# DAURY FARM DAURY FARM BUSINESS SUMMARDES FOR 1956

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### NEW YORK DAIRY FARM BUSINESS SUMMARIES FOR 1956

"Dairy farm business management projects" were sponsored by the county agricultural agents in ten counties in the State during the year 1956. These projects, which were carried on in cooperation with the College of Agriculture at Cornell, are organized on a three-year basis. This was the first year for three counties, the second year for five counties, and the third year for two counties.

Each farm family in these projects kept a farm cash account book and a farm inventory book. At the end of the year these books were checked and summarized at the College. Various farm business factors were calculated. The figures for each farm were combined with those of the other cooperators in a county to get averages for the county group. These group averages were presented in county summary reports which were used by the individual cooperators in studying their businesses.

Participation in these projects was voluntary. The farm families that cooperated generally were scattered throughout the county. The major interest of the cooperators was to find ways to improve their farm business. There was considerable variation in the nature of the farms but all were dairy operations. It should be pointed out that the summary of these businesses does not reflect the average for all farms in these counties. The summary merely reports on the experiences of the individual farm operators in the projects.

Farm operators today are faced with many business management decisions. Good managers in any kind of business look for facts which will aid them in making decisions. The records kept by these farm families during 1956, and the business analyses made from them provides some facts that may be of help to other farmers in making management decisions.

A general summary of the 342 farm businesses in the ten counties has been prepared. The averages for the 342 farms are reported in this mimeograph. Blank spaces have been provided so that any interested farmer can compare his figures with the group averages. Selected information from the individual county summaries is included on pages 18 and 19.

The county agricultural agents in ten other counties in the State obtained farm business information for 1956 from farmers and prepared summary reports. Selected business factors from these county summaries are reported on page 20.

This report has been prepared principally for the use of county agricultural agents and teachers of vocational agriculture in their educational programs. Farmers and others interested in agriculture also may find a use for this information.

This summary prepared by C. A. Bratton, Department of Agricultural Economics. G. J. Conneman, C. W. Loomis, R. S. Smith, and C. A. Bratton in cooperation with the county agents prepared the individual county summaries.

Agents sponsoring the ten county farm business management projects included: G. L. Conklin, Cayuga; H. W. Matott, Chenango; C. S. Denton, Delaware; Ray Bender, Essex; R. W. Agor, Fulton; R. M. Cary, Madison; Frank Colling, Montgomery; R. W. Hadlock, Oneida; W. D. Brown, Otsego; and R. E. Wingert, Schoharie.

### Steps in making a management decision:

- 1. Locate the trouble spot (problem)
- 2. Review 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)

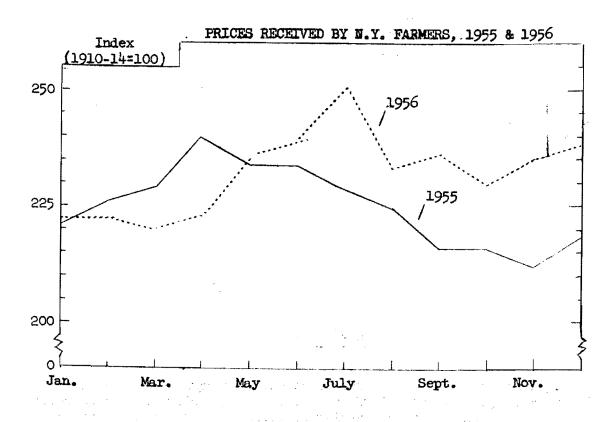
Have you developed a sound procedure for arriving at management decisions?

or

"Do you shoot from the hip?"

#### FARM PRICES

Prices are an important factor affecting profits from farming. In studying the financial returns from farm businesses for any year, consideration must be given to the nature of prices for that year.



Prices received by New York farmers which declined each year from 1952 to 1955 turned up in 1956. Starting with May 1956, the index of New York farm prices each month was higher than the corresponding month of 1955. The December 1956 price index was 9 per cent above December 1955. For the year, New York prices averaged about 2 per cent above 1955.

Not all New York farmers shared equally in the upturn in prices. For example, the prices of turkeys, chickens, eggs, calves, lambs, and dry beans were lower late in 1956 than they were in 1955.

Prices paid by farmers increased about 2 per cent during 1956. Machinery, building materials, and wages were up while feed, livestock, and seed were down. Between 1954 and 1956 farm wages increased 5 per cent whereas farm machinery prices rose about 6 per cent. Fertilizer continued to be a good buy as prices decreased about 3 per cent. Feed prices declined 9 per cent from 1954 to 1956 due to the large supplies on hand.

### THINGS TO WORK WITH

The 342 farms included in this summary were scattered throughout the ten counties. All the farms had dairies but there was considerable variation in the combination of other enterprises on these farms. The "resources" or things to work with are reported below:

THINGS TO WORK WITH 342 New York Dairy Farms, 1956

Number			Range	
Item	reporting	Average*	Low	High
Man equivalent (No. men)		1.8	1.0	4.7
Operator only Hired help Unpaid family labor	( 4 farms) (296 farms) (181 farms)			
Livestock: (Number) Cows		34	12	102
Heifers	• • • •	20 °	Ö	70
Bulls	(174 farms)	1.4	1.0	6.5
Hens	(108 farms	255	3	3250
Crops: (Acres grown) Hay		56	5	300
Grass silage	(87 farms	4	2	72
Corn for grain	(71 farms)	12	ı	5 <b>5</b>
Corn for silage	(300 farms)	13	3	67
Oats	(254 farms)	13	ı	55
Total cropland	,	98	26	370

<sup>\*</sup>Average for farms reporting

These were "family farms". The farm operator and members of the family made up most of the labor force. A total of 296 farms reported hiring some labor, 181 farms reported some unpaid labor, while only 4 farms had neither unpaid family labor nor hired labor. Some farms were operated by two or more individuals as partners. There were 298 single operators and 44 partnerships (4 with 3 operators) making a total of 390 operators on the 342 farms.

