# Poultry Farm Business Summary 1980



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## 1980 NEW YORK POULTRY FARM BUSINESS SUMMARY

Large nonfarm businesses usually prepare and publish an annual report in which they review and analyze the business for the year. This provides a basis for evaluating past operations and for making plans for the future. A similar summary and analysis is useful in managing a farm business. The Cooperative Extension business management projects provide farm operators an annual business report which can be used much the same as nonfarm business annual reports.

Poultry farm business management records have been summarized by the College of Agriculture and Life Sciences at Cornell for a number of years. For the 1980 record year, 24 poultrymen submitted records for summary and analysis. Extension field staff working with poultrymen collected the figures for each farm and the College staff summarized them. The summary results are presented in this workbook.

Poultry farm businesses vary in organizational makeup. The farms included in this report were divided into two groups; poultry (egg production) only, and poultry and others which include those with other major enterprises such as crops, dairy or hogs.

The economic climate for poultrymen in 1980 was worse than 1979. Egg prices were lower in 1980. In addition, layer feed prices for 1980 averaged higher than 1979 and the cost of producing eggs was 9.3c higher in 1980. Many poultrymen therefore had negative labor incomes for 1980.

This workbook is designed to provide a systematic summarization and analysis of a poultry business. The group averages can be used in making comparisons. Working through this report step by step provides a good checkup for a poultry operation. In addition to the persons whose records are in the summary, this report should be useful to other poultrymen in the State, to teachers of agriculture, college farm management instructors, agency representatives, and to agribusiness persons.

#### Acknowledgements

This summary was prepared by D. L. Cunningham, Department of Poultry & Avian Sciences, New York State College of Agriculture and Life Sciences, in cooperation with Cooperative Extension Specialists S. E. Ackerman, A. Aja and W. J. Toleman. Myrtle Voorheis supervised the summarization of the records and Barbara Smagner typed this report.



# GOOD MANAGEMENT IS BASIC

## HOW DO YOU MEASURE UP



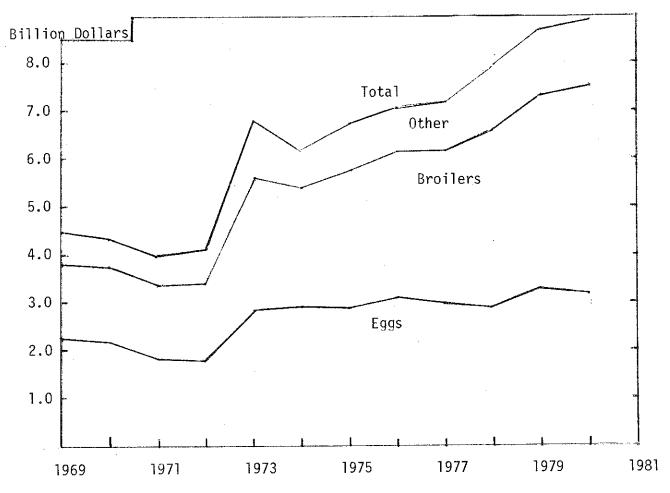
- 1. Have you developed a systematic approach to management problems?
- 2. Do you have the facts on your business?
- 3. Are you improving your managerial skills?

## Steps in making a management decision:

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

This workbook can help you!

# GROSS FARM INCOME FROM POULTRY AND EGGS United States, 1969-1980



SOURCE: USDA Poultry & Egg Situation

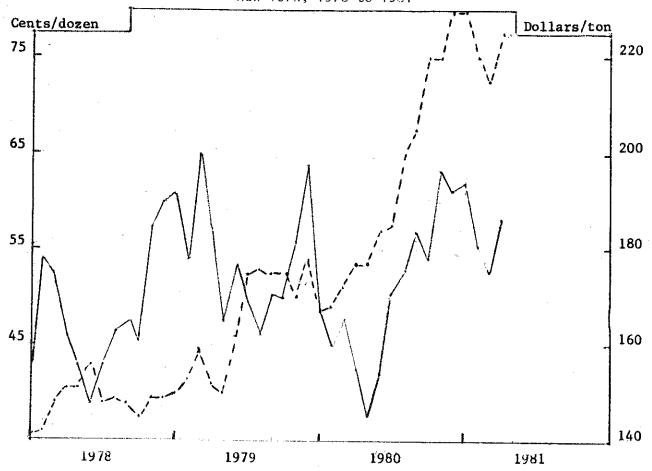
Gross farm income from poultry and eggs in the United States reached a new high in 1980 with a total value of 8.9 billion dollars. This is about double the value in 1969. Eggs accounted for 36 percent of the total gross income, broilers 48 percent, and turkeys 14 percent. In 1980 income from broilers was one billion dollars larger than the total income from egg sales.

