# 968 DAIRY FARM BUSINESS ;UMMARY

# VESTERN LATEAU REGION

G. L. Casler

Department of Agricultural Economics New York State College of Agriculture A Statutory College of the State University Cornell University, Ithaca, New York

#### WESTERN PLATEAU REGION FARM BUSINESS SUMMARY - 1968

This report summarizes the records of 40 Western Plateau dairy farmers who in 1968 participated in business management projects sponsored by the Cooperative Extension Service in 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 plus Allegany County 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.

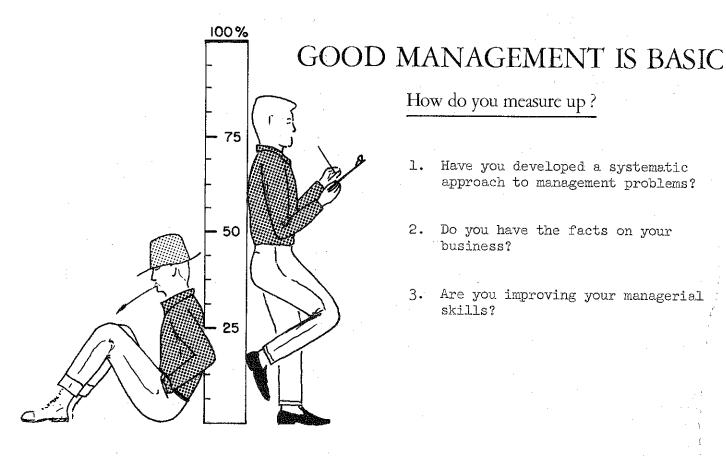
One of the purposes of the business management projects is to teach and encourage farmers to keep better records. A more important purpose is to teach farmers to use the records as a basis for sound management decisions. Each farmer has the opportunity to participate for a three year period. In this length of time he should learn good record keeping and learn how to analyze his business. This should enable him to use more effectively the economic and management information available from many sources, including the general farm management rogram offered by the Extension Service.

Farmers in many counties of New York State participate in business management ojects similar to those in the Western Plateau Region. Some of the data inuded in this booklet is taken from the 1967 records of 548 New York dairy rmers. This gives farmers the opportunity to compare their business with a rger group of their competitors. The larger number of farmers also makes saible the sorting of farms into groups, thereby allowing comparisons that uld not be made from the relatively small number of records in any one county.

Changes in farming are taking place at a rapid pace. Research data indicate that the average number of cows per farm in New York increased from 29 in 1960 to 38 in 1967. This change is due both to the dropping out of smaller farms and to the expansion of many of those remaining. Projections based on the same research indicate that the average number of cows per farm in 1975 will be 55. The number of dairy farms in 1960 was 40,200. By 1967 it had dropped to 26,350; in 1975 it will likely be 16,500. In the future some dairymen will expand, others stay at about the same size and still others will quit farming. It is a challenge to each dairyman to decide upon the best course of action for himself and his family. A study of your business records and budgeting of some possible changes for the future will help you to make this decision.

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 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; J. Daniel Hill, Cattaraugus; Glenn Cline, Chautauqua; and Thomas Jorgensen, Erie.



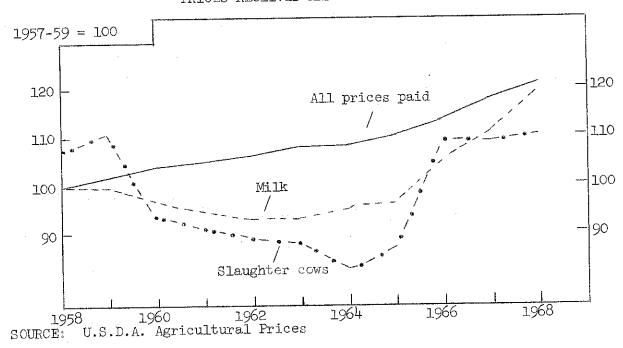
## How do you measure up?

- 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) l.
- 2. What is your objective? (goal)
- 3. Size up what you have to work with (resources)
- Look for various ways to solve the problem (alternatives) 4.
- Consider probable results of each way (consequences) 5.
- 6. Compare the expected results (evaluate)
- Select way best suited to your situation (decision) 7.
- Put the decision into operation (action) 8.

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 1968 averaged \$5.43 per hundredweight. This was 36 cents higher than the average for 1967 and \$1.16 more than 1965. Cull dairy cow prices also were relatively good in 1968. The overall index of prices paid by New York dairy farmers continued to rise in 1968.

In recent years, prices of some farm inputs have risen while others have declined. From 1965 to 1968, farm wages rose 30 percent, dairy cows rose 34 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, 1960-68

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	\$4.31 4.21 4.14 4.10 4.21 4.27 4.79 5.07 5.43	\$15.00 14.60 14.26 14.01 13.17 13.91 17.35 17.33 17.58	\$278 260 245 234 237 238 269 303 319	\$71 72 74 76 74 76 80 80	\$210 213 218 221 227 235 258 291 306	104 105 106 108 108 110 113 118

<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 548 New York		40	Western	Plateau	farms, 1968
Item	farms, 1967	My farm	Ave	erage	$\overline{\text{Low}}$	Range High
Labor:			<u> </u>		· .	
Man equivalent	1.9			1.9	1.1	4.0
Full-time hired men Hired men part of yea Family help Partnership	ar		(21 (26	farms) farms) farms) farms)		
Livestock: (Av. Number	)					
Cows	51			52	22	124
Heifers	33			1,1,	13	— <b>— ·</b>
Crops: (Acres grown)						
Hay	79 (495)	<del></del>	84	(40)*	15	275
Hay crop silage***	6 (112);	÷	4	(5)*	0	45
Corn for silage	27 (452)		37	(35)*	0	120
Corn for grain	9 (205)*		4	(11)*	0	30
Oats for grain	11 (252)*		9	(19)*	0	33
Wheat	N.A.		l	(4)*	0	30
Other crops	6		7			<u>.</u> .
Total crop acres	138		146		27	423

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

<sup>\*\*</sup> Crop data from 495 of the 548 New York farms.

