u> </u>	<b>*</b>	7				
Total crop acres	155	**************************************	135			60	387

<sup>\*</sup>Number of farmers that reported each crop.

<sup>\*\*</sup>Crop data from 560 of the 568 New York farms and 45 of the 48 Western Plateau farms.

#### CAPITAL INVESTMENT

Management of the capital resource of a farm business is becoming increasingly important. To measure the complete financial progress of a dairy farm, year to year changes in the capital structure must be considered.

In this report borrowed as well as owned capital is included and the endof-year farm inventory is used as the measure of capital investment.

FARM INVENTORY VALUES, end of year

	Average of		48 Western Farms	_
Item	568 New York Farms, 1968	My Farm	Average Per Farm	Percent of Total
Machinery and equipment	\$ 25,247	\$	\$ 25,886	24
Cattle	27,317		28,430	26
Other livestock	*** >==		115	year ages
Feed and supplies	7,6 <u>3</u> 8		7,287	7
Land and buidings	<u>51.,733</u>		47,237	<u>43</u>
Total Investment	\$111,935	\$	\$108,955	100

In many farm businesses, poor capital efficiency is a major cause of low profits. The following measures of capital efficiency will help you evaluate your overall capital management.

INVESTMENT ANALYSIS

Item	Average of 568 New York Farms, 1968	My Farm	Average of 48 Western Plateau Farms, 1969
Machinery and equipment per cow	\$ 435	\$	\$ 479
Land and buildings per cow	\$ 892	\$	\$ 875
Total Investment per cow	\$ 1,930	\$	\$ 2,018
Total Investment per man	\$53,302	\$	\$57,344
Total Investment per crop acre	\$ 722	\$	\$ 807
Real Estate Investment/crop acre	\$ 334	\$	\$ 350
Capital turnover*	2.5 years		years 2.4 years

<sup>\*</sup>Calculated by dividing the total year end investment by the total cash receipts for the year.

#### WHERE THE MONEY CAME FROM

A successful farm business requires a level of gross earnings great enough to pay all costs, both operating and overhead, and leave a margin for the operator's labor. Here we examine the sources of receipts for this group of dairy farms.

#### FARM RECIPTS

	Average of		48 Western Farms,	
Item	568 New York, Farms, 1968	My Farm	Average Per Farm	Percent
Milk sales	\$39,477	\$	\$39,038	84
Livestock sold	3,915		5,111	11
Crop sales	393	- <u> </u>	.826	2
Miscellaneous*	1,301		<u>1,316</u>	<u>3</u>
TOTAL CASH RECEIPTS	\$45,086	\$	\$46,291	100
Increase in inventory	8,161		9,327	
TOTAL FARM RECEIPTS	\$53,247	\$	\$55,618	

<sup>\*</sup>Includes work off farm, conservation payments, refunds, etc.

Increases in inventory resulting from more cows, more machinery and equipment, additions to buildings or a better feed situation are a normal occurrence in most "going" farm businesses and are considered as farm receipts. These items could have been sold and turned into cash receipts, but instead the operator decided to invest this additional capital in his business. The cost of producing or acquiring these items normally is included in the farm expenses.

The increase in inventory on these farms was made up of the following: Equipment - \$2,272, Livestock - \$1,966, Feed and Supplies - \$739, Land and Buildings - \$4,350. On some farms, the increase in inventory was more than could actually be justified. For example, cow values on some farms were increased markedly from the beginning to the end of the year. In some cases, insufficient depreciation was taken on equipment. In summary, the \$9,327 average increase in inventory may overstate the actual increase in value of assets on these farms during 1968.

#### SELECTED INCOME FACTORS

	Average of 568 New York Farms, 1968	My Farm	48 Western Plateau Farms, 1969
Average price per cwt. of milk sold Milk sales per cow Total cash receipts per man	\$ 5.52 \$ 681 \$21,470	\$ 5	\$ 5.65 \$ 723 \$24,364

#### WHERE THE MONEY WENT

Some farmers may be able to increase profits by reducing costs. This requires a complete knowledge of what the business expenses are. With the large amount of cash flowing through a farm business today it is important that the farm operator study his expenses closely. Here is an opportunity for you to see how your're doing.

FARM EXPENSES

	Average of		48 Western Farms,	1969
Item	568 New York Farms, 1968		Average Per Farm	Percent of Total
Hired labor	\$ 3,006	\$	\$ 2,059	8
Dairy feed bought	9,459		9,429	37
Other feed bought (includes hay)	259		363	1
Machine hire	287		256	1
Truck, tractor, machinery expense	1,605		1,640	6
Auto expense (farm share)	247		198	1
Gasoline and oil	1,136		1,043	14
Breeding fees	401		475	2
Veterinary and medicine	645		888	3
Other dairy, livestock expense	1,745		1,940	8
Lime and fertilizer	1,732		2,146	9
Seeds and plants	460		536	2
Spray, other crop expense	430		543	2
Building, fence expense	775		827	3
Taxes, insurance	1,851		1,650	7
Electricity, telephone (farm share)	741		616	3
Miscellaneous	818		<u>867</u>	3
TOTAL CASH OPERATING EXPENSES	\$25,597	\$	\$25,476	100
New machinery	6,178	****	5,662	
New buildings, improvements	3,301		4,727	
Livestock purchased	1,823		2,640	
Unpaid family labor	818		975	
Decrease in inventory			·	
TOTAL FARM EXPENSES	\$37,717	\$	\$39,480	

#### FINANCIAL SUMMARY OF THE YEAR'S BUSINESS

There are several ways of measuring the returns from a farm business. These measures have been developed for specific purposes. The measure selected at any one time will depend on the purpose for which it is to be used.

Three measures are used here. The first is "Farm Cash Operating Income". The second, "Labor Income", is a measure of the returns to the operator for his labor and management. The last one is "Return on Investment".