Table 1. GROSS FARM INCOME FROM POULTRY AND EGGS, U.S. 1967-1980

		Sal	es	· ·		onsumption	Gross
Year	Eggs	Broilers	Turkeys	Poultry	Eggs	Other	Income
			- million do			_	
1969	2,212	1,531	454	185	38	8	<b>4,</b> 428
1970	2,190	1,475	498	102	30	6	4,302
1971	1,801	1,487	500	99	20	5	3,906
1972	1,764	1,623	537	101	17	5	4,046
1973	2,859	2,690	936	169	. 27	8	6,689
1974	2,884	2,436	683	116	25	5	6,151
1975	2,797	2,915	793	104	22	5	6,637
1976	3,110	2,953	825	135	24	- 6	7,053
1977	2,973	3,067	910	130	21	6	7,107
1978	2,900	3,682	1,157	129	19	5	7,892
1979	3,339	4,020	1,215	164	21	6	8,760
1980	3,248	4,304	1,253	130	20	5	8,959

SOURCE: USDA Poultry & Egg Situation

## FARM PRICE OF EGGS AND LAYING FEED PRICES New York, 1978 to 1981

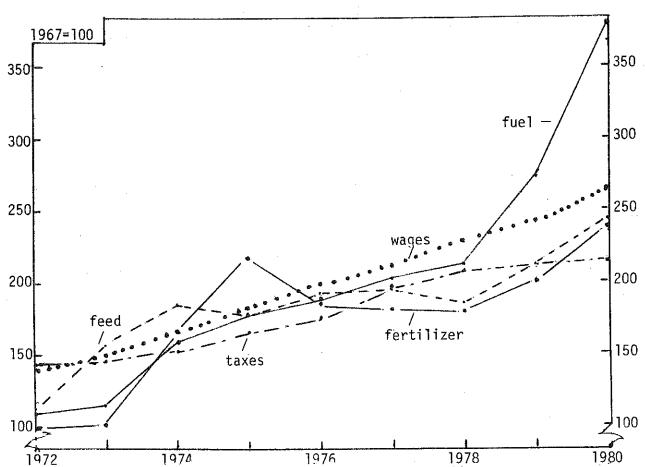


The relationship of feed and egg prices is a major factor affecting poultry incomes. Egg prices in 1980 averaged  $4.4 \pm 1$  less than 1979. Egg prices tend to fluctuate more than feed prices. The egg-feed ratio as expressed in pounds of feed a dozen eggs will buy was 5.2 for 1980 compared with 6.6 for 1979 and 6.5 for 1978.

Table 2. FARM PRICE OF EGGS AND LAYING FEED PRICES

NE 1 1	1070		rices		Lay	ying Feed	Prices	,	
Month	1978	1979	1980	1981	1978	1979	1980	1981	
January	43.3¢	60.9¢	48.5¢	61.8¢	\$141	\$150	\$167	\$218	
February	54.1	54.1	45.1	55.3	142	153	168	219	
March	52.6	65.0	47.8	52.7	148	159	172	215	
April	46.3	57.2	42.5	58.4	151	152	177	225	
May	43.0	47.6	37.6		151	150	177		
June	39.4	53.3	42.7		156	162	184		
July	43.2	49.9	50.5		148	175	185		
August	46.5	46.6	53.0		149	176	200		
September	47.4	50.3	56.7	<del></del> _	148	175	205		
October	45.8	50.1	54.1		145	175	220	<del></del>	
November	57.5	55.8	63.3	<del></del>	149	170	220		
December	60.2	64.1	61.2		149	178	235		
Annual Avg.	48.3	54.6	50.2		148	165	193	**************************************	
gg-Feed ra									
(Ībs./doz.	) 6.5	6.6	5.2						

SOURCE: USDA Agricultural Prices



PRICES PAID BY FARMERS FOR SELECTED ITEMS, 1972-1980

Prices of major farm inputs have all increased since 1972 but only wages paid by farmers have increased at a fairly constant rate. Feed prices rose 15 percent in 1980. Fertilizer prices increased 20 percent in 1980. Fuel prices jumped 29 percent in 1979 following four years of single digit increases and increased by 39 percent in 1980.

Table 3. PRICES PAID BY FARMERS FOR SELECTED ITEMS, 1972-1980

		Inc	dex 1967=1	100	
Year	Feed	Fertilizer	Fuel	Wages	Taxes
1972	112	94	108	140	142
1983	157	102	116	150	146
1974	185	167	159	160	154
1975	177	217	177	180	166
1976	192	185	187	199	176
1977	194	182	203	212	195
1978	186	180	212	229	210
1979	213	202	273	241	213
1980	245	242	380	264	216
Percent increase	e:				
(ave./year)	13%	16%	22%	10%	8%
1979 to 1980	15%	20%	39%	9%	1%

SOURCE: USDA Agricultural Prices

## General Summary of All Farms

Twenty-four poultry farm records for 1980 were used for this summary. The organization of these farms varies widely. There were eight poultry with other major enterprises, and sixteeen straight layer operations. In this general section, all businesses are included. For the more detailed analysis in the sections that follow, the 16 layer operations and the eight layer with other operations are included.

Table 4. FARM BUSINESS FINANCIAL SUMMARY
24 New York Poultry Farms, 1979-1980

••	Average 24 Farms		
Item	1979	1980	
Average Capital Investment	\$454,200	\$483,827	
Total Farm Receipts Total Farm Expenses Farm Income Interest @ 9% on Equity Capital	549,879 501,097 \$ 48,782 31,711	560,799 587,618 \$-26,819 28,640	
Labor and Management Income Per farm Number of Operators	\$ 17,071 1.29	\$-55,459 1.17	
LABOR AND MANAGEMENT INCOME PER OPERATOR	\$ 13,233	\$-47,400	

Labor and management income is a measure of the return to the operator for his labor and management. It is the most commonly used measure for comparing the overall results of farm operations. For these 24 poultry farms, the average labor and management income per operator was \$-47,400. In addition to the labor and management income, the operator usually has certain privileges such as a house to live in, eggs and poultry to use, and other miscellaneous items.