<sup>\*\*\*</sup> 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.

FARM INVENTORY VALUES, end of year

<del></del> -				
Item	Average of 548 New York farms, 1967	My farm	40 Westerr farms. Average per farm	Plateau 1968 Percent of total
	\$20,250	\$	\$22,985	23
achinery and equipment	22,160		26,916	27
bultry	<del></del>			
ther livestock		***************************************	28	
ed and supplies	6,840		7,231	7
and buildings	42,560		42,856	<u>43</u>
Total Investment	\$91,810	\$	\$100,016	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

397 834 ,800 3,321 665 308	\$ \$ \$ \$	\$ 442 \$ 824 \$ 1,923 \$52,640 \$ 685 \$ 294 years 2.4 years
	665 308 5 years	308 \$

<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 RECEIPTS

	Average of 548 New York		40 Wester. farms,		
Item	farms, 1967	My farm	Average per farm	Percent of total	
Milk sales	\$32,347	\$	\$35,021	81	
Livestock sold	3,283	T			
Egg sales	_	· · · · · · · · · · · · · · · · · · ·	4,416	10	
Crop sales	7.00	Control of the last of the las	** ***		j <sup>-</sup>
Miscellaneous*	133	-	762	3	į
	1,032		1,122	5	)
TOTAL CASH RECEIPTS	\$36,795	\$	\$41,321	100	
Increase in inventory	7,514		10,104		-
TOTAL FARM RECEIPTS	\$44,309	\$	\$51,425		f

<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 - \$2,164, Livestock - \$4,165, Feed and Supplies - \$470, Land and Buildings - \$3,075. 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 \$10,104 assets on these farms during 1968.

#### SELECTED INCOME FACTORS

Average price per cwt. of milk	Average of 548 New York farms, 1967	My farm	40 Western Plateau farms, 1968
sold Milk sales per cow Total cash receipts per man	\$ 5.25	\$	\$ 5.35
	\$ 634	\$	\$ 673
	\$19,366	\$	\$21,748

#### 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.

FARM EXPENSES

	Average of 548 New York farms, 1967	My farm	Average	1968 Percent
Item	\$ 2,147	\$	\$ 1,733	7
Hired labor	\$ 2,141 8,440	Ψ	8,093	34
Dairy feed bought	200		404	2
Other feed bought (includes hay)			347	1
Machine hire	179		1,591	7
ruck, tractor, machinery expense	1,310		- 256	1
Auto expense (farm share)	219		- 1,051	14
Gasoline and oil	922		397	2
Breeding fees	347		_ 37, 749	3
Veterinary and medicine	529	,	- 1,953	8
Other dairy, livestock expense	1,461		- 2,279	10
Lime and fertilizer	1,511	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	446	2
Seeds and plants	414		465	2
Spray, other crop expense	364	<del>سان میں بردی</del>	733	3
Building, fence expense	611		1,648	7
Taxes, insurance	1,431			2
Electricity, telephone (farm share)	628	<del></del>	1,197	5
Miscellaneous	580			<del></del>
TOTAL CASH OPERATING EXPENSES	\$21,293	\$	\$23,938	100
New machinery	5,128	<u> </u>	5,570	
New buildings, improvements	2,867		3,312	
Livestock purchased	1,432	· · · · · · · · · · · · · · · · · · ·	2,709	
Unpaid family labor	825		840	)
Decrease in inventory				<u>.</u>
TOTAL FARM EXPENSES	\$31,545	5 \$	\$36,369	)

# 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 548 New York farms, 1967	My farm	Average of 40 Western Plateau farms, 1968
Total Cash Receipts	\$36,795	\$	\$41,321
Total Cash Operating Expenses	- 21,293		<u>- 23,93</u> 8
FARM CASH OPERATING INCOME	\$15,502	ф Ф	\$17,383
Less: Family Living Expense*			- 6,750
mount available for debt payment and purchase of capital items	s \$ 9,491	\$	\$10,633

<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

Ttem	Average of 548 New York farms, 1967 My farm	Average of 40 Western Plateau farms, 1968
verage capital investment  TOTAL FARM RECEIPTS  TOTAL FARM EXPENSES  FARM INCOME  Interest on capital at 5%  LABOR INCOME per farm  Number of operators  LABOR INCOME per operator	\$88,050 \$\$\$\$\$	\$94,964 \$51,425 - 36,369 \$15,056 - 4,748 \$10,308 50 \$ 8,246

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

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

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

#### RETURN ON INVESTMENT

Item	Average of 548 New York farms, 1967	My farm	Average of 40 Western Plateau farms, 1968
Farm Income Value of Operator's Labor* Return on Investment Rate of Return on Capital	\$12,764 - 6,011 \$ 6,753 7.7%	\$ - - - \$%	\$15,056 - <u>6,750</u> \$ 8,306 8.7%

<sup>\* \$5,400</sup> per year. There were 50 operators on the 40 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

		Average p	er farm
Item	My farm	40 Western Plateau farms, 1968	548 New York farms, 1967
Number of cows			
Pounds of milk sold		52	51
Man equivalent		654,300	616,600
		1.9	1.9
Total work units		656	594

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 548 New York Dairy Farms, 1967

Number	Number	Labor income
of cows	of farms	per operator
Under 25	22	\$ 3,560
25-39	176	5,350
40-54	170	7,380
55-69	104	8,800
70-84	38	11,020
85-99	11	11,790
100 and over	27	13,360

#### RATES OF PRODUCTION

High rates of production of both animals and crops are very important to the uccess of a farm business. However, when high crop and animal yields are chieved without regard to costs, net income is reduced. In general, it pays to nerease 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

T. W	-		
		Average per 1 40 Western Plateau farms, 1968	farm 548 New York farms, 1967
Item	My farm	Tarms, Tot	هموسي والمساور والمسا
		12,600	12,100
Pounds of milk sold per cow		3.0	2.6
Tons of hay per acre		15	17
ons of corn silage per acre		63	50
shels of oats per acre		86	80
shels of corn grain per acre			

The relationship of production per cow to labor income on three sizes of arms is shown in the following table for 548 New York dairy farms in 1967.