#### FARM CASH OPERATING INCOME

Item	Average of 568 New York Farms, 1968	My Farm	Average of 48 Western Plateau Farms, 1969
Total Cash Receipts	\$45,086	\$	\$46,291
Total Cash Operating Expenses	<b>-</b> 25,597		- <u>25,476</u>
FARM CASH OPERATING INCOME	\$19,489	\$	\$20,815
Less: Family Living Expense*	<u>- 6,275</u>		<u>-6,525</u>
Amount available for debt paymen and purchase of capital items		\$	\$14,290

<sup>\*</sup>Estimated cash living expenses @ \$5,400 per operator.

"Farm Cash Operating Income" is the amount of money available from the farm business for family living, debt payments, and purchases of new capital items such as equipment, real estate, and livestock.

The "cash flow" of a farm business is important to the operator and his family in planning for capital purchases, debt payments and living expenses. However, the above measures are not good indicators of the profitability of your farm business. This is because you may increase the amount of cash available during the year by selling off or using up some of your farm property or, more likely, you decrease the amount of cash available by investing more dollars in your business during the year. Labor Income is a much better measure of what the business did for you during the year.

LABOR INCOME

Item	Average of 568 New York Farms, 1968	My Farm	Average of 48 Western Plateau Farms, 1969
Average capital investment	\$107,855	\$	\$104,292
TOTAL FARM RECEIPTS	\$53,247	\$	\$55,618
TOTAL FARM EXPENSES	- <u>37,717</u>	<u></u>	-39,480
FARM INCOME	\$15,530	\$	\$16,138
Interest on capital at 7%	<u>-7,550</u>		<u>-7,302</u>
LABOR INCOME per far	\$ 7,980	\$	\$ 8,836
Number of operators	660	**************************************	. 58
IABOR INCOME per operator	\$ 6,868	\$	\$ 7,313

"Labor Income" is a measure used to determine the return the farm operator receives for his labor and management. It is the amount left after paying all farm expenses, and deducting charges for unpaid family labor and for interest on all of the capital invested in the farm business. Labor Income is the measure most commonly used when studying or comparing farm businesses.

Interest payments and payments on debts are not included in the farm expenses. To make all farms comparable, a 7 percent interest charge on the average capital investment (average of beginning and end inventories) is deducuted in calculating Labor Income.

In addition to Labor Income, the family has "farm privileges" such as the use of a house and farm produced food. These items may amount to \$1,000 or more per year.

RETURN ON INVESTMENT

Item	Average of 568 New York Farms, 1968	My Farm	Average of 48 Western Plateau Farm, 1969
Farm Income	\$15,530	\$	\$16,138
Value of Operator's Labor*	-6,275	pow	-6,525
Return on Investment	\$ 9,255	\$	\$ 9,603
Rate of Return on Capital	8.6%	%	9.2%

\*\$5,400 per year. There were 58 operators on the 48 Western Plateau dairy farms.

"Return on Investment" is calculated by deducting from the "farm income" a charge for the operator's labor. This return is then divided by the average capital investment for the year to arrive at the rate of return on investment.

## PART II ANALYSIS OF THE FARM BUSINESS

A farmer's success depends on the resources available to him and his ability to manage the use of these resources. He must understand and apply basic principles of farm management.

Farm management studies indicate that certain business factors are related to labor income. Four important factors are size of business, labor efficiency, rates of production, and cost control. The averages presented here are not intended to represent what is "best". They are to help you see how your farm business compares with those of a group of your competitors.

#### SIZE OF BUSINESS

In general, large farms pay better than small farms. Larger farms make it possible to use equipment and other items of production more efficiently. However, some 40 cow farms make larger incomes than others with 100 cows. This can happen when other factors are not in balance with size of business.

#### MEASURES OF SIZE OF BUSINESS

		Ave	rage per farm
Item	My Farm	48 Western P Farms, 19	Lateau 568 New York
Number of cows		54	58
Pounds of milk sold		691,100	715,200
Man equivalent		1.9	2.1
Total work units		638	692

In the following table, the New York dairy farms have been sorted into various size groups. For each size group the average labor income per operator is shown. Sorting the farms in this manner shows the relationship between size of business and labor income.

COWS PER FARM AND LABOR INCOME 568 New York Dairy Farms, 1968

\$ 3,080 6,080
7,230 9,920 10,400 11,800 14,850 20,410

#### RATES OF PRODUCTION

High rates of production of both animals and crops are very important to the success of a farm business. However, when high crop and animal yields are achieved without regard to costs, net income is reduced. In general, it pays to increase yields up to the point where the last unit of input (such as feed or fertilizer) is just paid for by the increase in output due to this last unit of input.

MEASURES OF RATES OF PRODUCTION

		Average Per	Farm
Item	My Farm	48 Western Plateau Farms, 1969	568 New York Farms, 1968
Pounds of milk sold per cow		12,700	12,300
Tons of hay per acre		3.1	2.8
Tons of corn silage per acre		17	14
Bushels of oats per acre		56	61.
Bushels of corn grain per acre		72	71

The relationship of production per cow to labor income on three sizes of farms is shown in the following table for 568 New York dairy farms in 1968.

MILK SOLD PER CCW AND LABOR INCOME 568 New York Dairy Farms, 1968

Pounds of Milk Sold Per Cow	Number of Farms	Number of Cows	Feed Bought Per Cow	Labor Income
Under 10,000	58	. 55	\$124	\$ 4,250
10,000 - 10,999	66	56	130	6,990
11,000 - 11,999	112	56	150	7,880
12,000 - 12,999	133	60	169	9,670
13,000 - 13,999	112	62	173	10,240
14,000 and over	87	58	198	11,560

#### LABOR EFFICIENCY

Labor is one of the limiting resources on many dairy farms. Efficient use of labor tends to add to the profitability of a farm business. The productivity of labor can be increased by use of modern equipment and buildings. However, one must be careful not to invest in equipment or buildings that add little to productivity in relation to their cost.

MEASURES OF LABOR EFFICIENCY

		Average Per l	Farm
Item	My Farm	48 Western Plateau Farms, 1969	568 New York Farms, 1968
Number of cows per man		28	28
Pounds of milk sold per man		363,700	340,600
Work units per man		336	330

The relationship between milk sold per man and labor income is illustrated in the table below.