Labor and mangement income per operator varied widely. There were 15 farms with minus labor incomes, and 2 with incomes per operator of over \$25,000. Eleven of the farms with minus incomes were in the layer group.

The average capital investment on these 24 farms was \$483,800. The receipts averaged \$561,000, and the expenses \$588,000. On these farms, the receipts were considerably more than the capital investment giving a "capital turnover" (as measured by the number of years for the receipts to equal the capital) of about 0.9. This is in contrast to dairy businesses where commonly it takes two to three years for receipts to equal capital.

Poultrymen in 1980 faced higher production costs and lower than normal egg prices. These factors combined with a 9% interest charge for equity capital produced a very atypical income situation for many poultrymen. Poultry farms in our Poultry Business Summaries for the years 1976-1979 have averaged a labor income per operator of \$18,774 indicating that over the long run, egg producers have had positive incomes in New York.

Table 5.

#### GENERAL FARM BUSINESS FACTORS 24 New York Poultry Farms, 1980

Business Factor	Average 24 Farms		
Man equivalent	4.2		
Months unpaid labor	2.3		
Months hired labor	35.3		
Total months of labor	51.6		
Percent of labor hired	68%		
Average labor cost/month hired	\$878		
Average number hens for year	40,390		
Average number crop acres	346		
Total work units	1,812		
Eggs sold per hen	240		
Pounds feed per dozen eggs	4.1		
Average price per cwt. layer feed	\$8.75		
Average price per dozen eggs	54.8¢		

Poultry farm operations differ a great deal in their organization. Poultry only versus poultry combined with other enterprises is another, while contract versus independent operations is still another. The range in the capital investment is a reflection of these. The low capital investment was \$45,000, while the high was \$2,515,000. Similarly, the low expense reported was \$67,100, while the high was \$3,466,000. The wide range indicates that one should recognize limitations in the "averages" when they are used.

The labor force on these farms ranged from 1.4 to 12.0 man equivalent with an average of 4.2. For all 24 farms, 68% of the labor was hired and the rest was furnished by the operator and his family. The average labor expense per month of hired labor was \$878. Unpaid family labor was valued at \$500 per month.

Number of hens is a common measure of size for a laying operation. The numbers varied from 6,800 to 257,000. These reflect the average number of layers for the year. The number of eggs sold per hen averaged 240 but with a range of 162 to 290.

Marketing arrangements differ with some selling all eggs wholesale, while other sell at retail. The average price received per dozen sold by the 24 farms during 1980 was 54.8 cents. A number of poultrymen in the summary had premium markets.

Feed is the major cost item on poultry farms. Efficiency of feed conversion is an important factor affecting incomes. It is not easy to arrive at this figure on many farms but efforts were made to calculate this factor. The average for the 24 farms was 4.1 pounds per dozen eggs. Layer feed costs per hundredweight averaged \$8.75.

## SUMMARY OF THE EGG PRODUCING BUSINESSES

The first step in examining any business operation is a systematic summary of the business. In this section we will examine the physical resources, business practices, capital investment, receipts, expenses, and the financial summary for the year.

## Physical Resources and Business Practices

Below is a summary of the physical resources and business practices used by the 16 farms with poultry only and the 8 farms with poultry and other for the year 1980.

Table 6. LABOR FORCE, LIVESTOCK, CROPS GROWN, AND BUSINESS PRACTICES 24 New York Poultry Farms, 1980

Item	My Farm		rs Reporting arms with ltry & Other
Labor Months of: Operators Familyunpaid Hired Total		(8 farms) 2.6 (3 t	farms) 18.0 farms) 1.9 Farms) <u>34.9</u> 54.8
Man equivalent (no. men) Number of operators Percent of labor hired	<u> </u>	4.2 1.0 71%	4.6 1.5 64%
<u>Livestock</u> (number) Laying hens Pullets raised		48,100 (6 farms) 83,500** (2 1	25,500 Farms) 40,500
Crops (acres grown)  Hay Corn for grain Oats Wheat Total acres of crops		(6 f (2 f	Farms) 35** Farms) 395** Farms) 30** Farms) 52* 346
Business Practices  Percent of eggs marketed Wholesale Premium outlet Retail Percent of replacement pullets:	1: <u>%</u> <u>%</u> <u>%</u>	35% 48% 17%	47% 37% 16%
Raised Bought Percent of layer feed:	% % %	74% 26%	47% 53%
Purchased Mixed on farm	<u>%</u>	99% 1%	69% 31%

<sup>\*</sup>Three farms were partnerships.
\*\*Average of number reporting.

## Capital Investment

The capital used to operate a poultry business is invested in machinery and equipment, poultry, feed and supplies, and land and buildings. Some of the capital used is owned by the operator and some is borrowed. The end-of-year farm inventory is used as a measure of the capital investment in the business. It is suggested that the inventory reflect "market value".