Crops and livestock other than those listed above were grown on some of the farms. Only the most common are shown above.

### CAPITAL INVESTMENT

Capital is one of the four basic factors of production (i.e. land, labor, capital, management). The capital investment in modern farm businesses is large. In this report the farm inventory is used as a measure of capital investment.

FARM INVENTORY VALUES, JANUARY 1, 1957 342 New York Dairy Farms

		per farm	Amount	per cow
Item	Av. 342 farms	Your farm	Av. 342 farms	Your farm
Land and buildings	\$18,906	\$	\$ <b>5</b> 56	\$
Machinery and equipment	8,438		248	
Cattle	9,676		285	
Other livestock	182		. 5	
Feed and supplies	3,396		100	
TOTAL INVESTMENT	\$40,598	\$	\$ 1,194	\$

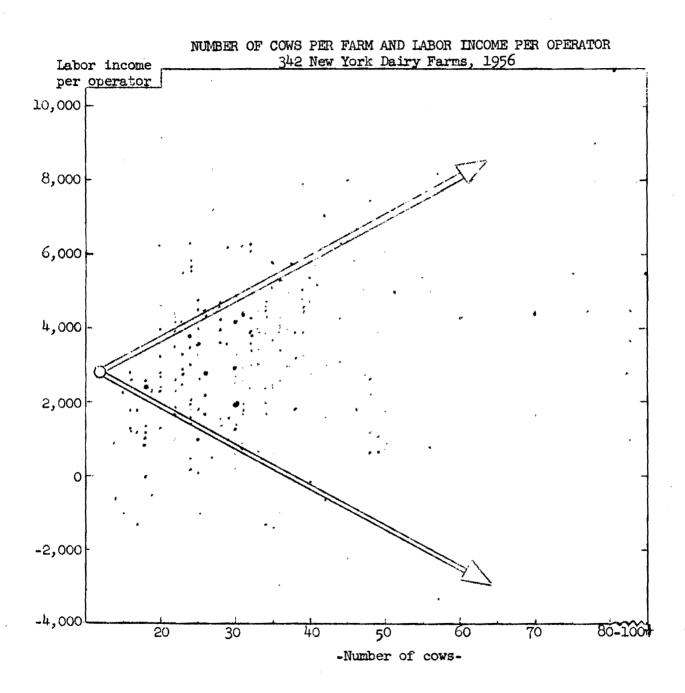
The average investment per man on these farms was \$22,554. This is nearly double the capital investment per worker in many industries.

The total investment per cow of \$1,194 is in line with that found in most dairy areas. (Land and buildings was the largest item amounting to \$556 per cow.) The amount of cropland on the farms and the location in respect to cities affects the land and building investment per cow.

High capital investment per "productive unit" (per cow) in a business tends to cause a heavier overhead cost per unit. In some cases, it may indicate that the capital resources are not being used to capacity.

Capital turnover (years required for receipts to equal capital) is sometimes used to measure efficiency in the use of capital. On these farms, it would require 2.3 years for the 1956 farm receipts to equal the capital investment.

### FINANCIAL SUMMARY OF YEAR'S BUSINESS



Each dairy farm included in the farm business management projects is represented by a dot on the above graph. Labor income per operator is plotted rather than the labor income per farm.

The labor incomes per operator ranged from a minus \$4,500 to a high of \$14,300 or a difference of \$18,800.

IABOR INCOMES 342 New York Dairy Farms, 1956

Item	Your farm	Average of 342 farms
Capital Investment	\$	\$39,708
Farm Receipts	\$	\$17,654
Farm Expenses	\$	\$12,397
Farm Income	\$	\$ 5,257
Interest on Capital at 5%	\$	<u>\$ 1,985</u>
LABOR INCOME per farm	\$	\$ 3,272
Number of operators	Commence of the control of the contr	390
LABOR INCOME per operator	\$	\$ 2,870

"Labor Income" is a measure of the return to the farm operator for his labor and management. It is the amount left after paying the usual farm expenses, and deducting a charge for unpaid family labor and for interest on the capital invested.

Changes in inventories during the year are included in figuring labor income. If the farmer builds up his inventory this is considered as a farm receipt, and if he depletes his inventory the amount used up is included as a farm expense. Interest and principal payments on debts are not included in the expenses. On the other hand, to make all farms comparable, a five per cent interest charge on the capital investment (average of beginning and end inventories) is deducted in figuring labor income.

A labor income of \$2,870 would be equivalent to a salary of about \$55 per week or \$240 per month.

In addition to the labor income on a farm, the family usually has the use of a house, milk, eggs, meat, vegetables, and other products produced on the farm. The estimated value of these farm privileges for 1956 on 152 of these dairy farms averaged \$1,020. In general, these items were valued at what they would sell for at the farm. If they were purchased in the city, they would cost considerably more.

### WHERE THE MONEY CAME FROM

### FARM RECEIPTS 342 New York Dairy Farms, 1956

Eggs sold		508	3
Crop sales	And the transfer of the second	429	3
Miscellaneous*		1,068	_ 7
Total cash receipts	\$	\$15,864	100
Increase in inventory		1,790	
TOTAL FARM RECEIPTS	\$	\$17,654	

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

Total cash receipts on these farms amounted to \$15,864 per farm in 1956. This is equivalent to about \$1,300 per month or \$43 per day.