MILK SOLD PER MAN AND LABOR INCOME 568 New York Dairy Farms, 1968

Pounds of Milk Sold Per Man	Number of Farms	Number of Cows	Lbs. Milk Per Cow	Labor Income Per Operator
Under 200,000	29	47	9,800	\$ 2,504
200,000 - 299,999	172	49	11,600	5,731
300,000 - 399,999	196	57	12,400	8,893
400,000 - 499,999	119	65	12,900	11,462
500,000 and over	52	87	13,400	16,627

#### COST CONTROL

Obtaining high production at reasonable cost is one of the keys to a profitable farm business. The exact level of production items to be used to obtain the greatest net return is difficult to determine. The averages presented here may help you find some of the weaknesses in the cost structure on your farm.

#### FEED COSTS

Feed bought is the largest single expense item on most dairy farms. The success of a dairy farm manager depends to a large degree on his ability to provide a good feeding program for his herd at reasonable cost. Because the feeding program includes both purchased and homegrown feed, and both roughage and concentrates, it is not easy to locate the weak spots in efforts to control feed costs. The items on this page all have a bearing on feed costs, and may be helpful in planning a more efficient feeding program.

#### SELECTED FACTORS RELATED TO FEED COSTS

	A COLUMN TO THE REAL PROPERTY OF THE PARTY OF	Average Pe	r Farm
		48 W. Plateau	568 New York
Item	My Farm	Farms, 1969	Farms, 1968
Purchased Feed			
Dairy feed bought	\$	\$9,429	\$9,459
Feed bought per cow	\$	\$ 175	\$ 163
Feed bought as % of milk receipts	<u></u>	24%	24%
Feed bought per cwt. of milk sold	\$	\$ 1.36	\$ 1.32
Roughage Harvested (hay equivalent)			
Hay (tons)		230 tons	234 tons
Hay crop silage ( tons ÷ 3)	****	11 tons	12 tons
Corn silage ( tons : 3)		208 tons	174 tons
Total tons hay equivalent		449 tons	420 tons
Tons hay equivalent per cow	**************************************	8.3 tons	7.2 tons
Other Considerations			
Total acres in crops per ccw	<u> </u>	2.5 acres	2.7 acres
Lime & fertilizer expense/cow	\$	\$ 40	\$ 30
Lime & fertilizer expense/crop acre	\$	\$ 16	\$ 11.
Heifer number as % of cow numbers	<u></u>	83%	69%

The above measures of harvested roughage consider only the quantity. Quality is also significant and has a bearing on purchased feed and milk production.

#### FARM POWER AND MACHINERY COSTS

On today's dairy farms, power and machinery costs account for a large part of the total costs. For this group of farms, power and machinery costs were 22 percent of the total farm expenses.

POWER AND MACHINERY COSTS\*

		Average Pe	er Farm
		48 W. Plateau	568 New York Farms, 1968
Item	My Farm	Farms, 1969	raims, 1900
Beginning inventory \$_		\$23,614	\$22,575
New machinery bought	<del></del>	<u>5,662</u>	6,178
Total	\$	\$29,276	\$28,753
End inventory \$_		\$25,886	\$25,247
Machinery sold		52	<u>168</u>
Total	\$	\$ <u>25,938</u>	\$25,415
Depreciation	\$	\$3,338	\$3,338
Depreciation	\$	\$ 3,338	\$3,338
Interest at 7% av. inventory		1,732	1,674
Gas and oil	****	1,043	1,136
Machinery and repairs		1,640	1,605
Bale ties		62	80
Milk hauling		430	435
Other machine hire		256	287
Auto expense (farm share)		198	247
Electricity (farm share)		502	601
TOTAL MACHINERY COSTS	\$	\$ 9,201	\$9,403
Gas tax refunds \$		\$ 82 308	\$ 81. 106
Income from machine work	<u> </u>	200	-187
Total	<u>-</u>	- <u>390</u>	\$9,216
NET MACHINERY COST	\$	\$ 8,811	٠±٠٠ و ۷۶ 
Net machinery cost per cow	\$	\$ 163	\$ 159
Net machinery cost per crop acr	e \$	\$ 65	\$ 59
Net machinery cost per man	\$	\$ 4,638	\$4,389
Net machinery cost/cwt. milk so	1a \$	\$ 1.27	\$ 1.29

<sup>\*</sup>Does not include insurance, housing, or farm labor on repairs.

#### LABOR AND MACHINERY COSTS

Most farm operators justify major machinery purchases as a way to save labor and increase productivity. How well labor and machinery are combined has an important bearing on farm profits.

LABOR AND POWER AND MACHINERY COSTS

		Average Per	
Item	My Farm	48 W. Plateau Farms, 1969	568 New York Farms, 1968
Value of operator's labor	\$	\$ 6,525	\$ 6,275
Hired labor		2,059	3,006
Unpaid family labor		<u> </u>	<u>818</u>
TOTAL LABOR COSTS	\$	\$ 9,559	\$10,099
Net power and machinery cost	***	8,811	9,216
TOTAL LABOR & MACHINERY COST	\$	\$18,370	\$19,315
Total per cow	\$	\$ 340	\$ 333
Total per crop acre	\$	\$ 136	\$ 125
Total per man	\$	\$ 9,668	\$ 9,198
Total per cwt. milk sold	\$	\$ 2.66	\$ 2.70

The following table shows the relationship of machinery costs per cow to labor income on the 568 dairy farms in 1968.

MACHINERY COST PER COW AND LABOR INCOME 568 New York Dairy Farms, 1968

Machinery Cost Per Cow	Number of Farms	Percent of Farms	Labor Income Per Operator
\$225 & over	33	6	\$ 4,800
\$200 - \$224	37	6	6,869
175 - 199	78	14	8,467
150 - 174	109	19	9,476
125 - 149	129	23	9,084
100 - 124	125	22	8,897
<b>75 -</b> 99	48	8	11,744
Less than \$75	9	2	8,490

#### Farm Business Chart

The chart on pages 16 and 17 is a tool for use in analyzing a dairy farm business. It is essentially a series of measuring sticks combined into one tool.