MILK SOLD PER COW AND LABOR INCOME 548 New York Dairy Farms, 1967

44)	フ។	O MEM TOTIL				
Pounds milk sold per cow	114 farms Less than Percent of farms	with 35 cows Labor income	252 farms 35-54 of farms	with cows Labor income	182 farms 55 cows ar Percent of farms	with  nd_over  Labor  income
Less than 10,000 10,000 - 10,999 11,000 - 11,999 12,000 - 12,999 13,000 - 13,999 14,000 & over	25 20	\$2,588 4,311 5,246 4,773 5,347 6,687	12 13 23 18 19	\$4,325 5,399 6,085 7,285 7,838 9,814	10 9 23 20 24 14	\$ 8,818 6,636 9,141 10,831 11,418 12,375

#### 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

Item	My farm	Average per 40 Western Plateau farms, 1968	farm 548 New York farms, 1967	_
Number of cows per man		0.7		
Pounds of milk sold per man		27	27	
Work units per man		344,400	324,500	<i>;</i> *
		349	313	

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

# MILK SOLD PER MAN AND LABOR INCOME 548 New York Dairy Farms, 1967

milk sold per man	114 farm <u>less than</u> Percent of farms	s with 35 cows Labor income	252 farm 35-54 Percent of farms	s with cows Labor income	182 farm 55 cows a Percent of farms	s with nd over Labor income
Under 200,000 200,000 - 299,999 300,000 - 399,999 400,000 & over		\$3,073 4,745 6,235 6,499	5 37 35 23	\$3,521 5,647 7,291 9,090	2 16 53 29	\$ 4,334 7,561 9,370 13,513

#### 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 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

SELECTED FACTORS	KEDATUD 10 1	
Item	My farm	Average per farm  40 W. Plateau 548 New York farms, 1968 farms, 1967
Purchased Feed  Dairy feed bought  Feed bought per cow  Feed bought as % of milk receipts  Feed bought per cwt. of milk sold  Roughage Harvested (hay equivalent)  Hay (tons)  Hay crop silage (tons ÷ 3)  Corn silage (tons ÷ 3)  Total tons hay equivalent  Tons hay equivalent per cow	\$	\$ 8,093
Other Considerations  Total acres in crops per cow  Lime & fertilizer expense/cow  Lime & fertilizer expense/crop acr  Heifer number as % of cow numbers	\$ re \$	2.8 acres 2.5 acres \$ 44 \$ 30 \$ 16 \$ 12 % 85% 65%

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.

# POWER AND MACHINERY COSTS\*

		Average	per farm
Item	My farm	40 W. Plateau farms, 1968	548 New York farms, 1967
Beginning inventory \$		\$20,821	
New machinery bought	······································		\$17,808
Total	<del></del>	5,571	<u>5,128</u>
End inventory \$	Υ	\$26,392	\$22,936
Machinery sold	******************	\$22,985	\$20,251
Total	ф	110	<u>131</u>
Depreciation	Ψ	\$23,095	\$20,382
	\$	\$ 3,297	\$ 2,554
Depreciation	ф	, in the second of the second	. — 5/// i
Interest at 5% av. inventory	Ψ	\$ 3,297	\$ 2,554
Gas and oil	***************************************	1,095	952
Machinery and repairs	<del></del>	1,051	922
Bale ties		1,591	1,310
Milk hauling		80	84
Other machine hire		650	424
luto expense (farm share)	<del></del>	347	179
Electricity (farm share)		256	219
TOTAL MACHINERY COSTS	*	<u>485</u>	510
as tax refunds	\$	\$ 8,852	\$ 7,154
ncome from machine work	- id-specific	\$ 75	\$ 93
Total	<del></del>	260	97
NET MACHINERY COST		<b>335</b>	190
	\$	\$ 8,517	\$ 6,964
et machinery cost per cow	\$	***************************************	Y V 9 704
t machinery cost per crop acre	ф.	\$ 164	\$ 137
t machinery cost per man	ψ\$	\$ 58	\$ 56
t machinery cost/cwt. milk sold	Ψ <u> </u>	\$ 4,483	\$ 3,665
Does not include insurance, hous	φ	\$ 1.30	\$ 1.13

<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 farm 10 N Plateau 548 N		
Item	My farm	40 W. Plateau farms, 1968	farms, 1967	
Falue of operator's labor  Hired labor  Inpaid family labor  TOTAL LABOR COSTS  Tet power and machinery cost  TOTAL LABOR & MACHINERY COST	\$ \$ \$	\$ 6,750 1,733 840 \$ 9,323 8,517 \$17,840	\$ 6,011 2,147 <u>825</u> \$ 8,983 <u>6,964</u> \$15,947	
otal per cow otal per crop acre otal per man otal per cwt. milk sold	\$ \$ \$	\$ 343 \$ 122 \$ 9,389 \$ 2.73	\$ 313 \$ 116 \$ 8,393 \$ 2.59	

The following table shows the relationship of machinery costs to labor income on the 548 dairy farms in 1967.

