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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.

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## 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

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	Number		Re	ange
Item	reporting	Average*	Low	High
Labor:				
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	т <sup>а</sup> О	70
Bulls	(174 farms)	1.4	1.0	6.5
Hens	(108 farms	255	3	3250
Crops: (Acres grown)	-	4 - A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A		н. 
Hay		56	5	300
Grass silage	( 87 farms	4	2	72
Corn for grain	(71 farms)	12	l	5 <b>5</b>
Corn for silage	(300 farms)	13	3	67
Oats	(254 farms)	13	l	55
Total cropland	,	98	26	370

\*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.

	Amount	per farm	Amount p	er cow
Item	Av. 342	Your	Av. 342	Your
	larms	Iarm	Iarms	Iarm
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 <b>,</b> 598	\$	\$ 1,194	\$

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

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.

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

LABOR INCOMES 342 New York Dairy Farms, 1956

"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

342	FARM RECEIPTS New York Dairy Far	ms, 1956	
Eggs sold		508	3
Crop sales	And the state gradient constrained and a state	429	3
Miscellaneous*	And the second	1,068	7
Total cash receipts	\$	\$15,864	100
Increase in inventory	 	1,790	
TOTAL FARM RECEIPTS	\$	\$17,654	

\*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.

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#### 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.

Item	Your farm	Average of 342 farms	Per cent of total
Dairy feed bought	\$	\$ 3,250	33
Other feed bought		381	14
Hired labor V		1,102	11
Dairy & poultry expense*		848	. 9
Gas and cil		625	6
Machinery repairs, etc.		641	7
Auto expense (farm share)	4	143	l
Machine hire		118	l
Fertilizer and lime		578	6
Seeds		224	2
Other crop expenses	Programming and a state	119	1
Building repairs, etc.		318	3
Livestock bought	autoregy vegative - the stars	485	5
Miscellaneous**		1,051	11
Total cash operating	\$	\$ 9,883	100
New machinery	<b></b>	1,584	
New buildings		678	
Unpaid family labor		252	
Decrease in inventory			
TOTAL FARM EXPENSE	\$	\$12,397	

FARM EXPENSES 342 New York Dairy Farms, 1956

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

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#### 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		анандан жалайда байн түүнөн түүнөн <u>түүнөн түүнөн</u> түүнөн түүнөн түүнөн түүнөн түүнөн түүнөн түүнөн түүнөн түүнөн
Dairy feed bought	\$	\$3,250
Feed bought per cow	\$	\$96
Feed bought per Cwt. milk sold	\$	\$1.07
Feed bought as % of milk receipts		_% 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		2.9 acres
Lime and fertilizer expense per cow	\$	\$17
Lime and fertilizer expense per crop acre	\$	\$6
Number of heifers per 10 cows	<b></b>	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 342 farms		
Item	Your farm	Amount	Per cent	
Beginning inventory	\$	\$7,971		
New machinery bought		1,584		
Total	\$	\$9,555		
End inventory	\$	\$8,438		
Machinery sold	anny-year Fillip Management avera brand	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	4	
Total machinery cost	\$	\$3,225	100	
Machinery cost per cow	\$	\$95		
Machinery cost per crop acre	\$	\$33		
Machinery cost per work unit	\$	\$5.	61	
Machinery cost per man	\$	\$1,792		

\*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

Item	Your farm	Average 342 farms
Man equivalent		1.8
Number of cows		34
Pounds 3.7% milk sold		302,505
Total crop acres	· ·	98
Total work units*		575

\*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. M	ilk Sold	Labor income
COWS	of farms	per cow	per man	per operator
Under 20 20-29 30-39 40-49 50-over	37 101 125 45 34	8,470 8,760 9,050 9,420 8,950	117,300 157,500 174,000 216,200 206,700	\$1,400 2,800 3,000 3,400 3,900

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

## RATES OF PRODUCTION 342 New York Dairy Farms, 1956

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.

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	36	206,100	4,370
11,000-over	32	33	212,100	3,220

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

_ ••J	 Average	
Work units per man	319	

## LABOR EFFICIENCY 342 New York Dairy Farms, 1956

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 milk sold per man	Number of farms	Number of cows	Lbs. Milk sold per cow	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	8,390	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

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

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"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.