FARM	BUSINESS	CHART	FOR	FARM	MANAGEMI	$\overline{ ext{CNT}}$	COOPERATORS
	568	New Yo	ork 1	Dairy	Farms,*	196	58

Siz	e of Bu	ısiness	Ra	tes of Produ	iction	Labor	Efficiency
Man	No.	Pounds	Pounds		Tons	Cows	Pounds
equiv-	$\circ f$	milk	milk sold	Tons hay	corn silage	per	milk sold
alent	cows	sold	per cow	per acre	per acre	man	per man
4.0 2.8 2.4 2.2 2.0	124 86 69 59 53	1,545,800 1,075,600 868,800 736,800 651,500	15,300 14,000 13,400 13,000 12,600	4.6 3.6 3.2 3.0 2.8	21 19 17 16 15	44 37 34 31 29	554,600 464,800 417,600 379,300 346,000
1.8 1.6 1.4 1.3	48 43 40 36 28	587,300 524,100 472,600 408,900 301,500	12,100 11,600 11,100 10,400 8,900	2.6 2.4 2.2 2.0 1.6	14 13 12 10 8	27 24 23 21 18	322,100 298,700 271,500 245,700 195,800

<sup>\*</sup> These farms are considerably above the average for all farms in New York State. For example, the median number of cows for the 568 farms was 50 compared with 36 for all farms in the State.

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 568 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. For example, the figure 4.0 at the top of the column headed "Man equivalent" is the average man equivalent on the 10 percent of the farms with the most men. The other figures in each column are the average for the second 10 percent, third 10 percent, etc. The figure at the bottom of each column (1.1 for Man equivalent) is the average for the 10 percent of the farms which ranked lowest in that factor.

Each column of the chart is independent of the others. The farms which are in the top 10 percent for one factor would not necessarily be the same farms which make up the top 10 percent for any other factor.

This chart is used in analyzing a particular dairy business by drawing a line through the figure in each column which shows where the farm being analyzed stands for that factor. This helps identify the strengths and weaknesses. Summarize these and list them at the bottom of page 17.

#### Farm Business Chart contd.

The cost control factors are ranked from low to high. For cost control factors, the lowest cost is not necessarily the most profitable. In some cases, the "best" might be somewhere near the average. Many things affect the level of these costs, and these items must be taken into account when analyzing the factors.

FARM BUSINESS CHART FOR FARM MANAGEMENT COOPERATORS 568 New York Dairy Farms, 1968

	Cos	t Control	
Feed	% Feed is	Feed and	Machinery
bought	of milk	crop expense	cost
per cow	receipts	per cwt. milk	per cow
\$ 69	11%	\$1.01	\$ 87
103	16	1.27	106
125	20	1.44	117
145	22	1.55	129
160	24	1.65	140
173	26	1.74	150
185	28	1.84	<b>1</b> 62
201	30	1.93	177
218	31	2.07	195
262	37	2.38	241

Based on the analyzed results shown on the business chart, list below the strong and weak points of the business. Then identify the major problems.

STRONG POINTS:	WEAK POINTS:
MAJOR PROBLEMS:	

After identifying problems, consider alternative ways of solving each problem. Each alternative should be studied in detail. A budgeting form can be used for projecting the likely results of each alternative.

# FARM BUSINESS SUMMARY BY HERD SIZE 568 New York Dairy Farms, 1968

	My	Farms with less	40 to 54	55 to 69
Item	farm	than 40 cows	cow farms	cow farms
Capital Investment (End of Year Machinery and equipment Livestock Feed and supplies Land and buildings TOTAL INVESTMENT	\$ \$	\$15,049 15,016 3,607 29,274 \$62,946	\$20,490 21,633 5,835 40,289 \$88,247	\$ 26,851 28,442 7,938 49,013 \$112,244
Receipts Milk sales Livestock sold Crop sales Miscellaneous receipts Total Cash Receipts Increase in inventory TOTAL FARM RECEIPTS	\$ \$ \$	\$21,733 2,234 243 719 \$24,929 4,189 \$29,118	\$30,939 3,035 321 1,070 \$35,365 6,122 \$41,487	\$ 40,843 4,241 356 1,272 \$ 46,712 8,946 \$ 55,658
Expenses  Hired labor Dairy feed Other feed Machine hire Machinery repair Auto expense (farm share) Gas and oil Breeding fees Veterinary and medicine Other livestock expense Lime and fertilizer Seeds and plants Spray and other crop expense Land, bldg., fence repair Taxes and insurance Elec. and tel. (farm share) Miscellaneous expenses Total Cash Operating Exp. New machinery New real estate Purchased livestock Unpaid family labor TOTAL FARM EXPENSES	\$	\$ 558 5,626 186 153 829 184 661 256 345 930 713 231 195 392 1,047 457 369 \$13,132 3,227 2,007 1,045 831 \$20,242	\$ 1,587 7,578 275 188 1,282 250 941 335 534 1,267 1,310 386 337 621 1,450 617 571 \$19,529 4,921 2,544 1,344 898 \$29,236	\$ 2,916 10,070 141 328 1,583 246 1,158 419 693 1,729 1,803 487 440 742 1,786 726 768 \$26,035 6,683 2,961 1,967 823 \$38,469
Financial Summary  Total Farm Receipts  Total Farm Expenses  Farm Income  Interest on av. capital @ 5%  Labor Income per Farm  Number of operators  LABOR INCOME PER OPERATOR	\$\$ \$\$	\$29,118 20,242 \$ 8,876 3,043 \$ 5,833 141 \$ 5,751	\$41,487 29,236 \$12,251 4,259 \$ 7,992 218 \$ 7,075	\$ 55,658