MACHINERY COST PER COW AND LABOR INCOME 548 New York Dairy Farms, 1967

Machinery cost	Percent	Labor
per cow	of farms	income
\$225 & over	1	\$2,430
\$200 - \$224	7	5,276
\$175 - \$199	10	5,871
\$150 - \$174	17	7,370
\$125 - \$149	24	7,524
\$100 - \$124	26	8,406
\$75 - \$99	13	8,690
Less than \$75	2	8,672

FARM	BUSINESS	CHART FO	אורו אים כוו	) 50 274 au	COOPERATORS
	548	New Vork	Tr THTM	MANAGEMENT	COOPERATORS
	7.0	TICM TOTA	Dairy	Farms,* 196	57

No.	f Business Pounds	Rat	es of Producti	on	T = 1	
of cows	milk sold	Pounds milk sold per cow	Tons hay per acre	Tons corn silage	Labor Cows per	Efficiency Pounds milk solo
105 70 59 54 48	1,269,200 900,700 739,600 653,300 582,400	15,300 14,000 13,300 12,900 12,500	4.1 3.3 3.0 2.8 2.5	per acre 25 21 20 18 17	man 43 35 32 29 27	per man 531,700 428,900 385,600 357,800 334,400
44 40 36 32 25	530,400 467,600 421,500 361,900 262,600	11,900 11,500 11,000 10,200 8,500	2.3 2.1 1.9 1.4	16 15 14 12 9	26 24 22 20 17	313,400 288,200 260,100 228,400 179,500

<sup>\*</sup> These farms are considerably above the average for all farms in New York State. For example, the average number of cows for the 548 farms was 46 compared with 38 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 average of the 548 farms for each factor.

The figure at the top of each column is the average of the top ten percent of the farms for that factor. For example, the figure 105 at the top of the column headed "No. of Cows" is the average number of cows on the ten percent of the farms with the most cows. The other figures in each column are the average for the second ten percent third ten percent, etc. The figure at the bottom of each column (25 for No. of Cows) is the average for the ten 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 ten percent for one factor would <u>not</u> necessarily be the same farms which make up the top ten 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.

#### COST CONTROL FACTORS

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

reed oought	% Feed is of milk	ost Control Feed and crop expense per cwt. milk	Machinery cost per cow
per cow	receipts 13%	\$1.07	\$ 82 98
\$ 75 110 128 143 157	18 21 23 25	1.32 1.46 1.58 1.68	109 118 129
173 187 204 225	27 29 32 3 <sup>4</sup> 39	1.79 1.90 1.99 2.12 2.37	141 150 162 180 217

# ctors Affecting Feed Cost:

tons hay equivalent per cow quality of forage ratio of cows to heifers lbs. milk sold per cow quantity of home grown grain average price of milk

# Factors Related to Machinery Costs:

amount of machinery use made of machinery substitution of machinery for labor new vs. old machinery mechanical skill of operator

# STRONG AND WEAK POINTS

After analyzing the business and determining changes to be considered, each possible change should be studied in detail. The work sheet or budgeting form

After analyzing the cushing possible change should be stufound on pages 22 and 23 can alternative.	died in detail. The wo be used for projecting	the likely results of	f each
STRONG POINTS:			
	and the second second		eet i
WEAK POINTS:			

# FARM BUSINESS SUMMARY BY HERD SIZE 548 New York Dairy Farms, 1967

Item	My farm	Farms with less than 25 cows	-> 00 55	
Capital Investment (end of year)	- · · · · · · · · · · · · · · · · · · ·		cow farms	cow farm
Livestock \$		\$ 7,043 8,141	\$13,981	\$18,627
Feed and supplies -			14,234	19,749
Land and buildings		2,560 _20,075	4,178	5,964
TOTAL INVESTMENT \$		\$37,819	<u>25,878</u>	36,695
Receipts	· · · · · · · · · · · · · · · · · · ·	4013013	\$58,271	\$81,035
Milk sales				
Livestock sold \$		\$12,511	\$20,464	400 000
Crop sales		1,283	2,154	\$28,963
Miscellaneous receipts -		67	117	2,932
Total Cash Receipts 4		413	756	155
increase in inventory		\$14,274	\$23,491	840
TOTAL RECEIPTS		1,912	_4,012	\$32,890
φ		\$16,186	\$27,503	6,004
xpenses			1-19000	\$38,894
Hired labor		•		
Dairy feed \$		\$ 189	\$ 572	¢ 7 200
Other feed		3,352	5,593	\$ 1,397
Machine hire —		65 ·	159	7,558
Machinery repair	<u> </u>	98	115	189
Auto expense (farm share)		426	847	189
Gas and oil		165	177	1,130
Breeding fees		469	691	236
Veterinary and medicine		156	245	828
ouner livestock expense		243	338	3 <b>1</b> 2 484
time and fertilizer —		482	870	
Seeds and plants		451	855	1,181
Spray and other crop expense		134	245	1,316
Tence renoin	<del></del>	95	227	385
takes and inginence		178	428	313
Lec. and tel. (farm chang)		663	931	484
TISCETTAMEOUS EXDENSES	<del></del>	293	450	1,288
Total Cash Operating From	<del></del>	<u>151</u>	345	558 558
"Cw machinery	:	\$ 7,610	220 200	<u> 551</u>
lew real estate	<del></del>	1,908	,_3,491	18,399
urchased livestock		210	1,105	4,379
npaid family labor		380	802	2,282
TOTAL FARM EXPENSES		675	836	1,207 888
Ψ	·	\$10,783	70.000	27,155
ancial Summary	*		γ-	-19-20
otal Farm Receipts \$		d= C = O C		
Tal Farm Expenses	<del></del>	\$16,186 \$	27,503 \$3	8,894
Farm Income	<del></del>	10,783	19,322 °2	7,155
terest on av. capital @ 5%	<del></del>	\$ 5,403	19,322 2 8,181 \$1	<u>・ナーノノ</u> 1 . 730
Labor Income per Farm		1,043	2,813	1,739 3,902
moer of operators		ψ J,560 <u>\$</u>	5,368 \$	7, 837
LABOR INCOME PER OPERATOR \$		, 20	169	194
Ψ		\$ 3,560 \$	5,337 \$ 7	エブサ

