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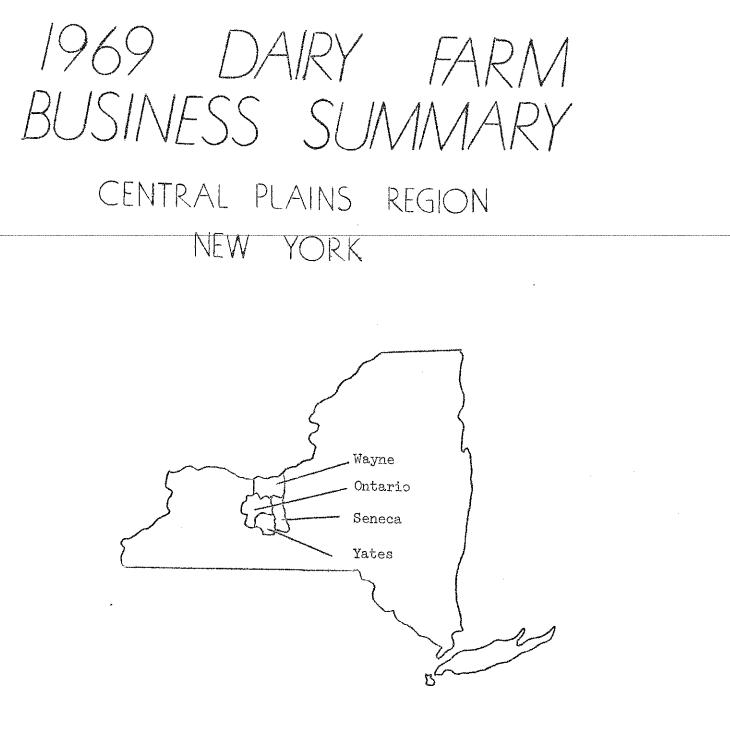
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# 1969 DAIRY FARM BUSINESS SUMMARY Central Plains Region, New York

This report is a summary of the 1969 farm business records of 30 dairy farms in the Central Plains Region of New York State. This region includes Ontario, Wayne, Seneca and Yates Counties. This project is sponsored by the Cooperative Extension Associations in the four counties in cooperation with the Department of Agricultural Economics at Cornell University. There are approximately 40 counties in New York State participating in similar projects.

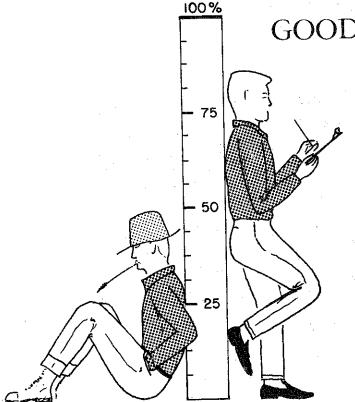
The primary objective of these business management projects is to help and encourage farmers to do a better job of keeping and using records. Sound management decisions are based on good records and the ability to use them. This report has been prepared in workbook form for use in a systematic study of individual farm business operations. It includes 1968 data from 568 New York dairy farms and 1969 data from the 30 Central Plains Region dairy farms to be used for comparison.

The summary and analysis presented in this workbook should be useful to all dairy farmers, teachers of agriculture, farm credit representatives, and others connected with farming in the Central Plains area.

The data presented here represents an average of the farm businesses included in the farm management projects. The data does not represent an average of all the dairy farms in the region or state.

7< \* \* Seven percent was used as the interest rate charged on the average \* capital for all 1969 records. × In previous years, 5% was used. In- \* terest charged represents the "opportunity cost" of capital or the \* \* \* rate of return that farm capital could earn if invested in its best \* × alternative use. The seven percent interest rate has been used in \* \* the comparisons on pages 9 and 14. Tables containing only 1968 \* \* data have interest calculated at five percent. ж \* \* 

This summary was prepared by Stuart F. Smith, Department of Agricultural Economics, New York State College of Agriculture, in cooperation with Larry N. Davis, Cooperative Extension Specialist in the Central Plains Region.



# GOOD MANAGEMENT IS BASIC

How do you measure up?

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

Steps in making a management decision :

1. Locate the trouble spot (problem)

2. What is your objective? (goal)

3. Size up what you have to work with (resources)

4. Look for various ways to solve the problem (alternatives)

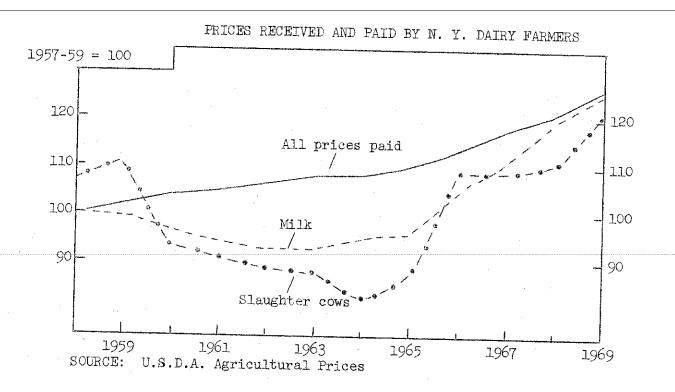
5. Consider probable results of each way (consequences)

6. Compare the expected results (evaluate)

7. Select way best suited to your situation (decision)

8. Put the decision into operation (action)

This workbook can help you!