Increases in inventory due to expansion in the business are considered as a farm receipt. These items could have been sold and turned into cash receipts but the farmer decided to invest this in the business. In other businesses they refer to it as "plowed back" into the business.

Milk was the largest source of income making up 79 per cent of the total cash receipts. Livestock and poultry sold were the second most important receipt item.

Milk sales averaged \$371 per cow.

### WHERE THE MONEY WENT

The expenses on these farms averaged about \$1,000 per month or \$34 per day including Sundays. This is the equivalent of spending \$1.42 per hour every hour of the year.

FARM EXPENSES
342 New York Dairy Farms, 1956

Item	Your farm	Average of 342 farms	Per cent of total
Dairy feed bought	\$	\$ 3,250	33
Other feed bought	des des programmes and an extensive from the state of the	381	4
Hired labor	geographic des propriet de la companya de la compa	1,102	11
Dairy & poultry expense*		848	. <b>9</b> .
Gas and cil		625	6
Machinery repairs, etc.		641	7
Auto expense (farm share)		143	1
Machine hire		118	1
Fertilizer and lime		578	6
Seeds		224	2
Other crop expenses	Management of the second of th	119	1
Building repairs, etc.		318	3
Livestock bought		485	5
Miscellaneous**		1,051	11
Total cash operating	\$	\$ 9,883	100
New machinery	CONTROL CONTRO	1,584	
New buildings	· · · · · · · · · · · · · · · · · · ·	678	
Unpaid family labor		252	
Decrease in inventory	and the state of t		
TOTAL FARM EXPENSE	\$	\$12,397	

<sup>\*</sup>Veterinary \$158, Breeding \$127, DHIA \$81, Milk Hauling \$237, Other \$245
\*\*Taxes \$418, Insurance \$176, Electricity \$198, Telephone \$52, Rent \$59,
Other \$148.

### FEED COSTS

Feed bought is usually the largest single expense item on a dairy farm. It is a challenge to dairymen to keep feed costs under control. A few business "checks" may be helpful in locating weaknesses in the feed program.

### SELECTED FACTORS RELATED TO FEED COSTS 342 New York Dairy Farms, 1956

Item	Your farm	Average of 342 farms
Purchased feed		
Dairy feed bought	\$	\$3,250
Feed bought per cow	\$	\$96
Feed bought per Cwt. milk sold	\$	\$1.07
Feed bought as % of milk receipts		<b>_%</b> 26%
Roughage Harvested (hay equivalent) Hay (tons)		117 tons
Grass silage (tons + 3)		9 tons
Corn silage (tons + 3)		43 tons
Total tons hay equivalent		169 tons
Tons hay equivalent per cow		5.0 tons
Acres in crops per cow	<del>district on the second of the</del>	2.9 acres
Lime and fertilizer expense per cow	\$	\$17
Lime and fertilizer expense per crop acre	\$	<b>\$</b> 6
Number of heifers per 10 cows		5•9

Good quality roughage is the cheapest source of nutrients on a New York dairy farm. In considering purchased feed costs, one needs to look at the roughage program. These farms harvested an average of 5 tons of "hay equivalent" per cow. In addition to the quantity, the quality also must be taken into consideration.

The tons of hay equivalent per cow must feed the accompanying young cattle. If a farm has an unusually large number of heifers more roughage per cow will be needed. There was an average of 5.9 heifers of all ages per 10 cows on these farms.

#### FARM MACHINERY COSTS

Machinery costs of all kinds (including milk hauling) were 22 per cent of the total farm expenses and interest on investment. Machinery costs were unquestionably the second most important item of expense on these farms.

MACHINERY COSTS\*
342 New York Dairy Farms, 1956

			Average 3 <sup>1</sup>	
Item		ur ferm	Amount	Per cent
Beginning inventory	\$		\$7,971	
New machinery bought	the designation of the second	Programme	1,584	
Total		\$	\$9,555	·
End inventory	\$		\$8,438	
Machinery sold	***************************************		66	
Total		\$	\$8,504	
Depreciation		\$	\$1,051	33
Interest @ 5% Av. inventory			410	13
Gas and oil			625	19
Machinery repairs			641	20
Milk hauling			237	7
Machine hire			118	4
Auto expense (farm share)			143	14
Total machinery cost		\$	\$3,225	100
Machinery cost per cow		\$	<b>\$95</b>	
Machinery cost per crop acre		\$	\$33	
Machinery cost per work unit		\$	<b>\$</b> 5•	61
Machinery cost per man		\$	\$1,792	

<sup>\*</sup>Does not include insurance, housing, or labor repair costs.

Depreciation was the largest item in the machinery costs and accounted for one-third of the total. This is an item sometimes overlooked by farmers in estimating what it costs to operate machinery. Machines do wear out and become obsolete which accounts for the depreciation. The fixed costs of depreciation and interest made up 46 per cent of the total cost.

### ANALYSIS OF FARM BUSINESS

Size of business, rates of production, labor efficiency, and cost control are important factors affecting farm incomes. Below are some measures used in studying these factors.

SIZE OF BUSINESS 342 New York Dairy Farms, 1956

	Average		
Item	Your farm	342 farms	
Man equivalent		1.8	
Number of cows	Approximately the second secon	34	
Pounds 3.7% milk sold	de unidérrigate par en reconstité d'Alla	302,505	
Total crop acres	**	98	
Total work units*		575	

<sup>\*</sup>A "work unit" is the average amount of productive work accomplished by a man in a 10-hour day under New York farm conditions.