# FARM BUSINESS SUMMARY BY HERD SIZE 568 New York Dairy Farms, 1968

T+ om	My	70 to 84	85 to 99	Farms with 100
Item	farm	cow farms	cow farms	or more cows
Capital Investment (End of Year Machinery and equipment Livestock Feed and supplies Land and buildings TOTAL INVESTMENT	\$ \$	\$ 36,325 36,180 11,724 68,346 \$152,575	\$ 38,176 42,525 12,322 93,203 \$186,226	\$ 47,617 60,363 17,389 115,641 \$241,010
Receipts Milk sales Livestock sold Crop sales Miscellaneous receipts Total Cash Receipts Increase in inventory TOTAL FARM RECEIPTS	\$\$	\$ 53,053 4,433 339 1,618 \$ 59,443 12,194 \$ 71,637	\$ 65,737 6,466 901 1,844 \$ 74,948 10,445 \$ 85,393	\$ 85,278 8,877 846 3,092 \$ 98,093 19,346 \$117,439
Expenses Hired labor Dairy feed Other feed Machine hire Machinery repair Auto expense (farm share) Gas and oil Breeding fees Veterinary and medicine Other livestock expense Lime and fertilizer Seeds and plants Spray and other crop expense Land, bldg., fence repair Taxes and insurance Elec. and tel. (farm share) Miscellaneous expenses Total Cash Operating Exp. New machinery New real estate Purchased livestock Unpaid family labor TOTAL FARM EXPENSES	\$	\$ 4,868 12,376 238 252 2,078 341 1,413 537 827 2,241 2,282 601 646 1,109 2,527 988 1,138 \$ 34,462 9,464 4,671 1,779 358 \$ 50,734	\$ 6,626 14,964 380 463 2,758 318 1,610 647 1,149 3,163 3,144 733 634 1,410 3,248 1,167 1,678 \$ 44,092 7,850 6,097 2,737 644 \$ 61,420	\$ 10,760 19,020 558 858 3,697 268 2,497 701 1,260 4,302 4,603 973 1,031 1,680 4,030 1,457 1,953 \$ 59,648 13,405 7,017 4,853 1,050 \$ 85,973
Financial Summary  Total Farm Receipts  Total Farm Expenses  Farm Income  Interest on av. capital @ 5%  Labor Income per Farm  Number of operators  LABOR INCOME PER OPERATOR	\$ \$ \$ \$	\$ 71,637 50,734 \$ 20,903 7,324 \$ 13,579 69 \$ 10,233	\$ 85,393 61,420 \$ 23,973 9,050 \$ 14,923 45 \$ 11,275	\$117,439 85,973 \$ 31,466 11,567 \$ 19,899 66 \$ 15,678

# SELECTED BUSINESS FACTORS BY HERD SIZE 568 New York Dairy Farms, 1968

Item	My farm	Farms with less than 40 cows	40 to 54 cow farms	55 to 69 cow farms
Number of farms		139	193	98
Size of Business			1.0	4.5
Number of cows	·····	_ 33	46	61
Pounds of milk sold		398,700	563,800	745,500
Crop acres		- - 1,4	126 1.8	156 2.1
Man equivalent Total work units		394	557	724
Rates of Production				
Milk sold per cow		12,100	12,300	12,200
Tons hay per acre		2.5	2.6	2.8
Tons corn silage per acre		74	14	1 <u>,1</u> 4
Bushels of oats per acre		- 5 <sup>4</sup>	55	63
Labor Efficiency		O.L.	06	20
Cows per man		24 284 <b>,</b> 800	. 26 313,200	29
Pounds milk sold per man Work units per man		- 204,000 281	309	355,000 345
Crop acres per man		- 63 - 63	70	74
Feed Costs				
Feed purchased per cow	\$	_ \$170	\$165	\$1.65
Crop expense per cow	\$	,\$35	\$44	\$45
Feed & crop expense per cow	\$	_ \$205	\$209	\$210
Feed cost per cwt. milk	\$	_ \$1.41	\$1.34	\$1.35
Feed & crop expense/cwt. milk % Feed is of milk receipts	Ψ	\$1.70 _% 26%	\$1.70 24%	\$1.72 25%
Hay equivalent per cow		_%	7.1	7.3
Crop acres per cow	<del></del>	- 2.7	2.7	2.6
Fertilizer & lime/crop acre	\$	\$8	\$10	\$12
Machinery Costs			1	10
Total machinery costs	\$	- \$4,930	\$7,017	\$8,771
Machinery cost per cow	\$ <u></u>	\$149	\$153	\$144
Machinery cost per man Machinery cost per cwt. milk	ф	_ \$3,521 \$1.24	\$3,898 \$1.24	\$4,177 \$1.18
Machinery cost per cwc. milk	\$	\$56	\$56	\$56
Capital Efficiency				,
Investment per man	\$	_ \$44,961	\$49,026	\$53,450
Investment per cow	\$	\$1,907	\$1,918	\$1,840
Investment per cwt. milk sold	\$	\$16 	\$16	\$1.5
Land and buildings per cow	\$	- \$887 -	\$876	\$803
Machinery investment per cow Return on investment	Φ	\$456 _% 5.6%	\$445 7.0%	\$440 9.4%
Other				
Price per cwt. milk sold	\$	\$5.45	\$5.49	\$5.48
Acres hay and hay crop silage		60	77	92
· · · · · · · · · · · · · · · · · · ·		14	20	37