3

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.

Year	Milk (cwt.)	Slaughter cows (cwt.)	Dairy cows (head)	Dairy ration (ton)	Wages per month with house	Prices paid by New York dairymen
1960	\$4.31	\$15.00	\$278	\$71	\$210	104
1961	4.21	14.60	260	72	213	105
1962	4.14	14.26	245	74	218	106
1963	4.10	14.01	234	76	221	108
1964	4.21	13.17	237	74	227	108
1965	4.27	13.91	238	76	235	110
1966	4.79	17.35	269	80	258	113
1967	5.07	17.33	303	80	291	118
1968	5.43	17.58	319	74	306	121
1969*	5.67	19.42	336	74	316	126

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

\* 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 investments, 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 Central Plains Region dairy farms.

	Average of		<u>30 Central Pl</u>	ains Farms Rang	s, 1969 ge
	568 New York Farms, 1968	My Farm	Average	Low	High
Labor: Man Equivalent	2.1		2.3	1.2	5.8
Full-time hired men Hired men part of yea Family Help Partnership	r	·	(12 farms) (17 farms) (24 farms) ( 4 farms)		
<u>Livestock</u> : (Ave. No. Cows Heifers	) 58 40		63 43	29 0	120 102
<u>Crops</u> : (Acres Grown) Hay Hay Crop Silage** Corn for silage Corn for grain Oats for grain Wheat Other Crops	86 (557) 27 (84) 41 (515) 30 (149) 25 (275) N.A. <u>N.A.</u>		97 (25)* 25 (2)* 43 (26)* 43 (25)* 28 (17)* 43 (18)* <u>33</u> 259 (26)	0 0 0 	230 35 110 176 68 118 
Total Crop Acres	s 155 (560)				

# FARM ORGANIZATION

\* Average for farms reporting only. Sum of crop acres will not equal tota Number of farms that reported each crop is in parenthesis.

\*\* On some farms, hay crop silage was reported as part of the hay crop.

# 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 end-of-year farm inventory is used as the measure of capital investment.

	Average of		30 Centra Farms	al Plains , 1969
Item	568 New York Farms, 1968	My Farm	Average Per Farm	Percent of Total
Machinery and Equipment	\$ 25,247	\$	\$ 31,089	20
Cattle	27,317	·	31,509	21
Other Livestock			196	
eed and Supplies	7,638		11,312	7
and and Buildings	51,733		78,818	<u>    52</u>
Total Investment	\$111,935	\$	\$152,924	100

FARM INVENTORY VALUES, End of Year

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.

Item	Average of 568 New York Farms, 1968	My Farm	Average of 30 Central Plains Farms, 1969
Machinery and Equipment per cow	\$ 435	\$	\$ 493
Land and Buildings per cow	\$ 890	\$	\$ 1,251
Total Investment per cow	\$ 1,930	\$	\$ 2,427
Total Investment per man	\$ <b>53</b> ,300	\$	\$66,489
Total Investment per crop acre	\$ 722	\$	\$ 590
Real Estate Investment/crop acre	\$ 334	\$	\$ 304
Capital Turnover*	2.5 years	yrs	s. 2.6 years

INVESTMENT ANALYSIS

\* Calculated by dividing the total year end investment by the total <u>cash</u> 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 RECELPTS						
Item	Average of 568 New York Farms, 1968	My Farm	30 Centra Farms, Average Per Farm	1969 Percent		
Milk Sales	\$39,477	\$	\$45,543	78		
Livestock Sold	3,915		4,691	8		
Crop Sales	393	•••	5,344	9		
Miscellaneous*	1,301		2,534	_5		
TOTAL CASH RECEIPTS	\$45,086	\$	\$58,112	100		
Increase in Inventory	8,161	an the grant of the program of the set	9,941			
TOTAL FARM RECEIPTS	\$53,247	\$	\$68,053			

FARM RECEIPTS

\* 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 net increase in inventory on these farms was made up of the following: Equipment + \$1,944, Livestock + \$2,985, Feed and Supplies - \$16, Land and Buildings + \$5,028. On some farms, the increase in inventory may have been more than could actually be justified.

SELECTED	INCOME	FACTORS

Item	Average of 568 New York Farms, 1968	30 Central Plains Farms, 1969
Average price per cwt. of milk sold	\$ 5.52	\$ \$ 5.73
Milk sales per cow	\$ 681	\$ \$ 723
Total cash receipts per man	\$21,470	\$ \$25,266