Farm management studies have shown that in general larger farms pay better than small farms. Larger farms make it possible to use equipment and other items more efficiently. However, if costs are not under control, large farms can lose more than small farms.

Below are some data on size of farm and income for the 342 farms in the farm business management projects in 1956.

COWS PER FARM AND LABOR INCOME 342 New York Dairy Farms, 1956

Number of Number		Lbs. Milk Sold		Labor income
cows of farms	per cow	per man	per operator	
Under 20	37	8,470	117,300	\$1,400
20-29	101	8,760	157,500	2,800
<b>3</b> 0-39	125	9,050	174,000	3,000
40-49	45	9,420	216,200	3,400
50-over	34	8,950	206,700	3,900

RATES OF PRODUCTION
342 New York Dairy Farms, 1956

Item	Your farm	Av. of farms reporting
Animal Production:		
Lbs. 3.7% milk sold per cow		8,897
Crop Yields:		
Tons hay per acre		2.1
Tons corn silage per acre		9•5
Bu. oats per acre		52

Pounds of milk sold has been adjusted to a 3.7 per cent butterfat equivalent so that farms would be comparable. Pounds of milk sold per cow is always less than D.H.I.C. or other production records. The pounds of milk sold per cow ranged from 4,700 to 13,300.

Roughage is the cheapest source of nutrients available to New York State dairymen. It is for this reason that good crop yields are important on dairy farms. Crop yields are frequently a weak point in farm businesses.

Rates of production also have an effect on farm incomes. There is a point, however, beyond which it is no longer profitable to increase the rates of production. Below are data on rates of production and incomes from the dairy farms in the 1956 farm business management projects.

MILK SOLD PER COW AND LABOR INCOME 342 New York Dairy Farms, 1956

Lbs. Milk sold per cow	Number of farms	Number of cows	Milk sold per man	Labor income per operator
Under 7,000	34	28	116,500	\$1,440
7,000-7,999	55	30	142,900	2,750
8,000-8,999	78	35	170,100	2,650
9,000-9,999	93	34	178,300	2,790
10,000-10,999	50	<b>3</b> 6	206,100	4,370
11,000-over	32	33	212,100	3,220

### IABOR EFFICIENCY 342 New York Dairy Farms, 1956

		Average
_ <del>*</del> u	to the same of the	
Work units per man	**************************************	319

Measures of labor efficiency indicate how much the labor force on the farm accomplishes. On a dairy farm, pounds of milk sold per man is a good simple measure to use. Work units per man combines all productive work done by the labor force but it has the disadvantage of not taking into account the products produced or the output.

High labor efficiency can be accomplished in several ways. Some farmers do it by long hours and unusually hard work. Others get efficiency by the use of machinery and equipment, but this can be costly. Still others develop good work methods which oftentimes can be done at little cost yet enable the operator to accomplish more.

Below are some data showing the relationship of labor efficiency and incomes.

POUNDS OF MILK SOLD PER MAN AND LABOR INCOME 342 New York Dairy Farms, 1956

Pounds milk sold per man	Number of farms	Number of cows	Lbs. Milk sold per cov	Labor Income
Under 120,000	52	25	7,570	\$2,150
120,000-150,000	79	27	8,560	2,050
150,000-180,000	79	34	8,890	2,920
180,000-210,000	56	35	9,450	3,310
210,000-240,000	41	45	9,980	3,380
240,000-over	35	45	9,940	4,550

"Cost control" is essential in a modern farm business. This means keeping check on all costs. At the same time a farmer must guard against cutting costs which might reduce the efficiency of the business.

Below are some "yardsticks" for checking the reasonableness of expenses on a dairy farm.

COST CONTROL MEASURES 342 New York Dairy Farms, 1956

Item	Your farm	Average for 342 farms
% feed bought is of milk receipts	%	26%
Feed bought per cow	\$	<b>\$9</b> 6
Fertilizer & lime cost per cow		17
Machinery repairs per cow		19
Taxes per cow		12
Insurance per cow	**************************************	5
Electricity per cow		6
Veterinary cost per cow		5
Total farm expense per cow		365
Machinery cost per crop acre	****	33
Fertilizer & lime/crop acre	-	5.90
Gas & oil per crop acre	galataire anno de la companya de la	6.38
Taxes per crop acre		4.27
% expenses are of receipts	<u></u>	70%

There is  $\underline{\text{NO}}$  magic in keeping costs in line. All cost items must be watched.

COMPARISON OF BUSINESS SUMMARIES OF 20 FARMS WITH HIGHEST LABOR INCOMES AND THE 20 FARMS WITH LOWEST LABOR INCOMES 342 New York Dairy Farms, 1956