Table 7. FARM INVENTORY VALUES, JANUARY 1, 1981 24 New York Poultry Farms

		Amount	Per Farm
Item	My Farm	16 Farms With Poultry Only	8 Farms With Poultry & Other
Machinery & equipme	ent \$	\$ 87,975	\$153,129
		76,843	40,745
Poultry		584	31,900
ther livestock		19,524	80,087
Feed & supplies		276,477	248,567
Land & buildings TOTAL INVESTMENT	\$	\$461,403	\$554,428

Total investment on these farms ranged from \$45,000 to \$2,515,000. Seven of the poultry and other farms, and nine of the poultry only farms had investments of more than \$250,000. The inventories of land and buildings, machinery, and feed and supplies were larger on the farms with other enterprises, which is logical.

How the capital is used is more important than the amount. Below are some measures used in analyzing the efficiency of the use of capital. Farms having other enterprises have larger investments because of the added land and machinery used.

Table 8. CAPITAL INVESMTENT ANALYSIS

Item	My	16 Farms With	8 Farms With
	Farm	Poultry Only	Poultry & Other
Total investment/man	\$	\$109,860	\$120,530
Total investment/hen	\$	\$9.59	\$22.09
Machinery investment/ hen Land & buildings/hen	\$ \$	\$1.83 \$5.75	\$6.10 \$9.90
%Land & buildings are of total investment Capital turnover (year	<u>%</u>	.78	45% 1.1

## Receipts

The source and amount of receipts tells us about the nature and size of the business. The size of many nonfarm businesses often is measured in terms of gross sales. However, in poultry businesses, egg price fuluctuations from year to year cause total receipts also to fluctuate.

Table 9. FARM RECEIPTS
24 New York Poultry Farms, 1980

Item	My	16 Farms With	8 Farms With
	Farm	Poultry Only	Poultry & Other
Egg sales Poultry sales Other livestock sales Crop sales Work off farm Government payments & refunds Miscellaneous Total Cash Farm Receipts Increase in Inventory TOTAL FARM RECEIPTS	\$\$ \$\$	\$565,069 4,980 251 1,180 -0- 6,111 1,805 \$579,396 11,190 \$590,586	\$390,642 6,688 39,348 26,883 3,084 4,237 1,216 \$472,098 29,127 \$501,225

Total cash receipts averaged \$590,586 for the farms with poultry only, and \$501,225 for the farms with poultry and other. Egg sales accounted for 98 percent and 83 percent respectively of the cash receipts on the two groups of farms. Crop sales accounted for 6 percent of the cash receipts on the farms with other enterprises, and the poultry sales accounted for 1 percent of the cash receipts.

Increases in inventory are usually due to expansion or improvements in the business. Inventory increases are considered as farm receipts. The increases could have been sold and converted to cash, therefore, they are considered as receipts in summarizing the year's business. Costs associated with the increases are reported as farm expenses.

Table 10. INCOME ANALYSIS

Item	My Farm	16 Farms With Poultry Only	8 Farms With Poultry & Other
Av. price/doz. of eggs sold Total cash receipts/man Total cash receipts per	\$¢	55.0¢ \$137,950	54.2¢ \$102,630
\$1,000 investment	\$	\$ 1,256	\$ 852

## Expenses

Knowing where the money went is important in any business analysis. The first step in controlling costs on poultry farms is to know what the expenses are and how they compare with those of other businesses. Below is a summary of the average farm expenses for these two groups of poultry farms.

Table 11. FARM EXPENSES
24 New York Poultry Farms, 1980

Item	My Farm		16 Farms With Poultry Only		arms With ltry & Other
Chicks purchased	\$	(6 farms)	\$ 16,139	(5 farms)	\$ 9,985
Pullets purchased		_ _(12 farms)	36,040	(6 farms)	32,266
Layer feed bought		_	376,498		115,159
Other feed			16,800		16,192
Hired labor			30,686		31,567
Machine hire		<del></del>	1,508	•	3,073
Machinery expense		_	6,486		10,113
Gas and oil		_	7,338		17,962
Poultry supplies, etc.		<del></del>	26,315		18,530
Crop expense		<del></del>	347		26,008
Building expense		_	2,902		1.,339
Taxes		_	3,029		5,385
Insurance			7,251		5,251
Utilities		<del></del>	8,983		7,504
Eggs bought for resale		— (10 farms)	39,183	(3 farms)	96,259
Interest paid		<del></del>	18,550		11,101
Miscellaneous*		<del></del>	27,446		19,698
TOTAL CASH OPERATING EXPENSE	\$	_	\$625,501		\$427,395
New machinery	Ť <u> </u>		10,521		26,010
Real estate		and the second s	9,452		14,633
Unpaid labor		<del></del>	1,465		937
Decrease in inventory		<del></del>	-0-		<u>-0-</u>
TOTAL FARM EXPENSES	\$		\$646,939		\$468,975

<sup>\*</sup>Advertising expense included \$216 with 3 farms reporting.

Interest paid was included as a cash expense in the 1976 summary for the first time. Prior summaries only had an interest charge calculated on the average capital for the year.

## Financial Summary

The financial success of a poultry business can be measured in various ways. There is no one best measure so in this summary several are used.

Farm income measures the return from the business to the operator for his labor and management and equity capital. Farm income is the difference between total receipts (including increase in inventory) and total expenses (including decrease in inventory and interest paid on debts).