#### 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 you're doing.

Item	Average of 568 New York Farms, 1968	My Farm	30 Central Plain Farms, 1969 Average Percer Per Farm Of Tot	nt.
Hired Labor	\$ 3,006	\$	.\$ 5,626 17	
Dairy Feed Bought	9,459		7,390 23	
Other Feed Bought (includes hay)	259		220	
Machine Hire	287		518 1	
Truck, Tractor, Machinery Expense	1,605		2,590 8	
Auto Expense (farm share)	247	 	210	
Gasoline and Oil	1,136	· · · · · · · · · · · · · · · · · · ·	1,817 5	• •
Breeding Fees	401		554 2	
Veterinary and Medicine	645		613 2	
Other dairy, Livestock Expense	1,745		2,127 7	
Lime and Fertilizer	1,732		3,191 10	••
Seeds and Plants	460	مەربىيە بىرىمىيە بىرىمىيە بىرىمىيە	1,199 4	
Spray, other crop expenses	430		594 2	• *
Building, Fence Expense	775		. 940 3	
Taxes, Insurance	1,851		2,512 8	
Electricity, Telephone (farm sha	re) 741		890 3	
Miscellaneous	818	_,	1,614 5	-
TOTAL CASH OPERATING EXPENSES	\$25,597	\$	\$32,605 100	
New Machinery	6,178		6,809	
New Buildings, Improvements	3,301		5,336	
Livestock Purchased	1,823	• •	3,211	
Unpaid Family Labor	818		790	
Decrease in Inventory	<b></b>		، ، . بین بین ایس . مسیر ایس ایس .	
TOTAL FARM EXPENSES	\$37,717	\$	\$48,751	

FARM EXPENSES

# 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."

Items	Average of 568 New York Farms, 1968	My Farm	Average of 30 Central Plains Farms, 1969
Total Cash Receipts	\$45,086	\$	\$58,112
Total Cash Operating Expenses	25,597		- 32,605
FARM CASH OPERATING INCOME	\$19,489	\$	\$25,507
Less: Family Living Expense*	6,275	••	- 6,120
Amount available for debt pay- ments and purchase of capital			
items	\$13,214	\$	\$19,387

# FARM CASH FLOW AND REPAYMENT ABILITY

Estimated <u>cash</u> living expenses @ \$5,400 per operator. The 568 New York farms averaged 1.2 operators per farm and the 30 Central Plains farms average 1.1 operators per farm.

"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. <u>Labor Income</u> is a much better measure of what the business did for you during the year.

1	LABOR INCOME		میں اور میں میں اور میں میں میں میں میں میں میں میں اور
Item	Average of 568 New York Farms, 1968	My Farm	Average of 30 Central Plains Farms, 1969
Average Capital Investment	\$107,854	\$	\$147,954
TOTAL FARM RECEIPTS	\$ 53,247	\$	\$ 68,053
TOTAL FARM EXPENSES	- 37,717		- 48,751
FARM INCOME	\$ 15,530	\$	\$ 19,302
Interest on Capital @ 7%	- 7,550		- 10,357
LABOR INCOME per farm	\$ 7,980	\$	\$ 8,945
Number of operators	660		34
LABOR INCOME per operator	\$ 6,868	\$	\$ 7,893

"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. <u>Labor Income is the measure most commonly used when studying or comparing farm</u> businesses.

Interest payments and payments on debts are not included in the farm expenses. To make all farms comparable, a seven percent interest charge on the average capital investment (average of beginning and end inventories) is deducted 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 \$1000 or more per year.

RETURN ON INVESTMENT				
Item	Average of 568 New York Farms, 1968	My Farm	Average of 30 Central Plains Farms, 1969	
Farm Income	\$ 15,530	\$	\$ 19,302	
Value of Operator's Labor*	- 6,275	**	- 6,120	
- Return on Investment	\$ 9,255	\$	\$ 13,182	
Rate of Return on Capital	8.6%		8.6%	

\$5,400 per year. There were 34 operators on the 30 Central Plains 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

		Average Per Farm		
Item	My Farm	30 Central Plains Farms, 1969	568 New York Farms, 1968	
Number of Cows		63	58	
Pounds of Milk Sold		794,400	715,200	
Man Equivalent		2.3	2.1	
Total Units of Work		792	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.

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

Number	Number	Percent	Labor Income
of Cows	of Farms	of Farms	Per Operator
Less than 25	13	3	\$ 3,080
25 - 39	126	22	6,080
40 - 54	193	34	7,230
55 - 69	98	17	9,920
70 - 84	52	9	10,400
85 - 99	34	6	11,800
100 - 114	24	4	14,850
115 - 129	16	3	20,410
130 and over	12	2	19,270

#### 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	
• •• •	Item	My Farm	Average Pe 30 Central Plains Farms, 1969	
	Pounds of Milk Sold per cow		12,600	12,300
	Tons of Hay per acre		3.1	2.8
	Tons of Corn Silage per acre		14	14
	Bushels of Cats per acre		63	61
	Bushels of Corn Grain per acre		- 75	71.
			······································	ومحمد ومسترجعا والمستقد المستقد والمستوح والمستوح والمستوح والمتعاد والمستقد والمتعاد والمستعا المتناع والمتع

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 COW AND LABOR INCOME

Pounds Milk Sold Per Cow	Number of Farms	Percent of Farms	Average Number of Cows on these Farms	Labor Income*
Less than 10,000	 58	10	55	\$ 4,250
10,000 - 10,999	66	12	56	6,990
11,000 - 11,999	112	20	56	7,880
12,000 - 12,999	133	23	60	9,670
13,000 - 13,999	112	20	62	10,240
14,000 & over	87	15	58	11,560

568 New York Dairy Farms, 1968

Labor income reported in this table and tables on pages 10, 12 and 15 was calculated using the old 5% interest rate.