	Average of	Average of 2	O farms with:
	the 342	Highest	Lowest
	farms	labor incomes	labor incomes
Capital Investment (End of year):			
Land and buildings	\$18,906	\$22,568	\$26,153
Cattle	9,676	11,977	8,859
Machinery	8,438	12,082	8,419
Feed and supplies	3,396	6,876	2,847
Other	182	204	209
TOTAL END INVENTORY	\$40,598	\$53,707	\$46,487
Farm Receipts:			
Milk seles	\$12,600	\$18,442	\$10,927
Livestock sold	1,259	2,019	1,137
All other sales	2,005	4,692	<u> 1,911</u>
Total Cash Receipts	\$15,864	\$25,153	\$13,975
Increase in Inventory	1,790	4,373	165
TOTAL FARM RECEIPTS	\$17,654	\$29,526	\$14,140
Farm Expenses:			
Feed bought	\$ 3,631	\$ 4,742	\$ 4,456
Hired labor	1,102	2,459	1,375
Machinery repairs & auto	784	1,123	793
Gas and oil	625	857	544
Milk hauling	237	271.	184
Dairy expense	61i	792	595
Fertilizer and lime	578	880	<b>52</b> 6
Other crop expense	461	802	430
Livestock bought	485	1,044	612
Building repairs	318	41.4	474
Miscellaneous	1,051	<u> 1,661</u>	1,116
Total Cash Operating	\$ 9,883	\$15,045	\$11,105
New machinery	1,584	2,585	1,089
New buildings	678	1,031	665
Unpaid labor	252	<u> 151</u>	<u>370</u>
TOTAL FARM EXPENSES	\$12,397	\$18,812	\$13,229
Financial Summary:			
Total farm receipts	\$17,654	\$29,526	\$14,140
Total farm expenses	12,397		13,229
Farm Income	\$ 5,257	18,812 \$10,714	\$ 911
5% on Av. Capital	1,985	2,576	2,320
Labor Income per Farm	\$ 3,272	2,576 \$ 8,138	2,320 \$-1,409
Number of Operators	390	21	20
LABOR INCOME per Operator	\$ 2,870	\$ 7,751	\$-1,409

COMPARISON OF FARM BUSINESS FACTORS OF 20 FARMS WITH HIGHEST LABOR INCOMES AND THE 20 FARMS WITH LOWEST LABOR INCOMES 342 New York Dairy Farms, 1956

	A	A	O A
	Average of		
	the 342	Highest	Lowest
Marin Dandarana Harbaras	farms	labor incomes	labor incomes
Farm Business Factors:			
Size:			
Man equivalent	1.8	2.2	1.8
Average number cows	34	43	30
Pounds of milk sold(3.7% equiv.)	302,505	434,910	265,738
Total crop acres	98	145	75
Total man work units	57 <b>5</b>	769	524
TO OCCI. MEAN WOLL WITH THE	717	(0)	)27
Rates of Production:			
Lbs. milk sold per cow	8,897	10,114	8,858
Tons hay per acre	2.1	2.5	2.0
Tons corn silage per acre	10	10	11
Bushels oats per acre	52	60	48
T. I. TOOL I was and			
Labor Efficiency:			
Man work units per man	319	350	291
Lbs. milk sold per man (3.7%)	168,100	197,686	147,632
Use of Capital:	4		•
Total capital per man	\$22,554	\$24,412	\$25,826
Total capital per cow	1,194	1,249	
Land & buildings per cow	556		1,550
Machinery investment:	7,70	525	872
per man	4,688	E 1:00	). (77
per cow	248	5,492 281	4,677
por com	240	201	281
Feed Costs:			
Dairy feed bought per cow	<b>\$</b> 96	\$98	\$114
% Feed bought was of milk receipts	26%	23%	31%
Crop acres per cow	2.9	3.4	2.5
Fertilizer & lime expense/crop acr	e \$6	\$6	\$7
Hay equivalent harvested per cow	5.0	7.0	5.1
Number heifers per 10 cows	5.9	4.7	5.7
		. ,• ,	7•1
Machinery Costs:	_ 		
Total machinery cost	\$3,225	\$4,398	<b>\$3,33</b> 0
Machinery cost per cow	95	102	111
Machinery cost per man	1,792	1,999	1,850
Prices:			
Av. price received for milk (3.7%)	\$4.18	di ol	Al. mm
:::• price received for milk (3.16)	Ф4•ТО	\$4.24	\$4.11
Other			
% Real estate is of total capital	) i =201	1.00	
% Expenses are of receipts	47%	42%	56%
% Machinery cost is of total farm	70%	64%	94%
expenses & interest on investmen	n+ 001	and	
expenses a interest on investmen	nt 22%	23%	25%

CCMPARISON OF SELECTED FARM BUSINESS FACTORS FOR 1956 10 County Farm Business Management Summaries

	Cayuga		go County*	Delaware	Essex
Item	County	Group I	Group II	County	County
Number of farms	22	35	27	33	16
Things to work with:					
Number of cows	28	36	34	35	28
Number of helfers	22	23	15	19	22
Acres of hay	54	66	48	55	61
Acres of corn silage Acres of oats	12	14	13	6 4	17
	23	15	7	4 74	10
Total crop acres	147	100	69	(4	121
Size of business:					
Man equivalent	1.9	1.8	1.7	1.6	2.1
Total work units	630	628	542	554	524
Cwt. milk sold	2,751	3,136	3,005	3,145	2,156
Rates of production:					
Lbs. milk sold/cow	9,824	8,710	8,837	8,986	7,699
Tons hay/acre	2.4	1.9	2.1	1.9	1.9
Tons corn silage/acre	12	8	10	12	6
Bu. oats/acre	60	55	48	41	39
Work per man:					
Number cows/man	15	20	20	22	13
Work units/man	332	349	319	346	250
Cwt. milk sold/man	1,448	1,742	1,767	1,966	1,027
Financial summary:					
Average capital	\$44,334	\$37,536	\$36,505	\$32,939	\$41,970
Total farm receipts	19,639	19,171	17,056	17,527	16,571
Total farm expenses	12,849	14,121	12,704	12,756	10,348
LABOR INCOME/Operator	4,375	2,583	2,353	2,946	3,666
Cost control factors:					
Machinery investment	\$ 9,339	\$ 7,864	\$ 7,217	\$ 6,400	\$10,886
Machinery cost	4,129	3,209	2,882	2,637	3,637
Machinery cost/cow	147	89	85	75	130
Feed bought/cow	\$66	\$1.04	\$120	\$135	\$77
Fertilizer/crop acre	<b>\$5.8</b> 3	\$7.10	\$6.87	\$6.72	\$3.43
% Expenses are of receipts	65%	74%	74%	73%	62%
Av. price/cwt, milk	\$4.16	\$4.20	\$4.18	\$4.18	\$4.12
The state of the s	y i a more	4.100	y 1 2 m 0	4.040	4.0