# FARM BUSINESS SUMMARY BY HERD SIZE 548 New York Dairy Farms, 1967

	My farm	55 to 69 cow farms	70 to 84 F	erms with 85 or more cows
Item	1 81.111		= :	
apital Investment (end of year)  Machinery and equipment  Livestock  Feed and supplies  Land and buildings  TOTAL INVESTMENT	\$\$	\$ 24,315 26,994 7,973 49,347 \$108,629	\$ 28,152 34,251 10,922 66,075 \$139,400	\$ 41,815 48,451 16,886 108,048 \$215,200
Receipts  Milk sales Livestock sold Crop sales Miscellaneous receipts Total Cash Receipts Increase in inventory TCTAL RECEIFTS	\$\$	\$ 38,862 - 3,625 - 152 - 1,369 \$ 44,008 - 10,167 \$ 54,175	\$ 51,004 4,574 153 1,400 \$ 57,131 11,066 \$ 68,197	\$ 71,452 8,334 60 2,098 \$ 81,944 21,171 \$103,115
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		\$ 25,2 \$ 25,2 \$ 25,2 4,0 1,6	13,210 149 1 261 2,040 0 255 3 1,365 8 918 2,417 98 2,417 93 2,261 11 532 93 2,261 11 532 93 2,251 24 2,251 893 1,17! 882 \$ 35,216 6,59 676 847	1,018 762 1,325 3,263 1,251 1,199 \$ 50,994 10,827 9,693 4,395 7 4,395 8 73 \$ 76,64
Financial Summary Total Farm Receipts Total Farm Expenses Farm Income Interest on av. capital @ Labor Income per Farm	\$ \$ 5% \$	38. \$ 15.	175 \$ 68,19 ,770 48,59 ,405 \$ 19,6 ,177 6,6 ,228 \$ 12,9	53 76,64 34 \$ 26,47 93 10,23

# SELECTED BUSINESS FACTORS BY HERD SIZE 548 New York Dairy Farms, 1967

Number of farms  Size of Business  Number of cows Pounds of milk sold Crop acres Man equivalent Total work units  Rates of Production Milk sold per cow Tons hay per acre Tons corn silage per acre Bushels of oats per acre		20 21 20 395 7 2 2 5 5 0 12,	farms  168  33 ,600 92 1.4 401  000 2.3	40 to 5 cow farm 178 46 558,800 121 1.7 544
Number of cows Pounds of milk sold Crop acres Man equivalent Total work units  Rates of Production Milk sold per cow Tons hay per acre Tons corn silage per acre Bushels of oats per acre	241,70 - 24 - 11,50 - 2,1	21 20 395 7 2 2 5 5	33 ,600 92 1.4 401	46 558,800 121 1.7 544
Number of cows Pounds of milk sold Crop acres Man equivalent Total work units  Rates of Production Milk sold per cow Tons hay per acre Tons corn silage per acre Bushels of oats per acre	241,70 - 24 - 11,50 - 2,1	00 395 57 2 55 0 12,	,600 92 1.4 401 000 2.3	558,800 121 1.7 544
Rates of Production  Milk sold per cow Tons hay per acre Tons corn silage per acre Bushels of oats per acre	241,70 - 24 - 11,50 - 2,1	00 395 57 2 55 0 12,	,600 92 1.4 401 000 2.3	558,800 121 1.7 544
Man equivalent Total work units  Rates of Production Milk sold per cow Tons hay per acre Tons corn silage per acre Bushels of oats per acre		57 2 55 0 12,	92 1.4 401 000 2.3	558,800 121 1.7 544
Total work units  Rates of Production  Milk sold per cow  Tons hay per acre  Tons corn silage per acre  Bushels of oats per acre	1. 24 	2 5 0 12,	1.4 401 000 2.3	1.7 544
Milk sold per cow Tons hay per acre Tons corn silage per acre Bushels of oats per acre		0 12,	401 000 2.3	544
Milk sold per cow Tons hay per acre Tons corn silage per acre Bushels of oats per acre	_ 2.1 _ 15	4	2.3	
Tons hay per acre  Tons corn silage per acre  Bushels of oats per acre	_ 2.1 _ 15	4	2.3	70
Bushels of oats per acre	_ 2.1 _ 15	4	2.3	
odsheis of oats per acre		)		12,100
	- 5 <u>1</u>	<del>[</del> -	16	2.5 14
Labor Efficiency			45	49
cows per man				
Pounds milk sold per man	_ 18		24	27
Work units per man  Crop acres per man	201,400 204	702		328,700
	. 48	~	.06	320
Feed Costs			66	71
Feed purchased per cow \$ Crop expense per cow \$	\$ 160	f		
reed & crop expense nor	\$ 160 \$ 32 \$ 192 \$ 1.39		69 \$	164
- cost per out mili	\$ 192	ф <i>1</i>	40 \$ 29 \$	3 44
reed & Crop expense	\$ 1.39	\$ 1.1		208
70 = CCG IS OI m7 1/2 10 00 00 00 00 00 00 00 00 00 00 00 00	, 7 01		75 \$	1.35 1.71
Hay equivalent per cow  Crop acres per cow	- 20	2	27%	26%
Fertilizer & lime/crop acre \$	6.3 2.7	6.	5	6.7
	\$ 8	2. \$		2.6
achinery Costs		Ψ	9 \$	11
Total machinery costs	¢ 0 00=			
Machinery cost per cow Machinery cost per man	\$ 2,905 \$ 138	\$ 4,86:	1 \$	6,133
Machithery Cost non and	\$ 2,905 \$ 138 \$ 2,421 \$ 1.20	\$ 147	7 \$	133
Machinery cost per crop acre \$		\$ 3,472 \$ 1.23 \$ 53	<b>:</b> \$;	3,608
	\$ 51	\$ 53		1.10 51
pital Efficiency Investment per man		, 2	Ψ	ノエ
investment per con	\$31,516	φ), τ <		
investment per cut		\$41,622 \$ 1,766	', '	,668
	\$ 16	\$ 1,766 \$ 15	\$ 1	.,762
TWO III I I I I I I I I I I I I I I I I I	\$ 1,801 \$ 16 \$ 956 \$ 335	\$ 1,766 \$ 15 \$ 784 \$ 421	\$ \$ \$ \$ \$	15 <b>7</b> 98
leturn on investment per cow \$	\$ 335 	T 16T		405
er	<del>-</del> -	4.7%	,	7.2%
rice per cwt. milk sold \$	٠.			•
cres nav and have onen	\$ 5.18	\$ 5.17	\$ 5	5.18
cres corn silage	43 6	62 14	ヤ ン	73