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#### 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 P	er Farm
Item	My Farm	30 Central Plains Farms, 1969	
Number of Cows per man	······································	27	28
Pounds of Milk Sold per ma	n	345,400	340,600
Work Units per man	······································	344	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

		Average Per Farm		
Item	My Farm	30 Cen. Plains Farms, 1969	568 New York Farms, 1968	
Purchased Feed	**************************************		· · · · · · · · · · · · · · · · · · ·	
Dairy feed bought	\$	\$ 7,390	\$ 9,459	
Feed bought per cow	\$	\$ 117	\$ 163	
Feed bought as % of milk receipts	76	16%	24%	
Feed bought per cwt. of milk sold	\$	\$ 0.93	\$ 1.32	
Roughage Harvested (Hay Equiv.)				
Hay (tons)		252 tons	234 tons	
Hay crop silage ( tons:3)		3 tons	12 tons	
Corn silage ( tons ÷ 3)		173 tons	174 tons	
Total tons hay equivalent		428 tons	420 tons	
Tons hay equivalent per cow	• · · · · · · · · · · · · · · · · · · ·	6.8 tons	7.2 tons	
Other Considerations				
Total acres in crops per cow		3.6 acres	2.7 acres	
Lime & fertilizer exp./cow	\$	\$ 51	\$ 30	
Lime & fertilizer expense per crop acre	\$	\$ 14	\$ 11	
Heifer number as percent of cow numbers	%	68%	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 23 percent of the total farm expenses.

<b>46</b> .			Average Per Farm		
Ltem	My Farm	30 C. Plains	568 New York		
		Farms, 1969	Farms, 1968		
Beginning Inventory \$_	· ·	\$29,145	\$22,575		
New Machinery Bought		6,809	6,178		
Total	\$	\$35,954	\$28,752		
End Inventory \$\$_		\$31,089	\$25,247		
Machinery Sold		219	168		
Total	\$	\$31,308	<u>\$25,415</u>		
Depreciation	\$	\$ 4,646	\$ 3,337		
Depreciation		\$ 4,646	\$ 3,337		
Interest at 7% ave. inventory		2,108	1,674		
Gas and Oil	-	1,817	1,136		
Machinery and Repairs	••••••••••••••••••••••••••••••••••••••	2,590	1,605		
Bale Ties	······································	61	80		
Milk Hauling		555	435		
Other Machine Hire		518	287		
Auto Expense (Farm Share)	· · ·	210	247		
Electricity (Farm Share)		731	601		
TOTAL MACHINERY COSTS	\$	\$13,236	\$ 9,403		
Gas Tax Refunds \$	· · · ·	\$ 135	\$ 81		
Income from Machine Work		107	106		
Total	· -	- 242	- 1.87		
NET MACHINERY COST	\$	\$12,994	\$ 9,216		
Net Machinery cost / cow	<u>\$</u>	\$ 206	\$ 159		
Net Machinery cost / crop acre	¢	\$ 58	\$ 59		
Net Machinery cost / man	\$	\$ 5,650	\$ 4,389		
Net Machinery cost / cwt. milk s	old \$	\$ 1.64	\$ 1.29		

POWER AND MACHINERY COSTS\*

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.

Item	My Farm	Average : 30 C. Plains Farms, 1969	Per Farm 568 New York Farms, 1968
Value of Operator's labor	\$	\$ 6,120	\$ 6,275
Hired Labor		5,626	3,006
Unpaid Family Labor		<u>790</u>	<u>818</u>
TOTAL LABOR COSTS		\$12,536	\$10,099
Net Power and Machinery cost		12,994	8,737
TOTAL LABOR & MACHINERY COST	\$	\$25,530	\$18,836
Total Per Cow	\$	\$ 405	\$ 325
Total Per Crop Acre	\$	\$ 114	\$ 122
Total Per Man	\$	\$11,100	\$ 8,970
Total Per Cwt. Milk Sold	\$	\$ 3.21	\$ 2.63

# LABOR AND POWER AND MACHINERY COSTS

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

#### MACHINERY COST PER COW AND LABOR INCOME

	500 New York Dairy	Farms, 1900	·
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	<u>1</u> 4	8,467
150 - 174	109	19	9,476
125 - 149	129	23	9,084
100 - 124	125	22	8,897
75 - 99	48	8	11,744
Less than \$75	9	2	8,490

568 New York Dairy Farms, 1968

#### 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.

		usiness	Rates of Production			Labor	Efficiency
Man equiv- alent	No. of cows	Pounds milk sold	Pounds milk sold per cow	Tons hay per acre	Tons corn silage per acre	Cows per man	Pounds milk sold per man
4.0	124	1,545,800	15,300	4.6	21	44	554,600
2.8	86	1,075,600	14,000	3.6	19	37	464,800
2.4	69	868,800	13,400	3.2	17	34	417,600
2.2	59	736,800	13,000	3.0	16	31	379,300
2.0	53	651,500	12,600	2.8	15	29	346,000
1.8	48	587,300	12,100	2.6	14	27	322,100
1.6	43	524,100	11,600	2.4	13	24	298,700
1.4	40	472,600	11,100	2.2	12	23	271,500
1.3	36	408,900	10,400	2.0	10	21	245,700
1.1	28	301,500	8,900	1.6	8	18	195,800

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

\* 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.