# SELECTED BUSINESS FACTORS BY HERD SIZE 568 New York Dairy Farms, 1968

Th	My	70 to 84	85 to 99	
Item	farm	cow farms	cow farms	or more cows
Number of farms		52	34	52
Size of Business				_
Number of cows		. 76	_92	126
Pounds of milk sold		966,400	1,177,800	1,513,000
Crop acres		199_	236	320
Man equivalent	<del></del>	2.5	2.9	3.7
Total work units		. 905	1,084	1,459
Rates of Production			- 0	
Milk sold per cow		12,700	12,800	12,000
Tons hay per acre		_ 2.8	3.2	2.9
Tons corn silage per acre		14	13	15
Bushels oats per acre		61	62	69
Labor Efficiency				
Cows per man		30	32	34
Pounds milk sold per man		386,600	406,100	408,900
Work units per man		362	37 <sup>1</sup> 4	394
Crop acres per man		80	81	86
Feed Costs				•
Feed purchased per cow	\$	\$163	<b>\$1</b> 63	<b>\$1</b> 51
Crop expense per cow	\$	\$46	\$49	\$52
Feed & crop expense per cow	\$	\$209	\$212	\$203
Feed cost per cwt. milk	\$	\$1.28	\$1.27	\$1.26
Feed & crop expense/cwt. milk	\$	\$1.65	<b>\$1.</b> 65	\$1.69 <sub>,</sub>
% Feed is of milk receipts		<u>%</u> 23%	23%	
Hay equivalent per cow	· ·	7.5	7.0	7.6
Crop acres per cow		2.6	2.6	2.5
Fertilizer & lime/crop acre	\$	\$11	\$13	\$14
Machinery Costs				
Total machinery costs	\$	\$12,215	\$14,034	\$18,290
Machinery costs per cow	\$	\$161	, \$ <u>1</u> 53	\$145
Machinery cost per man	\$	\$4,886	\$4,839	\$4,943
Machinery cost per cwt. milk	\$	\$1.26	\$1.19	\$1.21
Machinery cost per crop acre	\$	\$61	\$59	\$57
Capital Efficiency			1.21	14 0
Investment per man	\$	\$61,030	\$64,216	\$65,138
Investment per cow	\$	\$2,008	\$2,024	\$1,973
Investment per cwt. milk sold	\$	\$16	\$1.6	, <b>\$</b> 1.6
Land and buildings per cow	\$	\$899	\$1,013	\$918
Machinery investment per cow	\$	\$478	\$415	\$378
Return on investment		% 9.0%	13.4%	10.6%
Other		, .	1	L /1
Price per cwt. milk sold	\$	\$5.49	\$5.58	\$5.64 
Acres hay and hay crop silage		107	120	157
Acres corn silage		<u>5</u> 8	62	92

#### Considering a Change in the Dairy Business

Des	scribe change:	·				
	t possible alternaternaternatives)				ksheets to a	nalyze these
I.	Basic nature of pr			- 1		
		Pr	esent	Change	Future	e with change
	Number of cows			·	_	
	Number of youngsto	ck				
	Production per cow					<u> </u>
	Labor force (man e	equiv.)		<del> </del>		
II.	Estimated forage r	equirements	and produc	tion:		
	No. of cows	x t	ons hay equ	ivalent =		tons
	No. of youngstock	x	tons h	nay equiv./he	ad =	tons
		tota	l hay equiv	. requiremen	it	tons
	Allocate total hay	r equivalent	requiremen	it to hav and	silage prodi	 uction:
	Total hay equiv. r	_		_	tons	
	Tons hay equiv. as	silage	x 3 = _	tons s	ilage	.:
	Estimate needed cr	op acres an	d changes i	from present:		
	Future crop	Proposed Production	Estimated Yield		Change in (list as pl	n acres us or minus)
	Hay					
	Hay crop silage				***************************************	
	Corn silage	<del></del>			<del></del>	
	Other forage	Aug		···		<u></u>
	Grain			<u> </u>	<del> </del>	·
יזרים	Additional forms	l mlammina a	tona ond -is	ni nt and	•	

#### III. Additional forward planning steps and pointers

- 1. List new capital items associated with the change including land, buildings, machinery and cattle. Estimate their cost.
- 2. Estimate changes in receipts and expenses (Part IV) considering all input and production items that are affected by the change under consideration. Adjust present figures if anticipated price changes are used in the budget.
- 3. When analyzing the effects of the proposed change, fulfillment of non-monetary goals may be considered.
- 4. More than one alternative change should be considered.

IV. Estimating changes in receipts and expenses

		Present	Net change (plus or minus)	Future with change
Α.	Receipts			
	Milk sales, gross	\$	\$	\$
	Livestock sales		*	·
	Crop sales		<del></del>	
	Miscellaneous receipts			
	Total Cash Receipts	\$	\$	\$
	Increase in inventory			
	Total Farm Receipts	\$	\$	\$
В.	Expenses Hired labor	\$	\$	\$
	Feed bought		<del></del> . <del></del>	
	Machine hire			
	Machinery repairs			
	Auto expense (farm share)			-
٠.	Gasoline and oil			
	Breeding fees			
	Veterinary and medicine			
÷	Other livestock expense			
	Lime and fertilizer	· .		
	Seeds and plants			
*	Spray, other crop expense			
	Land, building, fence expense	<del></del>	- Addition of the Association of	···
	Taxes, insurance			
	Electricity, telephone (farm share)			
	Miscellaneous	·	<del></del>	
	Total Cash Operating Exp.	\$	\$	\$
	New machinery and real estate			
	Livestock purchases	·		
	Unpaid family labor	·	·	
	Decrease in inventory			
	Total Farm Expenses	\$	\$	\$
C.	Financial Summary Capital Investment	¢	· ·	\$
	Total Farm Receipts	ΰ <u></u>	÷	\$
	Total Farm Expenses			
	Farm Income	\$		\$
	Interest on Capital	·		
	TAROR TIMOME	ф		φ.

#### Selected Competitive Dairy Areas

A good manager aims to know how his business stands in relation to his competition both at home and in other dairy areas. The table below presents data from four states. These data were taken from reports on farm business management projects similar to the ones in New York. Some measures have been adjusted so that they are comparable for the four states.