Table 12. FARM INCOME, AND LABOR AND MANAGEMENT INCOME 24 New York Poultry Farms, 1980

Item		Farms With Poultry Only	8 Farms With Poultry & Other
Total farm receipts Total farm expenses FARM INCOME Interest on Equity Capital @ 9% Labor income per farm Number of operators LABOR AND MANAGEMENT INCOME	\$ \$(16)	\$590,586 646,939 \$-56,353 24,755 \$-81,108	\$501,225 468,975 \$ 32,250 36,411 \$ -4,161 3)
PER OPERATOR	\$	\$-81,108	\$ -2,774

Labor and management income is the return to the farm operator for his time and efforts. This is the measure most commonly used when studying farm businesses. To get labor and management income, a 9% interest charge on the operator's equity capital is subtracted from the farm income. The charge on equity capital represents an "opportunity cost" or what could have been earned had this capital been invested in something such as a certificate of deposit.

The average labor income per operator for the 16 farms was \$-81,108 and for the 8 farms \$-2,774. The 16 poultry only farms had expenses greater than the total farm receipts. This combined with the 9% interest on equity capital resulted in the large negative income for 1980.

The labor and management incomes varied widely as shown below. Sixty-two percent of the farms had a minus income, while 4 percent had incomes of \$20,000 or more.

DISTRIBUTION OF LABOR INCOMES FOR 24 POULTRY OPERATIONS

Labor and Management	Farms		
Income Per Operator	Number	Percent	
Minus	15	62	
0 - \$ 9,999 \$10,000 - \$19,999	4 4	17	
\$20,000 - or more	1	4	

Table 13.

# RATE OR RETURN ON INVESTMENT 24 New York Poultry Farms, 1980

Item	My	16 Farms With	8 Farms With
	Farm	Poultry Only	Poultry & Other
Farm income Plus interest paid	\$	\$-56,353 18,550 \$-37,803	\$ 32,250 11,101 \$ 43,351
Minus value of operator's labor and management*		10,000	15,000
Return on investment	\$%	\$-47,803	\$ 28,351
Average capital investment		\$455,808	\$539,865
RATE OF RETURN ON INVESTMENT		-10.5%	5.2%

<sup>\*\$10,000</sup> per operator - some farms had more than one operator.

Rate of return on investment is calculated by adding to the "farm income" the interest paid and then deducting a charge for the operator's labor and management, and then dividing by the average investment for the year. In the above calculation, \$10,000 has been used as the value of the operator's labor and management. This is a modest charge for the operator's labor and management.

Net farm cash flow reflects the cash available from the year's operation of the farm business for family living, interest and debt payments, and new capital purchases or investments. A family may have had additional cash available if some member of the family had a nonfarm income or if money was inherited or borrowed.

Debt repayment ability is a measure of the amount of cash available for debt payments. It is calculated by deducting family living expenses from the farm cash operating income. Since actual living expenses were not available, they were estimated at \$10,000 per operator. It is assumed here that new machinery and real estate are purchased with borrowed capital. This measure is useful in planning debt repayment schedules.

Table 14.

NET FARM CASH FLOW AND DEBT REPAYMENT ABILITY 24 New York Poultry Farms, 1980

Item	My Farm		8 Farms With Poultry & Other
Total cash receipts Total cash operating expense NET FARM CASH FLOW Plus Interest Paid Total Available Family cash living expense* DEBT REPAYMENT ABILITY	\$\$ \$\$ \$\$	\$579,396 625,501 \$-46,105 18,550 \$-27,555 10,000 \$-37,555	\$472,098 427,395 \$ 44,703 11,101 \$ 55,804 15,000 \$ 40,804

<sup>\*</sup>Estimated at \$10,000 per operator per year.

#### ANALYSIS OF THE EGG PRODUCTION BUSINESSES

The "summary" of a business provides an overall look at the operation. It shows what you did. The "analysis" which follows includes a more detailed examination of the different parts of the business. The analysis helps to show WHY you did what you did and to find ways to improve the operation. Measures have been developed to aid in analyzing farm business strengths and weaknesses.

In this section, several business factors are examined. Among these are: size of business, rates of production, labor efficiency, and cost control. Since many of the measures are interrelated, all of the factors should be examined before arriving at major conclusions. A complete analysis of the factors should point up the major strong and weak points of a business.

#### Size of Business

Size is usually the first factor examined when analyzing a business. Size affects other factors such as labor efficiency and cost control. Prices received and paid by poultrymen are often affected by volume which is a function of the size factor.

Farm management research has shown that in general large farm businesses make larger incomes. There are two basic reasons for this. Larger businesses make possible more efficient use of inputs such as equipment, the regular labor force, and other fixed cost items. Secondly, there are more units of production (hens) on which to make a profit. However, when a business is unprofitable, these same factors operate and large farms have larger losses.

Table 15. MEASURES OF SIZE OF BUSINESS 24 New York Poultry Farms, 1980

Measure	My Farm	16 Farms With Poultry Only	8 Farms With Poultry & Other
Number of hens		48,100	25,500
Dozens of eggs sold*		1,027,500	720,800
Dozens of eggs produced		951,100	520,500
Man equivalent		4.2	4.6
Total work units		1,984	1,466
Total farm receipts	\$	\$590,600	\$501,200
Total investment (end year)	\$	\$461,400	\$554,400

<sup>\*</sup>Includes eggs bought for resale.

#### Rates of Production

Rates of production for both poultry and crops are factors contributing to the success of poultry businesses. It is a challenge to find the levels of inputs, such as feed and fertilizer, which will give rates of production that yield the highest net income. This means a consideration of both the physical and economic returns from production.