		Cos	t Control	<u> </u>
	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	162
	201	30	1.93	177
	218	31	2.07	195
	262	37	2.38	241

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

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

	N/	The same and the same		EE + 20
Item	My farm	Farms with less than 40 cows	40 to 54 cow farms	55 to 69 cow farms
Ibem				
Capital Investment (End of Year Machinery and equipment Livestock Feed and supplies Land and buildings TOTAL INVESTMENT	) \$ \$	\$15,049 15,016 3,607 <u>29,274</u> \$62,946	\$20,490 21,633 5,835 40,289 \$88,247	\$ 26,851 28,442 7,938 <u>49,013</u> \$112,244
Receipts Milk sales Livestock sold Crop sales Miscellaneous receipts Total Cash Receipts Increase in inventory TOTAL FARM RECEIPTS	\$ \$ \$	$ \begin{array}{r}                                     $	\$30,939 3,035 321 <u>1,070</u> \$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	\$	$\begin{array}{c} \$ 558 \\ 5,626 \\ 186 \\ 153 \\ 829 \\ 829 \\ 184 \\ 661 \\ 256 \\ 345 \\ 930 \\ 713 \\ 231 \\ 195 \\ 392 \\ 1,047 \\ 457 \\ 369 \\ \$13,132 \\ 3,227 \\ 2,007 \\ 1,045 \\ 831 \\ \$20,242 \end{array}$		\$ 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 38,469 \$ 17,189 5,389 \$ 11,800 121 \$ 9,557

	My	70 to 84	85 to 99	Farms with 100
Item	farm	cow farms	cow farms	or more cows
	<u>۱</u>			
Capital Investment (End of Year Machinery and equipment	`) 	¢ 26 225	¢ 28 176	¢ 117 617
Livestock	φ	_\$36,325 _36,180	\$38,176 42,525	\$ 47,617
Feed and supplies		$_{11,724}^{50,100}$	12,322	60,363
Land and buildings		68,346	93,203	17,389 115,641
TOTAL INVESTMENT	\$	\$152,575	\$186,226	\$241,010
<b>-</b>		-		· · ·
<u>Receipts</u> Milk sales	¢	\$ 53,053	\$ 65,737	¢ 85 078
Livestock sold	Ψ	_ φ <i>J</i> ς,0 <i>J</i> ς 4,433	φ 02,131 6,466	\$ 85,278
Crop sales	L	339	901	8,877 846
Miscellaneous receipts		1,618	1,844	3,092
Total Cash Receipts	\$	\$ 59,443	$\frac{1,044}{$74,948}$	\$ 98,093
Increase in inventory	Ψ	_ φ <i>)9</i> ,445 12,194	φ 74,940 10,445	φ 90,095 19,346
TOTAL FARM RECEIPTS	\$	$-\frac{12,194}{$71,637}$	\$ 85,393	<u>19,340</u> \$117,439
TOTUD TUUM MODILID	Ψ	_ Ψ / <b>Ι</b> ,ου	φ 0,,,,,,,,,	Ψ11, 19
Expenses				
Hired labor	\$	\$ 4,868	\$ 6,626	\$ 10,760
Dairy feed		12,376	14,964	19,020
Other feed		238	380	558
Machine hire		252	463	858
Machinery repair		2,078	2,758	3,697
Auto expense (farm share)		_' 341	318	268
Gas and oil		_ 1,413	1,610	2,497
Breeding fees		<u>5</u> 37	647	701
Veterinary and medicine		827	1,149	1,260
Other livestock expense	<u> </u>	_ 2,241	3,163	4,302
Lime and fertilizer		2,282	3,144	4,603
Seeds and plants		- 601	733	973
Spray and other crop expense	<b>R407 THE _ 14.0</b>	646	634	1,031
Land, bldg., fence repair		1,109	1,410	1,680
Taxes and insurance Elec. and tel. (farm share)		2,527	3,248	4,030
- ,		988	1,167	1,457
Miscellaneous expenses Total Cash Operating Exp.	¢	$-\frac{1,138}{\$,34,462}$	1,678	$\frac{1,953}{1,953}$
New machinery	φ	\$ <u>34,462</u> 9,464	\$ 44,092	\$ 59,648
New real estate		4,671	7,850 6,097	13,405 7,017
Purchased livestock	·····	1,779	2,737	4,853
Unpaid family labor	<u></u>		644	1,050
TOTAL FARM EXPENSES	\$	\$ 50,734	\$ 61,420	\$ 85,973
The second and the second seco				
Financial Summary	¢	¢ 173 6217		da are han
Total Farm Receipts	Φ	- \$ 71,637 50,73h	\$ 85,393	\$117,439
Total Farm Expenses Farm Income	¢	50,734	61,420	<u>85,973</u>
Interest on av. capital @ 5%	Ψ	\$ 20,903 7,324	\$ 23,973	\$ 31,466
Labor Income per Farm	\$	$\frac{7,324}{$13,579}$	9,050 \$14,923	11,567
Number of operators	Ψ	_ φ ±3,579 69	φ <b>-1</b> 7,923 45	\$ 19,899
LABOR INCOME PER OPERATOR	\$	\$ 10,233	45 \$ 11,275	\$ 15,678
TWO OF THOOPING THE OF EITHION	Ψ	_ Ψ IV,COO	Ψ,()	φ エノッロイロ