 Item	Your farm	Average for 342 farms	<del></del>
% feed bought is of milk receipts	%	26%	
Feed bought per cow	\$	\$96	
Fertilizer & lime cost per cow		17	
Machinery repairs per cow	and a state of the	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	and and a set of the s	5.90	
Gas & oil per crop acre	and the association of a state of the state	6.38	
Taxes per crop acre		4.27	
% expenses are of receipts	%	70%	

## COST CONTROL MEASURES 342 New York Dairy Farms, 1956

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

## COMPARISON OF EUSINESS 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 20 fa		O farms with:	
	the 342	Highest	Lowest	
	farms	Labor incomes	labor incomes	
Capital Investment (End of year):				
Land and buildings Cattle Machinery Feed and supplies Other TOTAL END INVENTORY	\$18,906 9,676 8,438 3,396 <u>182</u> \$40,598	\$22,568 11,977 12,082 6,876 204 \$53,707	\$26,153 8,859 8,419 2,847 <u>209</u> \$46,487	
Farm Receipts:				
Milk sales Livestock sold All other sales Total Cash Receipts Increase in Inventory TOTAL FARM RECEIPTS	\$12,600 1,259 2,005 \$15,864 1,790 \$17,654	\$18,442 2,019 4,692 \$25,153 4,373 \$29,526	\$10,927 1,137 <u>1,911</u> \$13,975 <u>165</u> \$14,140	
Farm Expenses:				
Feed bought Hired labor Machinery repairs & auto Gas and oil Milk hauling Dairy expense Fertilizer and lime Other crop expense Livestock bought Building repairs Miscellaneous Total Cash Operating New machinery New buildings Unpaid labor TOTAL FARM EXPENSES	<pre>\$ 3,631 1,102 784 625 237 611 578 461 485 318 1,051 \$ 9,883 1,584 678 252 \$12,397</pre>	$     $     4,742     2,459     1,123     857     271     792     880     802     1,044     414     1,661     $15,045     2,585     1,031     151     $18,812     $18,812     } $	$     $     4,456     1,375     793     544     184     595     526     430     612     474     1,116     $11,105     1,089     665     370     $13,229     }   $	
Financial Summary:				
Total farm receipts Total farm expenses Farm Income 5% on Av. Capital Labor Income per Farm	\$17,654 12,397 \$ 5,257 1,985 \$ 3,272	\$29,526 <u>18,812</u> \$10,714 <u>2,576</u> \$ 8,138	\$14,140 <u>13,229</u> \$ 911 <u>2,320</u> \$-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

	Average of	Average of 2	0 farms with
	the 342	Hignest labor incomes	LOWEST
Farm Business Factors:	101 110	Incomes	
Size:			
Man equivalent	1.8	2.2	1.8
Average number cove	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	575	769	524
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
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:			
Total capital per man	\$22,554	\$24,412	\$25,826
Total capital per cow	1,194	1,249	1,550
Land & buildings per cow	556	525	872
Machinery investment:			
per man	4,688	5,492	4,677
per cow	248	281	281
Feed Costs:			
Dairy feed bought per cow	\$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 hellers per 10 cows	5.9	4.7	5.7
Machinery Costs:	- #2.005	th <b>6</b> -0	
Machinery cost	\$3,225	\$4,398	\$3,330
Machinery cost per cow	295	102	111
Machinery cost per man	1,792	1,999	1,850
Av. price received for milk (2 7%)	eh 19	ф), <b>с</b> ),	<u>مار الم</u>
() price received for mile (3. (%)	фн•то	<b>ф4 •</b> 24	\$4.11
Other			
p neal estate is of total capital	47%	42%	56%
<pre>% Expenses are of receipts % Machinery cost is of total form</pre>	70%	64%	94%
expenses & interest on investment	nt 22%	23%	25%

Item	Cayuga County	Chenang Group I	o County* Group II	Delaware County	Essex
Number of farms	22	35	<u>27</u>	33	16
Things to work with:					
Number of cows Number of helfers Acres of hay Acres of corn silage Acres of oats Total crop acres	28 22 54 12 23 147	36 23 66 14 15 100	34 15 48 13 7 69	35 19 55 6 4 74	28 22 61 17 10 121
Size of business:					
Man equivalent Total work units Cwt. milk sold	1.9 630 2,751	1,8 628 3,136	1.7 542 3,005	1.6 554 3,145	2.1 524 2,156
Rates of production:					
Lbs. milk sold/cow Tons hay/acre Tons corn silage/acre Bu. oats/acre	9,824 2.4 12 60	8,710 1.9 8 55	8,837 2.1 10 48	8,986 1.9 12 41	7,699 1.9 6 39
Work per man:					
Number cows/man Work units/man Cwt. milk sold/man	15 332 1,448	20 349 1,742	20 319 1,767	22 346 1,966	13 250 1,027
Financial summary:					
Average capital	\$44,334	\$37,536	\$36,505	\$32,939	\$41,970
Total farm receipts Total farm expenses	19,639 12,849	19,17 <b>1</b> 14,121	17,056 12,704	17,527 12,756	16,571 10,348
LABOR INCOME/Operator	4,375	2,583	2,353	2,946	3,666
Cost control factors:					
Machinery investment Machinery cost Machinery cost/cow	\$ 9,339 4,129 147	\$ 7,864 3,209 89	\$ 7,217 2,882 85	\$ 6,400 2,637 75	\$10,886 3,637 130
Feed bought/cow Fertilizer/crop acre	\$66 \$5.83	\$104 \$7.10	\$120 \$6.87	\$135 \$6.72	\$77 <b>\$3.</b> 43
% Expenses are of receipts	65%	74%	74%	73%	62%
Av. price/cwt. milk	\$4.16	\$4.20	\$4.18	\$4.18	\$4.12