Table 16.

MEASURES OF RATES OF PRODUCTION 24 New York Poultry Farms, 1980

Measure	My Farm	16 Farms With Poultry Only	8 Farms With Poultry & Other
Eggs sold/hen		238	249
Bushels corn/acre			NA
Bushels oats/acre			NA
Bushels wheat/acre			NA

Eggs produced and sold per hen is used in measuring the rate of production on poultry farms. Production per hen is calculated by dividing total eggs produced and sold by the average number of hens for the year. Some farmers bought eggs for resale. For eggs per hen, the eggs bought have been deducted from the dozens sold to get the eggs produced and sold.

The eggs sold per hen averaged 238 and 249 for the two groups. The range for the 24 farms was from 162 to 290 eggs sold per hen. This is a range of more than 100 eggs per hen from the lowest to the highest.

The relationship of eggs sold per hen and labor and management income is illustrated below.

Table 17.

EGGS SOLD PER HEN AND LABOR AND MANAGEMENT INCOME 24 New York Poultry Farms, 1980

Eggs Sold Per Hen	Number of Farms	Average Number of Hens	Labor & Mgt. Income/Operator
Less than 220	5	12,800	\$-10,412
220 - 240	7	48,900	\$-53,805
More than 240	12	46,900	\$-74,600

### Labor Efficiency

Labor efficiency is sometimes claimed to be the most important single business factor affecting incomes on farms today. This is brought about by the fact that the operator's labor and management income is a function of the labor output. Rising farm wage rates over time have meant that generally more output is required to pay those wages. If a poultryman wants top efficiency from his hired worker's time as well as his own, he must keep a close watch on the factors which affect labor efficiency.

Table 18. MEASURES

MEASURES OF LABOR EFFICIENCY 24 New York Poultry Farms, 1980

Measure	My Farm	16 Farms With Poultry Only	8 Farms With Poultry & Other
Dozens eggs sold/man*		244,600	156,700
Dozen eggs produced/man		226,500	113,200
Number hens/man		11,450	5,500
Work units per man		472	319

<sup>\*</sup>Includes eggs bought for resale.

The farms with poultry only as measured above had higher labor efficiency than the farms with poultry and other. In part, the higher dozen eggs sold per man reflects that practice of the poultry only group of buying eggs for resale. Also, on the poultry and other farms, a considerable amount of work is on the crops. This means more total time per hen or per dozen of eggs than on a poultry only operation.

When analyzing your labor efficiency consider:

- 1. Size of operation it tends to reduce the overhead time per unit.
- 2. Extent of work performed i.e., wholesale vs. retail marketing.
- 3. Arrangement of buildings and work areas.
- 4. Work methods the easy way vs. the hard way.
- 5. The human factor or how fast persons work.
- 6. Clarity of directions given to workers.
- 7. Kind of hired workers employed.

#### Cost Control

Some poultry farms spend as much as \$1,000 per day. With expenses of this amount, cost control is important. As more "input" items are purchased, cost control has a greater effect on incomes. Cost control is difficult to measure but an analysis of good records can provide some useful checks and point to possible areas of cutting costs.

Feed, <u>labor</u>, and <u>machinery</u> are big cost items on poultry farms, but it is important to watch the other costs too. Small leaks can build up into sizable losses. The next three pages are provided to help study your costs.

Table 19. COST CONTROL MEASURES 24 New York Poultry Farms, 1980

Item	My Farm		16 Farms With Poultry Only	8 Farms With Poultry & Other
Layer feed bought per hen	\$		\$ 7.83	\$ 4.52
Feed bought/doz. eggs produced		¢	40¢	22¢
Lbs. feed/doz. eggs produced			4.1	4.0
Total labor cost per hen*	\$		86¢	\$ 1.80
Total labor cost per dozen eggs produced*		¢	4.3¢	8.8¢
Building repairs per hen		¢	6.0¢	5.2¢
Utilities per hen		_¢	18.7¢	29.4¢
Taxes per hen		¢	6.3¢	21.1¢
Insurance per hen		¢	15.7¢	20.6¢
Total farm production expenses/				
hen (total less inventory increase and eggs bought)	\$		\$12.40	\$13.47
Total expenses per \$100 receipts	\$		\$110	\$94

<sup>\*</sup>Includes operator's labor.

For the above measures, it must be kept in mind that the "poultry and other" farms had other enterprises which affect several cost control measures. The feed bought per hen is an example. Much of the crop expense on the poultry and other farms is an indirect feed cost on these operations. Also, the labor cost per dozen eggs on the poultry and other farms includes labor for the production of feed which on poultry only farms would have been purchased.

Labor and machinery costs are sizable on a poultry farm. It is important to keep these under control. Since labor and machinery work as a team, it is well to study them together.