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

# 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
<u>Size of Business</u> Number of cows Pounds of milk sold Crop acres Man equivalent Total work units		33 398,700 88 1.4 394	46 563,800 126 1.8 557	61 745,500 156 2.1 724
Rates of Production Milk sold per cow Tons hay per acre Tons corn silage per acre Bushels of oats per acre		12,100 2.5 14 54	12,300 2.6 14 55	12,200 2.8 14 63
Labor Efficiency Cows per man Pounds milk sold per man Work units per man Crop acres per man	······	24 284,800 281 63	26 313,200 309 70	29 355,000 345 74
Feed Costs Feed purchased per cow Crop expense per cow Feed & crop expense per cow Feed cost per cwt. milk Feed & crop expense/cwt. milk % Feed is of milk receipts Hay equivalent per cow Crop acres per cow Fertilizer & lime/crop acre	\$ \$ \$ \$ \$	$ \begin{array}{c}  & \$170 \\  & \$35 \\  & \$205 \\  & \$1.41 \\  & \$1.70 \\  & 26\% \\  & 6.6 \\  & 2.7 \\  & \$8 \\ \end{array} $	\$165 \$44 \$209 \$1.34 \$1.70 24% 7.1 2.7 \$10	\$165 \$45 \$210 \$1.35 \$1.72 25% 7.3 2.6 \$12
Machinery Costs Total machinery costs Machinery cost per cow Machinery cost per man Machinery cost per cwt. milk Machinery cost per crop acre	\$ \$ \$ \$ \$ \$	\$4,930 \$149 \$3,521 \$1.24 \$56	\$7,017 \$153 \$3,898 \$1.24 \$56	\$8,771 \$144 \$4,177 \$1.18 \$56
Capital Efficiency Investment per man Investment per cow Investment per cwt. milk sold Land and buildings per cow Machinery investment per cow Return on investment	<del></del>	\$44,961 \$1,907 \$16 \$887 \$456 % 5.6%	\$49,026 \$1,918 \$16 \$876 \$445 7.0%	\$53,450 \$1,840 \$15 \$803 \$440 9.4%
<u>Other</u> Price per cwt. milk sold Acres hay and hay crop silage Acres corn silage	\$	= \$5.45 = 60 = 14	\$5.49 77 20	\$5.48 92 37

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

Item	My farm	70 to 84 cow farms	85 to 99 cow farms	Farms with 100 or more cows
Number of farms		52	34	52
<u>Size of Business</u> Number of cows Pounds of milk sold Crop acres Man equivalent Total work units		76 966,400 199 2.5 905	92 1,177,800 236 2.9 1,084	126 1,513,000 320 3.7 1,459
Rates of Production Milk sold per cow Tons hay per acre Tons corn silage per acre Bushels oats per acre	-	12,700 2.8 14 61	12,800 3.2 13 62	12,000 2.9 15 69
Labor Efficiency Cows per man Pounds milk sold per man Work units per man Crop acres per man		30 386,600 362 80	32 406,100 374 81	34 408,900 394 86
Feed Costs Feed purchased per cow Crop expense per cow Feed & crop expense per cow Feed cost per cwt. milk Feed & crop expense/cwt. milk % Feed is of milk receipts Hay equivalent per cow Crop acres per cow Fertilizer & lime/crop acre	57 57 7	\$163 \$46 \$209 \$1.28 \$1.65 23% 7.5 2.6 \$11	\$163 \$49 \$212 \$1.27 \$1.65 23% 7.0 2.6 \$13	\$151 \$52 \$203 \$1.26 \$1.69 22% 7.6 2.5 \$14
Machinery CostsTotal machinery costsMachinery costs per cowMachinery cost per manMachinery cost per cwt. milkMachinery cost per cvop acre		\$12,215 \$161 \$4,886 \$1.26 \$61	\$14,034 \$153 \$4,839 \$1.19 \$59	\$18,290 \$145 \$4,943 \$1.21 \$57
Capital EfficiencyInvestment per manInvestment per cowInvestment per cwt. milk sold \$Land and buildings per cowMachinery investment per cowReturn on investment		\$61,030 \$2,008 \$16 \$899 \$478 9.0%	\$64,216 \$2,024 \$16 \$1,013 \$415 13.4%	\$65,138 \$1,973 \$16 \$918 \$378 10.6%
Other Price per cwt. milk sold \$ Acres hay and hay crop silage Acres corn silage		\$5.49 107 58	\$5.58 120 62	\$5.64 157 92

# Considering a Change in the Dairy Business

I. Basic nature of proposed change

		Pres	ent	Change	]	Future ·	with	change
	Number of cows							<del>-</del> .
	Number of youngstoe	k		·		<b>..</b>		-
	Production per cow			·				<u> </u>
	Labor force (man eq	uiv.)		<u></u>		•···=		-
II.	Estimated forage re	equirements a	and product	lon:				
	No. of cows	x tor	ns hay equiv	valent =	_			tons
	No. of youngstock	X	tons hay	y equiv./he	ad =			tons
	10. 01 <u>900-8</u> 21111		hay equiv.					tons
	Allocate total hay Total hay equiv. re						nay e	
	Tons hay equiv. as	silage	x 3 =	tons :	silage			
	Estimate needed cr							
		Proposed	Estimated			nge in		•
	Future crop	Production	<u>Yield</u>	Needed	<u>(list</u>	as plu	s or	minus)
	Hay					<u></u>		
	Hay crop silage							
	Corn silage			··			;	
	Other forage							
	Grain							

# 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 nonmonetary goals may be considered.
- 4. More than one alternative change should be considered.