# SELECTED BUSINESS FACTORS BY HERD SIZE 548 New York Dairy Farms, 1967

Item	My farm	55 to 69 cow farms	70 to 84 cow farms	Farms with 85 or more cows
Number of farms		102	39	14.7
Size of Business  Number of cows  Pounds of milk sold  Crop acres  Man equivalent  Total work units		60 743,200 134 2.1 689	77 949,600 197 2.7 903	112 1,323,700 220 3.4 1,244
Rates of Production Milk sold per cow Tons hay per acre Tons corn silage per acre Bushels oats per acre		12,400 2.8 17 55	12,300 2.6 16 52	11,800 3.0 18 49
Labor Efficiency Cows per man Pounds milk sold per man Work units per man Crop acres per man		29 353,900 328 64	29 351,700 335 73	33 389,300 366 65
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	\$	\$ 166 \$ 47 \$ 213 \$ 1.34 \$ 1.72 26% 6.3 2.2 \$ 13	\$ 172 \$ 44 \$ 216 \$ 1.39 \$ 1.75 26% 7.0 2.6 \$ 11	\$ 161 \$ 53 \$ 214 \$ 1.36 \$ 1.81 25% 6.1 2.9 \$ 19
Machinery Costs  Total machinery costs  Machinery costs per cow  Machinery cost per man  Machinery cost per cwt. milk  Machinery cost per crop acre	69-69-69-69-69-69-69-69-69-69-69-69-69-6	\$ 8,244 \$ 137 \$ 3,926 \$ 1.11 \$ 62	\$10,790 \$ 140 \$ 3,996 \$ 1.14 \$ 55	\$14,377 \$ 128 \$ 4,229 \$ 1.09 \$ 65
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	\$\$ \$	\$51,728 \$ 1,810 \$ 15 \$ 822 \$ 405 8.2%	\$51,630 \$ 1,810 \$ 15 \$ 858 \$ 366 9.2%	\$63,294 \$ 1,921 \$ 16 \$ 965 \$ 373 8.9%
Other Price per cwt. milk sold Acres hay and hay crop silage Acres corn silage	\$	\$ 5.23 79 28	\$ 5.37 109 47	\$ 5.40 125 55

#### Considering a Change in the Dairy Business

Desc	eribe change:						
	possible alternatiernatiernatie	ve changes		itional worl	ksheets	to analyze	these
I.	Basic nature of pro	posed chang	ςe				
		Pr∈	esent	Change		Future with	change
	Number of cows						
	Number of youngstoc	К.					<del></del>
	Production per cow						<del></del>
	Labor force (man eq	uiv.)				<u></u>	
II.	Estimated forage re	quirements	and product:	ion:			
	No. of cows	x to	ons hay equi	valent =			tons
	No. of youngstock	X	tons ha	y equiv./he	ad = _		tons
		total	L hay equiv.	requiremen	t _		tons
	Allocate total hay	equivalent	requirement	to hay and	- silage	e production	p 0
	Total hay equiv. re	quired	=	hay tons +		tons hay e	quiv.
	Tons hay equiv. as	silage	x 3 =	tons s	ilage		:
	Estimate needed cro	p acres and	l changes fr	om present:			
	Future crop	Proposed Production	Estimated Yield	Acres <u>Needed</u>		ange in acre as plus or	
	Hay						
	Hay crop silage						
	Corn silage						
	Other forage						
	Grain						
		. 7					

- 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

	<del></del>	-		
		Present	Net change (plus or minus)	Future with change
Α.	Receipts		•	
	Milk sales, gross	\$	\$	\$
	Livestock sales			
	Crop sales			
	Miscellaneous receipts			
	Total Cash Receipts	\$	\$	\$
	Increase in inventory			
	Total Farm Receipts	\$	\$	\$
В.	Expenses Hired labor	\$	. \$	\$
	Feed bought	· <del></del>	·	
	Machine hire			
	Machinery repairs			
	Auto expense (farm share)			
	Gasoline and oil			
	Breeding fees			
	Veterinary and medicine		1977	
	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			
	Unpaid family labor			
	Decrease in inventory			
	Total Farm Expenses	\$	\$	\$
C.	Financial Summary Capital Investment	ф.		\$
	Total Farm Receipts	\$		\$
	Total Farm Expenses			
	Farm Income	\$		\$
	Interest on Capital			
	LAROR INCOME	¢		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.