Table 20. POWER AND MACHINERY COSTS
24 New York Poultry Farms, 1980

Item	My Farm	16 Farms With Poultry Only	8 Farms With Poultry & Other
Beginning inventory New machinery bought	\$	\$ 90,053 10,521	\$142,623 26,010
Total (1)	\$	\$100,5	74 \$168,633
End inventory Machinery Sold	\$	\$ 87,975 63	\$153,129 -0-
Total (2)	\$	\$ 88,6	<u>\$153,129</u>
Depreciation (1 minus 2)	\$	\$ 11,936	\$ 15,504
Int. @ 9% av. inventory		8,011	13,309
Gas and oil		7,338	17,962
Machinery repairs and auto expense		4,199	9,958
Machine hire		1,508	3,073
Electricity (farm share)		7,186	6,003
Total Power and Machinery Cost Less: Gas tax refund Income from machine work	\$	\$ 40,17 \$368 -368	
NEW POWER AND MACHINERY (	COST	\$ 39,8	
New power and machinery o			83¢ \$2.62
per man		\$9,47	
per dozen eggs produced	<b>*</b>	•	.2¢ 12.6¢

<sup>\*</sup>Does not include eggs bought and resold.

Depreciation is the largest item in the power and machinery cost group. This is an indirect item and along with interest is often overlooked. Usually half or more of the cost is represented by these two "overhead" items.

With the jump in fuel prices in recent years, the gas and electricity items have taken on added importance. Look for ways to save on energy use.

Farmers sometimes justify high machinery costs on the basis that the machinery saves on high cost labor. It is well to examine this justification. The combined machinery and labor cost measure gives a good check.

Table 21.

# LABOR AND POWER AND MACHINERY COSTS 24 New York Poultry Farms, 1980

Item	My Farm	16 Farms With Poultry Only	8 Farms With Poultry & Other
Value of labor of operator* Hired labor Unpaid family labor	\$	\$ 9,000 30,686 1,465	\$13,500 31,567 <u>937</u>
TOTAL LABOR COSTS	\$	\$41,151	\$46,004
New power & machinery cost		<u>39,810</u>	65,543
TOTAL LABOR & MACHINERY COSTS	\$	\$80,961	\$111 <b>,</b> 547
Labor cost per hen Labor cost/dozen eggs produced	\$¢	86¢ 4.3¢	\$1.84 8.8¢
Labor and machinery cost: per hen per dozen eggs sold	\$¢	\$1.68 7.9¢	\$4.45 15.5¢

<sup>\*</sup>Valued at \$9,000 per operator.

For the 16 poultry only farms, the labor cost was greater than the power and machinery cost. For the poultry and other the machinery and power cost was greater. It is important to watch the combined labor and machinery costs. It is easy to spend for additional machinery but neglect to reduce the labor used. Below are some measures for use in examining labor costs.

Table 22.

LABOR USE ANALYSIS

Item	My Farm	16 Farms With Poultry Only	8 Farms With Poultry & Other
Months of hired labor		35.4	34.9
Hired labor expense	\$ 	30,686	31,569
Labor expense/month hired	\$ ·	\$867	\$905
Total labor cost/month	\$ 	\$823	\$839
Percent of total labor by: Operator	 %	24%	33%
Unpaid family	 %	5%	3%
Hired	%	71%	64%

## Comparison of Recent Summaries

Businessmen must keep abreast of changes that are taking place. The poultry industry has changed more than many types of farm businesses. Below is a comparison of selected factors from the last five New York poultry summaries.

In comparing these factors, keep in mind that the farms included from year to year vary as indicated by the number of farms and there is also some change in individuals each year.

Table 23. NEW YORK POULTRY FARM SUMMARIES, 1976-1980

Factor	1976	1977	1978	1979	1980
Number of farms	26*	28*	25*	24*	24
Man equivalent	4.4	4.4	4.2	4.6	4.3
Number of hens	27,300	30,500	23,115	36,350	40,390
Investment Land & buildings Machinery Livestock & poultry Feed & other	\$134,513	\$158,592	\$175,731	\$255,515	\$267,174
	67,217	96,113	93,667	109,466	109,693
	40,752	52,155	42,189	64,601	75,833
	28,695	36,501	36,654	46,562	39,712
Total	\$271,177	\$343,361	\$348,241	\$476,144	\$492,412
Receipts Egg sales Livestock sales Other Total	\$327,593	\$379,509	\$342,575	\$469,531	\$506,927
	10,960	18,094	18,724	23,762	18,832
	63,086	21,080	51,068	56,586	35,040
	\$401,639	\$418,683	\$412,367	\$549,879	\$560,799
Expenses Feed bought Hired labor Chicks & pullets Electricity & phone Other	\$140,142	\$170,457	\$125,147	\$220,121	\$305,982
	22,516	24,841	24,026	33,270	30,980
	36,625	34,249	29,713	50,660	48,870
	4,682	5,354	4,822	6,951	8,490
	164,040	156,738	200,894	190,095	193,296
	\$368,005	\$391,639	\$384,602	\$501,097	\$587,618
Business Factors Av. price/doz. eggs Eggs per hen Hens per man Lbs. feed/doz. eggs	59.6¢	53.8¢	58.8¢	55.6¢	54.8¢
	221	233	228	240	240
	6,200	7,500	5,500	7,900	9,400
	4.6	4.5	4.6	4.0	4.0
Labor income/operator	\$ 17,405	\$ 7,779	\$ 8,635	\$ 13,216	\$-47,536

<sup>\*</sup>Includes only layer operations, omits the contract pullet operations.

### Cost of Producing Eggs

Table 24.