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IV. Estimating changes in receipts and expenses

	-	Net change	Future with
	Present	(plus or minus)	change
A. <u>Receipts</u>			
Milk sales, gross	\$	\$	\$
Livestock sales			
Crop sales			
Miscellaneous receipts			
Total Cash Receipts	\$ <u></u>	\$	\$
Increase in inventory			
Total Farm Receipts	\$	\$	\$
B. <u>Expenses</u> Hired labor	\$	\$	\$
Feed bought	-	·	· <u></u>
Machine hire			
Machinery repairs			
Auto expense (farm share)			
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			
Taxes, insurance			
Electricity, telephone (farm share)			
Miscellaneous		·	
Total Cash Operating Exp.	\$	\$	\$
New machinery and real estate		· ·	
Livestock purchases	p	_	
Unpaid family labor			
Decrease in inventory			
Total Farm Expenses	\$	\$	\$
C. <u>Financial Summary</u> Capital Investment	¢		\$
Total Farm Receipts	\$		\$
Total Farm Expenses			·
Farm Income	\$		\$
Interest on Capital	* <u></u>		·
LABOR INCOME	\$		

#### 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.

Selected Factors	New York	Southern Michigan	Pennsylvania	Ohio
Number of farms	568	331	76	65
Crop acres	155	275	171	178
Man equivalent	2.1	2.2	2.4	1.7
Number of heifers	40	NA	36	NA
Number of cows	58	54	55	47
Lbs. milk sold/ farm	715,200	665,100	630,000	592,560
Lbs. milk sold/ man	340,600	302,320	262,500	348,560
Lbs. milk sold/ cow	12,300	12,320	11,450	12,600
Milk sales/ cow	\$681	\$706	\$674	\$643
Av. price/ cwt. milk	\$5.52	\$5•73	\$5.88	\$5.10
Purchased feed/ cow	\$163	\$93	\$158	\$109
Taxes/ cow	\$20	\$18	\$16	\$28
Capital Investment				
Land & buildings	<b>\$51,7</b> 30	\$94,400	\$47,100	\$56,620
Machinery & equipment	<b>\$25,</b> 250	\$22,500	\$21,250	\$16,870
Livestock	<b>\$27,3</b> 20	\$21,900	\$26,850	\$18,140
Feed & supplies	<b>\$ 7,6</b> 40	\$11,900	\$10,540	\$ 7,720
Investment/ man	<b>\$53,</b> 300	\$68,500	\$44,058	\$58,440
Investment/ cow	<b>\$ 1,</b> 930	\$ 2,790	\$ 1,922	\$ 2,110
	609 (1) 404 cm			
Financial Summary				
Total farm receipts	\$53,247	\$49,553	\$46,326	\$40,328
Total farm expenses	\$37,717	\$33,735	\$33,070	\$26,068
Farm income	\$15,530	\$15,818	\$13,256	\$14,260
Interest at 5%	\$ 5,393	\$ 7,535	\$ 5,287	\$ 4,968
Labor income/ farm	<b>\$10,1</b> 37	\$ 8,283	\$ 7,969	\$ 9,292
Labor income/ operator	<b>\$ 8,7</b> 24	\$ 7,019	\$ 7,244	\$ 8,447

# 1968 DAIRY FARM BUSINESS SUMMARY DATA

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#### Family Living Expenditures

Family living expenses have first claim on farm income. In any farm business financial planning, it is important that the family living expenses be considered. Below are the living expenditures for families in Illinois who were on record keeping projects.

### FAMILY LIVING EXPENDITURES Illinois Farm and Urban Families, 1967

Item	My Family	 Ave 176 Farm Families	rage of 79 Urban Families
Number in Family Average Age of Husband		 4.1 45	4.0 40
Living Expenses	· .		
Food Fuel Electricity, gas and water Telephone Household supplies and bank Paid service and laundry Housing Furnishings and equipment Clothing Personal care Transportation Medical care Recreation Education and reading Church and welfare Gifts Total Living Expenses	\$ 	\$ 1,200 197 172 64 148 59 536 427 493 172 442 689 311 272 418 293 \$ 5,893	\$ 1,299 147 242 103 142 52 1,470 425 487 294 1,368 477 470 368 365 196 \$ 7,905
Income taxes Social Security Life insurance Savings and investments Total Family Expenditures	\$	756 245 573 <u>3,153</u> \$10,620	1,038 212 489 <u>2,050</u> \$11,694

The urban family living expenses averaged about \$2,000 more than the farm families. The income taxes for the urban families were higher, while their savings and investments were lower than for the farm families. Housing and transportation for urban families were considerably higher than for the farm families.

# PROGRESS OF THE FARM BUSINESS

One phase of business analysis is that of comparing your business with that of other farmers. Another kind of analysis is that of comparing your current year's business with that of previous years. This shows the progress you are making. In planning ahead, it is helpful to set business targets or goals which should be related to the progress you have been making.