1967 DAIRY FARM BUSINESS SUMMARY DATA

Selected Factors	New York	Southern Michigan	Vermont	Connecticut
Number of farms	548	290	127	25
Crop acres Man equivalent Number of heifers Number of cows	138	259	NA	NA
	1.9	2.2	2.0	2.1
	33	NA	35	40
	51	54	53	66
Lbs. milk sold/ farm Lbs. milk sold/ man Lbs. milk sold/ cow Milk sales/ cow	616,600	657,6 <sup>1</sup> 40	608,560	811,460
	324,500	298,930	304,300	386,400
	12,1 <b>0</b> 0	12,180	11,480	12,290
	\$635	\$670	\$635	\$736
Av. price/ cwt. milk	\$5.25	\$5•50	\$5.53	\$5.99
Purchased feed/ cow	\$165	\$96	\$190	\$228
Taxes/ cow	\$17	\$17	NA	NA
Capital Investment				
Land & buildings	\$42,5 <b>6</b> 0	\$87,000	\$46,540	\$66,360
Machinery & equipment	\$20,250	\$23,400	\$13,440	\$17,760
Livestock	\$22,160	\$21,400	\$20,020	\$26,770
Feed & supplies	\$ 6,840	\$11,000	\$ 5,890	\$ 8,420
Investment/ man Investment/ cow	\$48,320	\$64,910	\$42,940	\$56,820
	\$ 1,800	\$ 2,640	\$ 1,620	\$ 1,810
Financial Summary				
Total farm receipts Total farm expenses	\$44,309	\$45,002	\$42,810	\$51,494
	\$31,545	\$31,112	\$32,322	\$37,712
Farm income	\$12,764	\$13,890	\$10,488	\$13,782
Interest at 5%	\$ 4,402	\$ 7,140	\$ 4,294	\$ 5,966
Labor income/ farm Labor income/ operator	\$ 8,362	\$ 6,750	\$ 6,194	\$ 7,816
	\$ 7,511	\$ 6,193	\$ 5,631	\$ <b>6,513</b>

## FARM BUSINESS SUMMARY

# 13 Cattaraugus County Dairy Farms - 1968

ital Investment	1 /68	1/1/69	Receipts	\$32,410	0
hinery and	1700	-1-1-2	Milk sales Livestock sold	4,400	
quipment \$18	8.592	\$21,476	Egg sales		
estock 1	9.173	21,692	Crop sales	22	
d and cumplies	4.655	5,686	Miscellaneous receipts	<u> </u>	4
1d and buildings $3$	3,619	35,659		\$37,48	7
		\$84,514	Total Cash Receipts		
THE HAVE THE PARTY OF THE PARTY	, -,	,	Increase in inventory	8,47	
enses		\$ 1,613	TOTAL FARM RECEIPTS	\$45,95	i6
ced labor iry feed		8,384	Financial Summary		
ner feed		139		\$45,95	56
chine hire		203	Total Farm Receipts	31,26	
chine expense		1,378	Total Farm Expenses		
to expense		220	Farm Income	\$14,69	
s & oil		808	Interest	4,0	<u>L4</u>
eeding fees		327	LABOR INCOME per farm	\$10,6	79
terinary & medicine		605	LABOR INCOME POI TOTAL		
her livestock		1,681	Number of operators		15
me & fertilizer		1,750 344	LABOR INCOME per operator	\$ 9,2	55
eds and plants		472	THINOIL 2210 02 TO T		
ray, other crop		734	Business Factors		
ilding expense		1,481			49
exes, insurance Lectricity, telephon	16	575	Number of cows Number of heifers		43
iscellaneous expense		586			8
	•		Man equivalent Total work units		510
otal Cash Expenses		\$21,300	Lbs. of milk sold	618,6	500
		ф г <i>6</i> 60	LOS. OF MILLI BOLK		
ew machinery		\$ 5,669	Lbs. milk sold per cow	12,6	
eal estate		2,271 1,146	Lbs. of milk sold per man	343,1	
ivestock purchases		877	Cows per man		27
npaid labor			-		as e ad
ecrease in inventor	У		Percent feed is of milk receipts		26%
OTAL FARM EXPENSES		\$31,263	Feed bought per cow	ψ.	169
			Hav equiv. per cow		9.0
			Machinery cost per cow	\$ 7	147
			Lime & fertilizer per crop acre	\$ \$ 12 \$ 5	・ユフ
			Avg. milk price	<b>ゅう</b>	4
			Crops Grown		
			Yield per		

Crop	Acres per farm	Yield per acre	Total crop
Hay Hay crop silage Corn silage	97 6 30 7	2.6 t. 7.2 t. 17.0 t. 61 bu.	256 t. 43 t. 509 t. 427 bu.
Oats Other crops	4		

Total acres of crops 144

#### FARM BUSINESS SUMMARY

# 17 Chautauqua County Dairy Farms - 1968

	-	2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
Capital Investment		Receipts	
1/1/68	1/1/69		
Machinery and		Milk sales	\$36,007
equipment \$22,644 Livestock 26.7		Livestock sold	5,208
T	- , -	Egg sales	
T		Crop sales	1,173
<del></del>	9 47,684	Miscellaneous receipts	1,204
TOTAL INVESTMENT \$99,336	\$110,025	Total Cash Receipts	\$43,592
Expenses		Increase in inventory	_10,689
Hired labor Dairy feed	\$ 1,320	TOTAL FARM RECEIPTS	\$54,281
Other feed	8,329 745	Financial Summary	
Machine hire	302	Potol Porm Danie	
Machine expense	1,638	Total Farm Receipts	\$54,281
Auto expense Gas & oil	183	Total Farm Expenses	<u>37</u> ,753
Breeding fees	988	Farm Income	\$16,528
Veterinary & medicine	411	Interest	5,234
Other livestock	779	LABOR INCOME per farm	
Lime & fertilizer	2,235	minor income ber farm	\$11,294
Seeds and plants	2,427	Number of operators	^-
Spray, other crop	526 560	LABOR INCOME per operator	21
Building expense	675	Free Ser Obergoot	\$ 9,563
Taxes, insurance	1,893	Business Factors	
Electricity, telephone	650		
Miscellaneous expense	868	Number of cows	54
		Number of heifers Man equivalent	46
Total Cash Expenses	\$24,529	Total work units	1.9
n~		Lbs. of milk sold	677
New machinery	\$ 4,457	TOD: OI WITH SOID	661,100
Real estate	4,070	Lbs. milk sold per cow	
Livestock purchases	3,462	Lbs. of milk sold per man	12,200
Unpaid labor	1,235	Cows per man	347,900
Decrease in inventory		tor more	28
TOTAL FARM EXPENSES	\$37,753	Percent feed is of milk receipts Feed bought per cow	23% \$ 150
		Hay equiv. per cow	\$ 150 8.7
		Machinery cost per cow	
		Lime & fertilizer per crop acre	\$ 161 \$ 16.51 \$ 5.45
		Avg. milk price	\$ 5.45
			-