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

\*Group I are second year cooperators; Group II are first year

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Iten	Madison County	Montgomery- Fulton Cos*	Oneida County	Otsego County	Schoharie County
Number of farms	56	46	- 31	45	31
Things to work with:			 	··· •••	···
Size of business: Man equivalent Total work units Cwt. milk sold	2.0 665 3,669	1.7 552 2,870	1.5 494 2,844	1.7 534 2,822	1.9 560 2,977
Rates of production: Lbs. milk sold/cow Tons hay/acre Tons corn silage/acre Bu. oats/acre	9,407 2.7 10 59	8,696 1.7 8 42	9,174 2.6 10 57	8,818- 2,1- -9. -47-	9,021 - 1.6 10 - 36
Work per man: Number cows/man Work units/man Cwt. milk sold/man	20 332 1,834	19 325 1,688	21 329 1,896	19 314 1,660	17 294 1,567
Financial summary: Average capital	\$45,101	\$40,871	\$35,764	\$38,486	-\$41,898
Total farm receipts Total farm expenses	20,737 13,650	15,801 10,883	14,693 9,424		18,190 14,002
LABOR INCOME/Operator	3,656	2,404	3,083	2,035	2,028
Cost control factors: Machinery investment Machinery cost Machinery cost/cow	\$9,341 3,647 93	<b>\$9,</b> 490 3,346 101	\$7,260 2,693 87	\$8,207 2,999 94	\$8,739 - 3,231 - 98
Feed bought/cow Fertilizer/crop acre	\$80 \$6.18	\$76 \$3 <b>-</b> 95	- \$83 \$7,89	\$101° \$5,72-	
% Expenses are of receipts	66%	, 699	649	5 759	77%
Av. price/cwt. milk	\$4.03	\$4.23	\$4,16	\$4.14	\$4.23

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

\*Montgomery and Fulton Counties included in same summary

T+ em	Catta-	Chau-	Columbia	Dutchese	Herkimer	Jefferson	Onterio	Renselser	St Intronco	Laromtro
Number of ferms	30	16	15	30	30	27	21	30	57	wyoming
Muniber Of Tarms	0	10	±)		<i>ر</i> ر .	-1	<u></u>	75	71	50
Things to work with: Number of cows Acres of hay Total acres of crops	27 na 75	33 48 84	31 na na	43 82 144	36 63 98	35 81 126	30 48 146	31 54 105	29 55 83	35 52 121
Size of business: Man equivalent Cwt. milk sold	1.5 2,516	1.8 2,765	1.6 2,755	2.1 4,163	1.7 3,251	1.9 2,934	2.0 3,008	1.8 2,822	1.6 2,465	2.0 3,265
Rates of production: Lbs. milk sold/cow Tons hay/acre	9,150 na	8,379 2,1	8,463 2.1	9,586 2,1	9,032 2.0	8,381 1.6	10,027 2.5	9,102 2.2	8,498 2.0	9,329 2,5
Work per man: Number of cows/man Cwt. milk sold/man	19 1,708	18 1,536	21 1,722	20 1,982	21 1,913	22 1,830	15 1,504	17 1,568	18 1,540	18 1,632
Cost Control factors: % Feed bought is of milk sales Machinery cost/cow	235 \$75	28% \$94	21% \$87	25% na	- 25 <b>%</b> \$84	24% \$72	17% \$148	20% \$106	30% \$80	21% \$137
receipts	71%	77%	73%	77%	72%	67%	67%	73#	72%	%ב7
Financial summary: Average capital	\$3 <b>5,</b> 310	\$36,946	\$39 <b>,</b> 713	\$64,000	\$37,288	\$31 <b>,</b> 961	\$47,569	\$37,978	\$28,533	\$50,580
Total farm receipts Total farm expenses	\$16,610 \$11,832	\$16,383 \$12,589	\$16,762 \$12,184	\$27,541 \$21,313	\$17,905 \$12,875	\$14,034 \$ 9,357	\$23,618 \$15,897	\$17,843 \$13,055	\$13,167 \$ 9,459	\$23,611 \$16,667
Labor income/operator	\$2,825	\$ 1,768	\$ 2,592	\$ 3,028	\$ 3,165	\$ 2,867	\$ 4,155	\$ 2,889	\$ 2,016	\$ 3,504