<sup>\*</sup>Group I are second year cooperators; Group II are first year

COMPARISON OF SELECTED FARM BUSINESS FACTORS FOR 1956 (Cont.)
10 County Farm Business Management Summaries

Item	Madison County	Montgomery- Fulton Cos*		_	Schoharie County
				<del></del>	<del></del>
Number of farms	56	46	31	45	. 31
Things to work with:	AFART AMERICA		1.	ري برپ	· · · · · · · · · · · · · · · · · · ·
Size of business:				-	and the same
Man equivalent	2.0	1.7	1.5	1.7	1.9
Total work units	665	552	494	, ,	
Cwt. milk sold	3,669	2,870	2,844	2,822	2,977
Rates of production:			•	e. wish	Company of the compan
Lbs. milk sold/cow	9,407	8,696	9,174	8,818	9,021
Tons hay/acre	2.7	1.7	2.6	2.1-	1.6
Tons corn silage/acre	10	. 8	10	9.	10
Bu. oats/acre	59	42	57	-47-	: # ~ [ <b>3</b> 6
Trans					AND MAKE THE STREET
Work per man:	20	30	21	19	17
Number cows/man Work units/man	332	19 325	329		294
Cwt. milk sold/man	1,834	1,688		•	1,567
Owos milk som/man	±,00∓	1,000	1,090	ا صادرید ا	ا ∨روست
Financial summary:					
Average capital	\$45,101	\$40,871	\$35,764	\$38,486	-\$41,898
Total farm receipts	20,737	15.801	14.693	16.047	18,190
Total farm expenses	13,650	10,883	9,424	12,046	14,002
LABOR INCOME/Operator	3,656	2,404	3,083	2,035	2,028
Cost control factors:					
Machinery investment	\$9,341	\$0 Jino	47 NA	· 40 non	<b>\$8,739</b>
Machinery cost	3,647	3,346			- 3,231
Machinery cost/cow	93	101			98
				•	
Feed bought/cow	\$80	\$76			\$111
Fertilizer/crop acre	\$6.18		\$7.89		= \$6.34
# Expenses are of receipts	66%	69%	649	759	77%
Av. price/cwt. milk	\$4.03	\$4.23	\$4.16	\$4.14	\$4.23
				•	

<sup>\*</sup>Montgomery and Fulton Counties included in same summary

COMPARISON OF SELECTED FARM BUSINESS FACTORS FOR 1956
From 10 County Summaries Not In Farm Business Management Projects\*

Item	Catta- raugus	Chau- tauqua	Columbia	Dutchess	Herkimer	Jefferson	Ontario	Rensselaer	St. Lawrence	Wyoming
Number of farms	30	16	15	30	.39	27	21	39	57	50
Things to work with:										
Number of cows	27	33 48	31	43	<b>3</b> 6	35 81,	30	31	29	35
Acres of hay	na		na	82	63		48	54	29 55 83	52
Total acres of crops	<b>7</b> 5	84	na	144	98	126	146	105	83	121
Size of business:										
Man equivalent	1.5	1.8	1.6	2.1	1.7	1.9	2.0	1.8	1.6	2.0
Cwt. milk sold	2,516	2,765	2,755	4,163	3,251	2,934	3,008	2,822	2,465	3,265
Rates of production:										
Lbs. milk sold/cow	9,150	8,379	8,463	9,586	9,032	8,381	10,027	9,102	8,498	9,329
Tons hay/acre	na	2,1	2.1	2.1	2.0	1.6	2.5	2.2	2.0	2.5
Work per man:										
Number of cows/man	19	18	21	20	21	22	15	17	18	18
Cwt. milk sold/man	1,708	1,536	1,722	1,982	1,913	1,830	1,504	1,568	1,540	1,632
Cost Control factors:										
% Feed bought is										
of milk sales	23%	28%	21%		25%			20%		21%
Machinery cost/cow % Expenses are of \	\$75	\$94	\$87	na	\$84	\$72	\$148	\$106	\$80	\$137
receipts	71%	77%	73%	77%	72%	67%	67%	73%	72%	71%
inancial summary:								•		•
Average capital	\$35,310	\$36,946	\$39,713	\$64,000	\$37,288	\$31,961	\$47,569	\$37,978	\$28,533	\$50,580
Total farm receipts	\$16,610	\$16,383	\$16,762	\$27,541	\$17,905	\$14,034	\$23,618	\$17,843	\$13,167	\$23,611
Total farm expenses	\$11,832		\$12,184	\$21,313	\$12,875	\$ 9,357		\$13,055	\$ 9,459	\$16,667
Labor income/operator			\$ 2,592	\$ 3,028	\$ 3,165	\$ 2,867		\$ 2,889	\$ 2,016	\$ 3,504
and operator	ر غه∪ و غنه ع	Ψ 1,100	Ψ -9/3-	Ψ 5,020	Ψ 5,207	Ψ 2,001	Ψ <sup>〒</sup> , エノノ	ψ 2,009	Ψ 2,010	φ 3,504