1968 DAIRY FARM BUSINESS SUMMARY DATA

Selected Factors	New York	Southern Michigan	Pennsylvania	Ohio
Number of farms	568	331	76	65
Crop acres Man equivalent Number of heifers Number of cows	155	275	171	178
	2.1	2.2	2.4	1.7
	40	NA	36	NA
	58	54	55	47
Lbs. milk sold/ farm Lbs. milk sold/ man Lbs. milk sold/ cow Milk sales/ cow	715,200	665,100	630,000	592,560
	340,600	302,320	262,500	348,560
	12,300	12,320	11,450	12,600
	\$681	\$706	\$674	\$643
Av. price/ cwt. milk	\$5•52	\$5•73	\$5.88	\$5.10
Purchased feed/ cow	<b>\$163</b>	\$93	\$158	\$109
Taxes/ cow	<b>\$</b> 20	\$18	\$16	\$28
Capital Investment	•		÷	
Land & buildings Machinery & equipment Livestock Feed & supplies	<b>\$51,</b> 730	\$94,400	\$47,100	\$56,620
	<b>\$25,</b> 250	\$22,500	\$21,250	\$16,870
	<b>\$27,</b> 320	\$21,900	\$26,850	\$18,140
	<b>\$</b> 7,640	\$11,900	\$10,540	\$ 7,720
Investment/ man Investment/ cow	<b>\$53,</b> 300	\$68,500	\$44,058	\$58,440
	<b>\$ 1,</b> 930	\$ 2,790	\$ 1,922	\$ 2,110
	· 40 (40 (40 Hz			
Financial Summary	•			
Total farm receipts Total farm expenses	\$53,247	\$49,553	\$46,326	\$40,328
	\$37,717	\$33,735	\$33,070	\$26,068
Farm income	<b>\$15,</b> 530	\$15,818	\$13,256	\$14,260
Interest at 5%	<b>\$ 5,3</b> 93	\$ 7,535	\$ 5,287	\$ 4,968
Labor income/ farm	\$10,137	\$ 8,283	\$ 7,969	\$ 9,292
Labor income/ operator	\$ 8,724	\$ 7,019	\$ 7,244	\$ 8,447

#### FARM BUSINESS SUMMARY

#### 5 Allegany County Dairy Farms - 1969

Capital Investment	- t- t-	Receipts	
<u>1/1/69</u>	<u>1/1/70</u>	Milk sales	\$ 38,942
Equipment \$ 31,880	\$ 33,740	Livestock sold	4,203
Livestock 26,745	28,680	Crop sales	
Feed and supplies 5,976		Miscellaneous receipts	1,532
Land and buildings 44,050 TOTAL INVESTMENT \$108,651	44,810 \$114,041	Total Cash Receipts	\$ 45,425
. , , ,	\$114°04T	Increase in inventory	5,390
Expenses	•	·	
Hired labor	\$ 2,832	TOTAL FARM RECEIPTS	\$ 50,815.
Dairy feed Other feed	8,724	Financial Summary	:
Machine hire	19	Total Farm Receipts	\$ 50,815
Machine expense	138	Total Farm Expenses	32,628
Auto expense	1,4 <b>33</b> 258	Farm Income	
Gas & oil	1,069	Interest	\$ 18,187
Breeding fees	605		7,794
Veterinary & medicine	925	LABOR INCOME per farm	\$ 10,393
Other livestock	1,294	Warner of the state of the stat	
Lime & fertilizer	1,891	Number of operators	h = 1,00
Seeds and plants	755	LABOR INCOME per operator	\$ 7,423
Spray, other crop	547	Business Factors	
Building expense Taxes, insurance	984	######################################	
Electricity, telephone	1,785	Number of cows	55
Miscellaneous expense	639 711	Number of heifers	46
_	termina management	Man equivalent Total work units	2.1
Total Cash Expenses	\$ 24,609	Lbs. of milk sold	673 681,800
New machinery	A ( a(0	nob. Of milk bold	001,000
Real estate	\$ 6,368	Lbs. milk sold per cow	12,400
Livestock purchases	998 233	Lbs. of milk sold per man	324,700
Unpaid labor	420	Cows per man	26
TOTAL FARM EXPENSES			
TOTAL LAUM EVLENDED	\$ 32,628	Percent feed is of milk receipts	. 22%
•		Feed bought per cow	\$ 159
		Hay equiv. per cow	9.4
		Machinery cost per cow	\$ 186
		Lime & fertilizer per crop acre Avg. milk price	\$ 12.70 \$ 5.71
:		*** 8 * metric for the	\$ 5.71

		Yield Per		
Crop	Acres Per Farm	Acre	100	Total Crop
Hay and hay crop				$\sim c_{\pm} / 5 f_{\pm}^{-8}$
silage	78	4.1 t.		316 t.
Corn silage	32	18.6 t.		596 t.
Corn grain	6	85 bu.		512 bu.
Oats	30	60 bu.		1794 bu.
Other crops	3			
Total acres of o	erops 149			•

#### FARM BUSINESS SUMMARY

#### 13 Cattaraugus County Dairy Farms - 1969

Capital Investment 1/1/69	1/1/70	Receipts	h oć ooo
	\$ 24,91.9	Milk sales Livestock sold	\$ 36,923 6,517
Livestock 24,653		Crop sales	110
Feed and supplies 6,097		Miscellaneous receipts	727
Land and buildings 40,954		~	\$ 44,277
TOTAL INVESTMENT \$ 93,955	\$104,104	Total Cash Receipts	
T.		Increase in inventory	10,149
Expenses		TOTAL FARM RECEIPTS	\$ 54,426
Hired labor	\$ 2,191		
Dairy feed	8,829	Financial Summary	
Other feed	374	Total Farm Receipts	\$ 54,426
Machine hire	241	Total Farm Expenses	40,658
Machine expense	1,710	-	, ,
Auto expense	224	Farm Income	\$ 13,768
Gas & oil Breeding fees	986	Interest	<u>6,923</u>
Veterinary & medicine	450	LABOR INCOME per farm	\$ 6 <b>,</b> 836
Other livestock	771 1,648	-	
Lime & fertilizer	2,390	Number of operators	16
Seeds and plants	2,390 562	LABOR INCOME per operator	\$ 4,990
Spray, other crop	58 <u>1</u>		
Building expense	883	Business Factors	
Taxes, insurance	1,686	Number of cows	52
Electricity, telephone	587	Number of heifers	48
Miscellaneous expense	930	Man equivalent	2.0
-	**************************************	Total work units	607
Total Cash Expenses	\$ 25,023	Lbs. of milk sold	663,400
New machinery	\$ 5.537	- · · · · · · · · · · · · · · · · · · ·	<b> </b>
Real estate	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Lbs. milk sold per cow	1.2,800
Livestock purchases	5,113 3,785	Lbs. of milk sold per man	331,700
Unpaid labor	1,200	Cows per man	26
<del>-</del>			
TOTAL FARM EXPENSES	\$ 40,658	Percent feed is of milk receipts	24%
		Feed bought per cow	\$ 170
		Hay equiv. per cow	8.3
		Machinery cost per cow	\$ 162
		Lime & fertilizer per crop acre	\$ 162 \$ 20.60 \$ 5.57
•	-	Avg. milk price	\$ 5.57