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

\*County Agricultural Agents in these counties obtained farm business information from farmers in the counties, and prepared Summary reports for use with the cooperators and others in discussing farm business management problems. na - Not available

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## CAB:58:112

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

	Amount		
Factor	50 high*	32 very high**	Average
	production	production	all
	farms	farms	342 farms
Size:	1.01.110		
Man equivalent	1.9	1.9	1.8
Number of cows	36	33	34
Pounds 3.7% milk sold	377,740	382,250	302,506
Total crop acres	110	98	98
Total work units	629	572	575
Total product units	74	72	59
Rates of Production:			
Pounds 3.7% milk sold per cow	10,493	11,583	8,897
Tons hay per acre	2.5	2.5	2.2
Tons corn silage per acre	11.9	12.3	10
Bushels of oats per acre	57	58	50
Labor Efficiency:			
Number of cows per man	19	17	19
Pounds milk sold per man	198,810	201,184	168,059
Work units per man	331	301	319
Product units per man	39	38	33
Capital Investment:			
Land and buildings	\$19,960	\$19,844	\$18,906
Machinery	9,848	9,106	8,438
Cattle	11,232	11,091	9,676
Other livestock	220	<u>189</u>	182
Feed and supplies	4,346	<u>3,647</u>	<u>3,396</u>
Total	\$45,606	\$43,877	\$40,598
Financial Summary:			
Average capital investment	\$44,520	\$43,625	\$39,705
Farm receipts	22,158	20,834	17,654
Farm expenses	14,974	14,981	12,397
Farm income	\$ 7,184	\$ 5 <b>,85</b> 3	\$ 5,257
Interest on capital at 5%	2,226	2,181	1,985
Labor income per farm	\$ 4,958	\$ 3,672	\$ 3,272
Number of operators	57	37	390
Labor income per operator	\$ 4,349	\$ 3,176	\$ 2 <b>,</b> 869

\*10,000 to 10,999 pounds of milk sold per cow \*\*11,000 and over pounds of milk sold per cow Source: Unpublished thesis, Jack A. Smith, Cornell University, 1959

## CAB: 58:113

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

	Amour	nt per farm	
Item	50 high production farms	32 very high production farms	Average all 342 farms
Farm Receipts:			
Milk sales Livestock sales Crop sales Other	\$15,806 1,462 812 1,882	\$15,684 1,919 612 1,759	\$12,600 1,259 429 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 Other feed bought Gas and oil Machinery expense Auto expense (farm share) Machine work hired	\$ 3,838 369 762 708 158 158	\$ 4,556 542 622 817 167 191	\$ 3,250 420 625 641 143 118
Fertilizer and lime Other crop expenses Building repairs Livestock bought Dairy expense Labor hired Miscellaneous expense	810 436 388 413 1,016 1,510 1,320	875 312 434 711 1,247 1,388 1,141	578 343 318 485 <b>808</b> 1,103 1,051
Total cash operating expense	\$11,886	\$13,003	\$ <b>9,8</b> 83
New machinery New buildings Unpaid family labor	2,082 788 8	1,531 216 231	1,584 678 252
Total farm expense	\$14,974	\$14,981	\$12,397

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

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	Amount		
Item	50 high	32 very high	Average
	production	production	all
	farms	farms	farms
Purchased feed:			
Dairy feed bought	\$3,838	\$4,556	\$3,250
Feed bought per cow	\$107	\$138	\$96
Feed bought per 100 pounds milk sold	\$1.02	\$1.19	\$1.07
Feed bought as per cent of milk receipts	24%	29%	26%
Roughage harvested (Hay equivalent):			
Hay (tons)	134	115	117
Grass silage (tons divided by 3)	4	19	9
Corn silage (tons divided by 3)	59	53	43
Total tons hay equivalent	197	187	169
Tons hay equivalent per cow	5•5	5•7	5.0
Acres in crops	110	98	98
Crop acres per cow	3.1	3.0	2.9
Fertilizer and lime expense	\$810	\$875	\$578
Fertilizer and lime expenses per crop acre	\$7.36	\$8.93	\$5.90
Fertilizer and lime expenses per cow	\$22.50	\$26.52	\$17.00
Number of cows	36	33	34
Number of heifers	23	19	20
Number of heifers per 10 cows	6.4	5.8	5.9