Crops Grown

	crops c	rown	
Crop	Acres per farm	Yield per acre	Total crop
Hay Hay crop silage Corn silage Corn grain Oats Wheat Other crops Total acres of c	79. 42. 5. 10. 1. 6. 2. 147.	3.2 t. 8.0 t. 14.9 t. 98 bu. 54 bu. 31 bu.	251 t. 32 t. 627 t. 490 bu. 545 bu. 31 bu.
	- ,		

#### FARM BUSINESS SUMMARY

## 10 Erie County Dairy Farms - 1968

pital Investment		Receipts	
chinery and	1/1/69	Milk sales	406
	401, 000	Livestock sold	\$36,738
1 2	\$24,063 28,179	Egg sales	3,083
ed and supplies 6,438	6,908	Crop sales	766
nd and buildings 40,930		Miscellaneous receipts	1,863
TAL INVESTMENT \$91,927	\$103,155	Total Cash Receipts	\$42,450
penses		Increase in inventory	11,228
red labor	\$ 2,593	TOTAL FARM RECEIPTS	\$53,678
ry feed	7,315		1,000
er feed	170	Financial Summary	
hine hire	612	Total Farm Receipts	\$53,678
hine expense	1,788	Total Farm Expenses	40,652
o expense & oil	426	Farm Income	
eding fees	1,475	Interest	\$13,026
erinary & medicine	466 884	22.10 O.L. O.D. O.	4,877
er livestock	1,825	LABOR INCOME per farm	\$ 8,149
e & fertilizer	2,715		φομπο
ds and plants	443	Number of operators	14
ay, other crop	293	LABOR INCOME per operator	\$ 5,779
lding expense	830		
es, insurance	1,447	Business Factors	
ctricity, telephone	533	Number of cows	5 <sup>1</sup> 4
cellaneous expense	2,547	Number of heifers	40
al Cash Expenses	\$26,362	Man equivalent	2.0
	,	Total work units	680
machinery	\$ 7,333	Lbs. of milk sold	689,300
l estate	3,377		,,-
estock purchases	3,460	Lbs. milk sold per cow	12,800
aid labor	120	Lbs. of milk sold per man	344,700
rease in inventory	-	Cows per man	- 27
AL FARM EXPENSES	\$40,652	Persont food is of will	
	Ψ.090/	Percent feed is of milk receipts Feed bought per cow	23%
		Hay equiv. per cow	\$ 137
		Machinery cost per cow	7.6
		Lime & fertilizer per crop acre	\$ 185
		Avg. milk price	\$ 18.34 \$ 5.33
·		· · · · · · · · · · · · · · · · · · ·	\$ 5.33
	Ca	rops Grown	

	<u>01000</u>	LOWII	
Crop	Acres per farm	Yield per acre	Total crop
Hay Corn silage Corn grain Oats	77 37 6	3.2 t. 13.5 t. 86 bu.	243 t. 500 t. 518 bu.
Wheat Other crops	3 14	69 bu. 39 bu.	764 bu. 117 bu.
Total serve of	2 lc 0		

Total acres of crops 148

# FARM BUSINESS SUMMARY 7 Allegany County Dairy Farms - 1968

Capital Investment  Machinery and equipment \$29,718 Livestock 27,666 Feed and supplies 7,154 Land and buildings 53,279  TOTAL INVESTMENT \$117,817	1/1/69 \$34,126 28,961 7,083 54,441 \$124,581	Receipts Milk sales Livestock sold Egg sales Crop sales Miscellaneous receipts Total Cash Receipts	\$41,096 3,242 343 610 1,970 \$47,261
Expenses Hired labor	\$ 2,946	Increase in inventory TCTAL FARM RECEIPTS	\$54,025
Dairy feed Other feed Machine hire Machine expense Auto expense Gas & oil Breeding fees Veterinary & medicine Other livestock Lime & fertilizer Seeds and plants Spray, other crop Building expense Taxes, insurance Electricity, telephone Miscellaneous expense Total Cash Expenses	11,410 227 210 1,733 139 1,281 335 1,132 1,752 2,089 651 846 677 1,548 842 1,107	Total Farm Receipts Total Farm Expenses  Farm Income Interest IABOR INCOME per farm  Number of operators IABOR INCOME per operator  Business Factors  Number of cows Number of heifers Man equivalent Total work units	\$54,025 42,107 \$11,918 6,060 \$ 5,850 10 \$ 4,101 63 47 2.8 781
New machinery Real estate Livestock purchases Unpaid labor Decrease in inventory TOTAL FARM EXPENSES	\$ 8,580 1,563 425 2,614  \$42,107	Lbs. of milk sold  Lbs. milk sold per cow  Lbs. of milk sold per man  Cows per man  Percent feed is of milk receipts  Feed bought per cow  Hay equiv. per cow  Machinery cost per cow  Lime & fertilizer per crop acre  Avg. milk price	750,300 11,900 268,000 23 28% \$ 175 7.1 \$ 153 \$ 11.05 \$ 5.48

	Crops	Grown	
Crop	Acres per farm	Yield per acre	Total crop
Hay Corn silage Corn grain Oats Other crops	120 26 2 35 <u>6</u>	2.7 t. 15.0 t. 70 bu. 55 bu.	319 t. 390 t. 140 bu. 1,920 bu.
Total acres	of crops 189		