		Yield Per	
Crop	Acres Per Farm	Acre	Total Crop
Hay and hay crop	•		
silage	86	2.8 t.	240 t.
Corn silage	33	17.4 t.	575 t.
Corn grain	7	59 bu.	415 bu.
Oats	6	52 bu.	310 bu.
Other crops	5		
Total acres of	crops 137	•	
•			and the second second

#### FARM BUSINESS SUMMARY

#### 22 Chautauqua County Dairy Farms - 1969

Capital Investment	3/3/00	Receipts	
1/1/69		Milk sales	\$ 38,958
	7 \$ 24,995	Livestock sold	5,030
Livestock 27,143		Crop sales	1,368
Feed and supplies 6,746		Miscellaneous receipts	1,425
Land and buildings 43,699	48,948	Total Cash Receipts	\$ 46,781
TOTAL INVESTMENT \$101,001	\$110,461	rocar cash recerbes	φ 40, (О1
Term on a su	•	Increase in inventory	9,460
Expenses		TOTAL FARM RECEIPTS	\$ 56,241
Hired labor	\$ 1,589		Ψ )09=11
Dairy feed Other feed	9,718	Financial Summary	
Machine hire	375	Total Farm Receipts	\$ 56,241
Machine expense	278 1 <b>,</b> 505	Total Farm Expenses	38,895
Auto expense	165	Farm Income	
Gas & oil	994	Interest	\$ 17,346
Breeding fees	465		7,404
Veterinary & medicine	927	LABOR INCOME per farm	\$ 9,942
Other livestock	1,895	·	
Lime & fertilizer	1,998	Number of operators	25
Seeds and plants	495	LABOR INCOME per operator	\$ 9,307
Spray, other crop	440	December 2017	
Building expense	711	Business Factors	
Taxes, insurance	1,648	Number of cows	53
Electricity, telephone	643	Number of heifers	42
Miscellaneous expense	<u>636</u> -	Man equivalent	1.8
Total Cash Expenses	\$ 24,482	Total work units	613
		Lbs. of milk sold	688,300
New machinery	\$ 5,150	*** • • • • • • • • • • • • • • • • • •	
Real estate	5,645	Lbs. milk sold per cow	13,000
Livestock purchases	2,541	Lbs. of milk sold per man	397,500
Unpaid labor	1,077	Cows per man	, 29
TOTAL FARM EXPENSES	\$ 38,895	Percent feed is of milk receipts	25%
•	- , , , ,	Feed bought per cow	\$ 183
		Hay equiv. per cow	7.9
		Machinery cost per cow	\$ 177
		Lime & fertilizer per crop acre	\$ 15.98
	-	Avg. milk price	\$ 5.66
		_	, ,

		Yield Per				
Crop	Acres Per Farm	Acre	Total Crop			
Hay and hay crop						
silage	68	3.0 t.	203 t.			
Corn silage	. 38	17.1 t.	649 t.			
Corn grain	7	77 bu.	541 bu.			
Oats	7	56 bu <b>.</b>	391 bu.			
Other crops	5	~ **	Mo tos			
Total acres of	crops 125					

# FARM BUSINESS SUMMARY 8 Erie County Dairy Farms - 1969

Capital Investment 1/1/69	1/1/70	Receipts	\$ 42,754
	\$ 25,002	Milk sales Livestock sold	3,618
Livestock 28,053		Crop sales	550
Feed and supplies 7,097	•	Miscellaneous receipts	1,838
Land and buildings 43,081		Total Cash Receipts	\$ 48,760
TOTAL INVESTMENT \$ 99,436	\$109,520		
• • •		Increase in inventory	10,084
Expenses		TOTAL FARM RECEIPTS	\$ 58,844
Hired labor	\$ 2,652		( -0 01)
Dairy feed	10,048	Financial Summary	\$ 58,844
Other feed	526	Total Farm Receipts	43,455
Machine hire	289	Total Farm Expenses	\$ 15,389
Machine expense	2,027	<del>-</del>	7,313
Auto expense	210	Farm Income Interest	<u> </u>
Gas & oil	1,255	Interest	
Breeding fees	461. 944	LADOR INCOME per farm	\$ 8,076
Veterinary & medicine Other livestock	2,941		3.0
Lime & fertilizer	2,315	Number of operators	10
Seeds and plants	468	LABOR INCOME per operator	\$ 6,504
Spray, other crop	761.	the state of the state of	
Building expense	961	Business Factors	
Taxes, insurance	1,514	Number of cows	61.
Electricity, telephone	578	Number of heifers	45
Miscellaneous expense	1,534	Man equivalent	1.9
_	\$ 29,484	Total work units	737
Total Cash Expenses	Φ 49,404	Lbs. of milk sold	749,400
New machinery	\$ 6,832	Lbs. milk sold per cow	12,300
Real estate	3,911	Lbs. of milk sold per man	394,400
Livestock purchases	2,553	Cows per man	32
Unpaid labor	<u>675</u>	COMP Fer ment	J-
TOTAL FARM EXPENSES	\$ 43,455	Percent feed is of milk receipts	24%
_ : : : : : : : : : : : : : : : : : : :	, -,	Feed bought per cow	\$ 165
		Hay equiv. per cow	7.8
		Machinery cost per cow	\$ 147
		Lime & fertilizer per crop acre	\$ 15.25
	•	Avg. milk price	\$ 5.70

		Yield Per	
Crop	Acres Per Farm	Acre	Total Crop
Hay Corn silage Oats Other crops Total acres o	83 43 7 <u>19</u> f crops 152	3.2 t. 14.8 t. 57 bu.	262 t. 638 t. 400 bu.