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

en en alle anderen en alle alle anderen en alle de la de			Amount per farm	1
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%	<u>\$ 2,181</u>	\$ 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 32 Very High Production New York Dairy Farms, 1956

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

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

	Average per farm		
Average 32 farms	Bottom one-third by labor income	Middle one-third by labor income	Top one-third by labor income
\$4,556 \$138	\$5,200 \$158	\$4,150 \$148	\$4,282 \$113
\$1.19	\$1.38	\$1,28	\$•97
29%	33%	31%	24%
5.2	5.2	5.0	5.2
3.0 \$875	2.8 \$636	2.2 \$790	3.6 \$1,191
\$26.52 33 5.8	\$19.27 33 6.4	\$28 <b>.21</b> 28 5•7	\$31.34 38 5.3
	Average 32 farms \$4,556 \$138 \$1.19 29% 5.2 3.0 \$875 \$26.52 33 5.8	Average 32Bottom one-third by labor income $32$ by labor income $32$ $5,200$ \$138\$4,556\$5,200 \$138\$1.19\$1.38 $29\%$ $33\%$ $5.2$ $5.2$ $3.0$ $2.8$ \$636\$875\$636\$26.52\$19.27 $33$ $5.8$ $6.4$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

## 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	<b>5.</b> 4	5•3	5.5
Crop acres per cow Fertilizer and lime expense Fertilizer and lime expense	3.1 \$810	3 <b>.1</b> \$788	3.2 \$694	2.9 \$941
per cow Number of cows	\$22.50 36	\$24.62	\$19 <b>.</b> 83	\$22.40
Heifers per 10 cows	6.4	6.6	6.3	6.2

COST CONTROL 83 New York Dairy Farms, 1956

		Bottom	Middle	Top
Feed bought per cow	\$138	\$158	<b>\$1</b> 48	\$113
Feed bought per 10,000 lbs.			1	•
milk sold	\$119	\$138	\$128	\$ 97
Machinery expense per	<b>a</b> ho	a),0	e ac	e 10
TU,000 IDS. MILK SOLD	\$ 42	<b>ֆ 40</b>	φ 32	<b>ቅ 4</b> 2
milk sold	\$ 36	\$ 27	\$ 36	\$ 44
Dairy expense per 10,000 lbs. milk sold	\$ 33	\$ 35	\$ 37	\$ 28
Miscellaneous expense per			1	4
10,000 lbs. milk sold	\$ 30	\$ 32	\$26	\$ 31
Feed bought as per cent	~~~	2 <b>2</b> 4	വർ	and
OI MILK receipts	29%	55%	31%	24%
of milk receipts	10%	11%	8%	10%
Crop expense as per cent	,-		-7	
of milk receipts	<b>9</b> %	6%	9%	11%
Dairy expense as per	~	~	<b>af</b>	
cent of milk receipts	8%	8%	9%	7%
		50 high a	production farm	2
				-
Feed bought per cow	\$107	\$115	\$108	\$ 96
Feed bought per 10,000 lbs.	• •			• •
milk sold	\$102	\$111	\$106	\$ 94
Machinery expense per		+ 1 1		
10,000 lbs. milk sold	\$43	\$ 44	\$ 42	\$43
crop expense per 10,000 lbs.	¢ 277	¢ 110	¢ 20	¢ 20
Dairy expense per 10 000 lbs.	φοί	φ 40	φ 34	ቅ ጋን
milk sold	\$ 27	\$ 31	\$ 26	\$ 25
Miscellaneous expense per	+ -i	Ŧ <u>J</u> =	Ŧ	Ŧ>
10,000 lbs. milk sold	\$ 35	\$38	\$ 32	\$35
Feed bought as per cent				
of milk receipts	24%	27%	25%	22%
Machinery expense as per cent	2.04	2.2.4	3.00	7.04
of milk receipts	10%	11%	10%	10%
of milk receipts	col.	1 col	9al	cod.
Dairy expense as per cent	TP	u U D D	Οp	710
of milk receipts	6%	7%	6%	6%
	-,-	11-	-1-	-1-