<sup>\*</sup>County Agricultural Agents in these counties obtained farm business information from farmers in the counties, and prepared someory reports for use with the cooperators and others in discussing farm business management problems.

na - Not available

## COMPARISON OF BUSINESS FACTORS OF NEW YORK DAIRY FARMS WITH HIGH AND VERY HIGH RATES OF PRODUCTION, 1956

And the second s	Amount	per farm	and the second s
Factor	50 high* production farms	32 very high** production farms	Average all 342 farms
Size:			
Man equivalent Number of cows Pounds 3.7% milk sold Total crop acres	1.9	1.9	1.8
	36	33	3 <sup>1</sup> 4
	377,740	382,250	302,506
	110	98	98
Total work units	629	572	5 <b>75</b>
Total product units	74	72	59
Rates of Production: Pounds 3.7% milk sold per cow Tons hay per acre Tons corn silage per acre Bushels of oats per acre	10,493	11,583	8,897
	2.5	2.5	2.2
	11.9	12.3	10
	57	58	50
Labor Efficiency: Number of cows per man Pounds milk sold per man Work units per man Product units per man	19	17	19
	198,810	201,184	168,059
	331	301	319
	39	38	33
Capital Investment: Land and buildings	\$19,960	\$19 <b>,</b> 844	\$18,906
Machinery Cattle Other livestock Feed and supplies Total	9,848	9,106	8,438
	11,232	11,091	9,676
	220	189	182
	4,346	<u>3,647</u>	<u>3,396</u>
	\$45,606	\$43,877	\$40,598
Financial Summary: Average capital investment Farm receipts Farm expenses	\$44,520	\$43,625	\$39,705
	22,158	20,834	17,654
	14,974	_14,981	12,397
Farm income	\$ 7,184	\$ 5,853	\$ 5,257
Interest on capital at 5%	2,226	2,181	1,985
Labor income per farm	\$ 4,958	\$ 3 <b>,</b> 672	\$ 3,272
Number of operators	57	37	390
Labor income per operator	\$ 4,349	\$ 3,176	\$ 2 <b>,</b> 869

<sup>\*10,000</sup> to 10,999 pounds of milk sold per cow

<sup>\*\*11,000</sup> and over pounds of milk sold per cow

Source: Unpublished thesis, Jack A. Smith, Cornell University, 1959

COMPARISON OF FARM RECEIPTS AND EXPENSES OF NEW YORK DAIRY FARMS WITH HIGH AND VERY HIGH RATES OF PRODUCTION, 1956

	Amoun	t per farm	
Item	50 high production farms	32 very high production farms	Average all 342 farms
Farm Receipts:			
Milk sales	\$15,806	\$15,684	\$12,600
Livestock sales	1,462	1,919	1,259
Crop sales	812	612	429
Other	1,882	1,759	1,576
Total cash receipts	\$19,962	\$19,974	\$15,864
Increase in inventory	2,196	860	1,790
Total farm receipts	\$22,158	\$20,834	\$17,654
Farm Expenses:			
Dairy feed bought	\$ 3 <b>,</b> 838	\$ 4,556	\$ 3,250
Other feed bought	369	542	420
Gas and oil	762	622	625
Machinery expense	708	817	641
Auto expense (farm share)	158	167	143
Machine work hired	158	191	118
Fertilizer and lime	810	875	578
Other crop expenses	436	312	343
Building repairs	388	434	318
Livestock bought	413	711	485
Dairy expense	1,016	1,247	808
Labor hired	1,510	1,388	1,103
Miscellaneous expense	1,320	1,141	1,051
Total cash operating expense	\$11,886	\$13,003	<b>\$ 9,88</b> 3
New machinery	2,082	1,531	1,584
New buildings	788	216	678
Unpaid family labor	218	231	252
Total farm expense	\$14,974	\$14,981	\$12,397

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COMPARISON OF SELECTED FACTORS RELATED TO FEED COST 342 New York Dairy Farms, 1956

	Amount		
Item	50 high production farms		Average all farms
Purchased feed:			
Dairy feed bought Feed bought per cow Feed bought per 100 pounds milk sold Feed bought as per cent of milk receipts	\$3,838 \$107 \$1.02 24%	\$4,556 \$138 \$1.19 29%	\$3,250 \$96 \$1.07 2 <i>6%</i>
Roughage harvested (Hay equivalent):  Hay (tons) Grass silage (tons divided by 3) Corn silage (tons divided by 3) Total tons hay equivalent Tons hay equivalent per cow	13 <sup>4</sup> 4 59 197 5•5	115 19 53 187 5•7	117 9 43 169 5.0
Acres in crops Crop acres per cow Fertilizer and lime expense Fertilizer and lime expenses per crop acre Fertilizer and lime expenses per cow Number of cows Number of heifers Number of heifers per 10 cows	110 3.1 \$810 \$7.36 \$22.50 36 23 6.4	98 3.0 \$875 \$8.93 \$26.52 33 19	98 2.9 \$578 \$5.90 \$17.00 34 20 5.9