		1967	1968	<u>1969</u>	1970 
Size of Business	t de la composición de				
Average number of	COWS				
Total lbs. milk so	ld		ar (		
Rates of Production				<i>.</i> .	an an a
Lbs. milk sold per	COW				
Tons corn silage/a	acre	<u></u>	and a state of the second s		
Labor Efficiency					
Lbs. milk sold per	r man		ace		
Cost Control		•			
% Purchased feed :	is of milk	1/0	%	%	%
Machinery cost per	r cow	\$	\$	\$	\$
Labor cost per co	Ŵ	\$	\$	\$	\$
Capital Efficiency				an di Marina di Kara	
Total inventory v	alue	\$	\$	\$	\$
Total investment/	COM	\$	\$	\$	\$
Debt Situation					
Total debt outsta	nding	\$	\$	\$	\$
Debt per cow		\$	\$	\$	\$
Net Worth		\$ <u></u>	\$	\$	\$
Price			• .	a de la tra	
Price per cwt. mi	lk	\$	\$	\$	\$
Financial Summary					
Total Farm Receip	ts	\$	\$	\$	\$
Total Farm Expens	es	\$	\$	\$	\$
Labor Income/Oper	ator	\$	\$	\$	\$

NumberPounds MilkCoursPounds MilkFeed BoughtMachineryofSold PerFerSold PerSold PerPerExpenseCowsFarmManManCowCowPerExpense1201,691,70050655,90016,000 $\ddagger$ 29 $\ddagger$ 29 $\ddagger$ 251171,593,60038532,90014,400521301131,523,60038532,90014,400751481061,447,680036491,50014,100751511041,141,70033454,90014,10080163841,073,80032440,20013,70087175751,020,40030425,20013,7008717566876,40030387,50013,6009219659735,80029356,40013,50010820451671,40028331,40013,30010820751672,40027296,70013,10011620850662,80027315,20013,10012320948604,20027296,70013,10012421044604,20027296,70013,10012422349611,00027296,70013,10012422349611,00027296,70013,10012422349611,000 <t< th=""><th></th><th>of Business</th><th>Labor</th><th>Efficiency</th><th>Production</th><th>Cost</th><th>Control</th></t<>		of Business	Labor	Efficiency	Production	Cost	Control
CowsFarmManCowCowRefByperfive1201,691,70050655,90016,000 $\$$ 29 $\$125$ 1171,598,60040 $543,700$ 15,400 $43$ 1381131,523,60036 $522,900$ 14,400521391101,4476,80036 $491,500$ 14,1007511481081,443,00035489,80014,100751511041,141,70033454,90014,10080163841,073,80032442,90013,70087175771,046,20032422,90013,7008718966876,40030387,50013,6008819265797,10029369,20013,6009219659735,80029335,40013,50010820451671,90028330,00013,20010820751671,90028330,00013,200114208506(2,80027294,30013,10012320948604,20027294,30013,10012421046594,00025292,80012,50013021043587,70025292,80012,50013021044506,20027294,30013,000149							
1201,691,70050655,90016,000 $\ddagger 29$ $\ddagger 125$ 1171,598,60040 $543,700$ 15,400 $\ddagger 3$ 1381131,523,60038 $532,900$ 14,400 $52$ 1391101,476,80036491,50014,100751511041,414,70033 $454,900$ 14,100751511041,141,70033 $454,900$ 14,10080163841,073,80032440,20013,70087175771,046,20032 $422,900$ 13,7008718966876,40030 $387,500$ 13,6008819259735,80029355,40013,50010520158697,50029346,60013,50010820453673,40028331,40013,30010820751671,90028330,00013,20011420849611,00027296,70013,10011620848604,20027294,30013,10012421045594,00025293,30013,00013021042572,30025292,10012,40014222342510,50022277,70010,40014622443597,70021256,3009,90016224839384,5002022274,9							piter .
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117 $1,598,600$ $40$ $543,700$ $15,400$ $43$ $138$ $113$ $1,523,600$ $38$ $532,900$ $14,400$ $52$ $139$ $110$ $1,476,800$ $36$ $491,500$ $14,100$ $75$ $148$ $108$ $1,443,000$ $35$ $489,800$ $14,100$ $75$ $151$ $104$ $1,141,700$ $33$ $454,900$ $14,100$ $80$ $163$ $84$ $1,973,800$ $32$ $440,200$ $13,900$ $81$ $172$ $77$ $1,046,200$ $32$ $422,900$ $13,700$ $87$ $189$ $66$ $876,400$ $30$ $425,200$ $13,600$ $88$ $192$ $65$ $797,100$ $29$ $369,200$ $13,600$ $92$ $196$ $59$ $735,800$ $29$ $355,400$ $13,500$ $108$ $204$ $53$ $673,400$ $28$ $331,400$ $13,300$ $108$ $207$ $51$ $671,900$ $28$ $330,000$ $13,200$ $114$ $208$ $50$ $662,800$ $27$ $315,200$ $13,100$ $116$ $208$ $49$ $611,000$ $27$ $294,300$ $13,100$ $124$ $210$ $46$ $594,000$ $25$ $292,800$ $12,500$ $139$ $211$ $42$ $572,300$ $25$ $292,800$ $12,500$ $139$ $211$ $42$ $572,300$ $25$ $292,800$ $12,500$ $139$ $211$ $42$ $577,700$ $25$ $29$	120	1,691,700	50	655,900	16 000	\$ 29	\$125
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# ARRAY OF SELECTED FARM BUSINESS FACTORS 30 Central Plains Dairy Farms, 1969