FINANCIAL SUMMARY
32 Very High Production New York Dairy Farms, 1956

		Amount per farm			
Item	Average 32 farms	Bottom one-third by labor income	Middle one-third by labor income	Top one-third by labor income	
Average capital investment Farm receipts Farm expenses	\$43,625 20,834 14,981	\$50,818 19,018 15,363	\$34,000 17,420 12,330	\$45,182 25,754 17,009	
Farm income	\$ 5,853	\$ 3,655	\$ 5,090	\$ 8,745	
Interest on capital at 5%	\$ 2,181	\$ 2,541	\$ 1,700	\$ 2,259	
Labor income per farm Number of operators	\$ 3,672 37	\$ 1,114 14	\$ 3,390 11	\$ 6,486 12	
Labor income per operator	\$ 3,176	\$ 878	\$ 3,082	\$ 5,946	

FINANCIAL SUMMARY
50 High Production New York Dairy Farms, 1956

		Amount per farm			
Item	Average 50 farms	Bottom one-third by labor income	Middle one-third by labor income	Top one-third by labor income	
Average capital investment Farm receipts Farm expenses	\$44,520 22,158 14,974	\$39,529 17,735 13,276	\$44,062 21,750 14,450	\$49,941 26,965 17,165	
Farm income	\$ 7,184	\$ 4,459	\$ 7,300	\$ 9,800	
Interest on capital at 5%	2,226	1,976	2,203	2,497	
Labor income per farm Number of operators	\$ 4,958 57	\$ 2,483 19	\$ 5,097 19	\$ 7,303 19	
Labor income per operator	\$ 4,349	\$ 2,222	\$ 4,292	\$ 6,534	

SELECTED FACTORS RELATED TO FEED COST 32 Very High Production New York Dairy Farms, 1956

	Average 32 farms	Average per farm		
Item		Bottom one-third by labor income	Middle one-third by labor income	Top one-third by labor income
Purchased feed:				
Dairy feed bought Feed bought per cow Feed bought per 100 lbs.	\$4,556 \$138	\$5,200 \$158	\$4,150 \$1.48	\$4,282 \$113
milk sold Feed bought as per cent	\$1.19	\$1.38	\$1.28	\$•97
of milk receipts	29%	33%	31%	24%
Roughage harvested:				
Tons hay equivalent per cow	5.2	5.2	5.0	5.2
Crop acres per cow Fertilizer and lime expense Fertilizer and lime expense	3.0 \$875	2.8 \$636	2 <b>.</b> 2 \$790	3.6 \$1,191
per cow	\$26.52	\$19.27	\$28.21	\$31.34
Number of cows Heifers per 10 cows	33 5 <b>.</b> 8	33 6.4	28 5•7	38 5•3

SELECTED FACTORS RELATED TO FEED COST 50 High Production New York Dairy Farms, 1956

		Average per farm		
Item	Average 50 farms	Bottom one-third by labor income	Middle one-third by labor income	Top one-third by labor income
Purchased feed:				
Dairy feed bought Feed bought per cow Feed bought per 100 lbs.	\$3,838 \$107	\$3,682 \$115	\$3,781 \$108	\$4,047 \$96
milk sold Feed bought as per cent	\$1.02	\$1.11	\$1.06	\$.94
of milk receipts	24%	27%	25%	22%
Roughage harvested:				
Tons hay equivalent per cow	5•5	5•4	5•3	5•5
Crop acres per cow Fertilizer and lime expense Fertilizer and lime expense	3 <b>.</b> 1 \$810	3 <b>.1</b> \$788	3•2 \$694	2.9 \$941
per cow Number of cows	\$22.50 36	\$24.62 32	\$19 <b>.</b> 83 35	\$22.40 42
Heifers per 10 cows	6 <b>.</b> 4	6 <b>.</b> 6	6 <b>.</b> 3	6 <u>.</u> 2

COST CONTROL 83 New York Dairy Farms, 1956

	40	Bottom	Middle	Top	
Feed bought per cow Feed bought per 10,000 lbs. milk sold Machinery expense per 10,000 lbs. milk sold Crop expense per 10,000 lbs. milk sold Dairy expense per 10,000 lbs.	\$138	\$158	\$148	\$113	
	\$119	\$138	\$128	\$ 97	
	\$ 42	\$ 48	\$ 35	\$ 42	
	\$ 36	\$ 27	\$ 36	\$ 44	
		\$ 35	\$ 37	\$ 28	
milk sold Miscellaneous expense per	\$ 33	φ 37	Ψ 31	ψωυ	
10,000 lbs. milk sold	\$ 30	\$ 32	\$ 26	\$ 31	
Feed bought as per cent of milk receipts	29%	33%	31%	24%	
Machinery expense as per cent of milk receipts	10%	11%	8%	10%	
Crop expense as per cent of milk receipts	9%	6%	9%	11%	
Dairy expense as per cent of milk receipts	8%	8%	9%	7%	
	50 high production farms				
Feed bought per cow Feed bought per 10,000 lbs.  milk sold Machinery expense per 10,000 lbs. milk sold Crop expense per 10,000 lbs.  milk sold Dairy expense per 10,000 lbs.  milk sold Miscellaneous expense per 10,000 lbs. milk sold Feed bought as per cent of milk receipts Machinery expense as per cent of milk receipts Crop expense as per cent of milk receipts Dairy expense as per cent of milk receipts	\$107	\$115	\$108	\$ 96	
	\$102	\$111	\$106	\$ 94	
	\$ 43	\$ 44	\$ 42	\$ 43	
		•	,		
	\$ 37	\$ 40	\$ 32	\$ 39	
	\$ 27	\$ 31	\$ 26	\$ 25	
	\$ 35	\$ 38	\$ 32	\$ 35	
	24%	27%	25%	22%	
	10%	11%	10%	10%	
	•		•	•	
	9%	10%	8%	9%	
	6%	7%	6%	6%	