# AVERAGE FARM COST OF PRODUCING EGGS 16 New York Poultry Farms, 1980

Item		My arm	16 Farms With Poultry Only
Farm expenses	\$		\$646,939
Interest on equity capital @ 9%			24,755
Operator's labor and Management*			10,000
Total Cost		\$	\$681,694
Total receipts	\$	<u> </u>	\$590,586
Less egg sales			565,069
Other Income			25,517
Cost of Producing Eggs (Total Cost Less Other Income	<u>;</u> )	\$	\$656,177
Dozen eggs sold		-	1,027,487
Cost per dozen eggs sold		¢	63.9¢
Average price received		¢	55.0¢

<sup>\*</sup>Figured at \$10,000 per operator.

By adding to the total farm expenses an estimate of the value of the operator's labor and management, and an interest charge on the equity capital used, the farm cost of producing eggs can be calculated. The value of the operator's labor and management was estimated at \$10,000 per year. This was based on estimates made by dairymen. Receipts for items other than eggs are credited against the total cost on the assumption that these items were produced at cost.

Farm expenses include costs for eggs purchased for resale. This tends to impose some egg market values in the calculation of production costs.

This "farm unit" method of calculating the cost of producing eggs has limitations but it does give a general indication of the overall costs. This method was applied to the farms with poultry only.

Table 25. COST ITEMS IN PRODUCING A DOZEN EGGS
16 New York Poultry Farms, 1980

Item	My Farm		Cos Amount	st Per Dozen Percent
Feed for layers Replacements: Chicks & pullets bought Grower feed Total Less sale of birds	¢	¢	5.1 1.6 6.7¢	0¢ 62.6% 8.0% 2.5 10.5%
Net Replacement Cost Labor Power & machinery (without inte Interest on capital Poultry supplies, etc. Taxes & insurance All other Total	erest)	¢	6.2 4.3 3.1 4.2 2.6 1.0 63.5	2¢ 9.7% 1 6.4 1 4.8 2 6.6 5 4.1 0 1.6 7 4.2

Another approach to the cost of producing eggs is to examine individual cost items. This has been done above for the 16 poultry only farms. Some items have been calculated in earlier sections and the total cost per dozen was calculated by the "farm unit" method on page 21.

The feed cost of 40.0 is the total layer feed expense divided by the dozen of eggs produced. Feed accounted for a little more than sixty percent of the total cost.

Replacement costs include the expenses for chick and pullets bought and grower feed. Fuel and other direct costs involved in rearing are not included here but are in other items listed. Hence, this replacement cost is on the low size. Receipts from birds sold are subtracted to get a "net" replacement cost. Replacements accounted for about one-eighth of the total cost.

The labor item includes a value for the operator's work but not his management. The interest charge in power and machinery costs shown on page 18 was taken out since it is included in interest on capital. Building repairs and depreciation would be an item in the "all other".

Table 26. COMPARISON OF COSTS OF PRODUCING EGGS IN RECENT YEARS

	Av. Price	Farm Unit	Poultry	Feed C	osts/Doz.	Labor Cost
Year	Received	Cost Per Doz.*	Ration	Cents	% Total	Per Doz.
1972	32.6¢	34.4¢	(cwt) \$4.50	17.3¢	50%	4.6¢
1973	54.8	52.5	6.75	30.3	58	5.1
1974	52.4	54.2	7.09	32.0	59	3.9
1975	57.1	57.9	7.02	32.2	56	4.6
1976	59.3	57.6	6.89	31.4	55	5.5
1977	53.7	51.1	6.56	28.5	56	4.7
1978	52.8	53.1	5.67	25.8	49	5.5
1979	56.5	54.6	7.56	28.6	52	4.7
1980	55.0	63.9	8.73	40.0	63	4.3

\*For "Poultry Only" farms in business summaries.

## FARM BUSINESS SUMMARY 16 New York Poultry Farms, 1980

CAPITAL INVESTMENT 1/1/80	1/1/81	RECEIPTS	
Machinery & equip. \$ 90,053 Livestock 69,019 Feed & supplies 22,261 Land & Buildings 268,880	\$ 87,975 77,427 19,524 276,477	Egg sales Livestock sold Crop sales Miscellaneous	\$565,069 5,231 1,180 7,916
TOTAL INVESTMENT \$450,213	\$461,403	Total Cash Receipts Increase in Inventory	\$579,396 11,190
		TOTAL FARM RECEIPTS	\$590,586
EXPENSES		FINANCIAL SUMMARY	
Replacements Chicks bought Pullets bought	\$ 16,139 36,040	Total Farm Receipts Total Farm Expenses	\$590,586 646,939
Feed hought	¢276 400	Farm Income	\$-56,353
Layer feed bought Other feed Labor	\$376,498 16,800	Interest on equity capital 0 9%	24,755
Hired	30,686	Farm Labor Income	\$-81,108
Unpaid Power and Machinery	1,465	Number of operators	1.0
Machine hire Machinery repair	1,508 6,486	LABOR INCOME/OPERATOR	\$-81,108
Gas and oil	7,338	BUSINESS FACTORS	
Electricity Poultry	7,186	Man equivalent Number of hens	4.2 48,052
Eggs bought for resale Livestock expense Supplies	39,183 14,565 26,315	Number of pullets raised (6 farms) Dozen of eggs (produced)	83,600 951,100
Fuel	-0-	Eggs produced per hen	238
Crop expense Real Estate	347	Dozens of eggs produced/man	226,500 11,440
Land, bldg., & fence repair Taxes Insurance	2,902 3,029 7,251	Hens per man Lbs. feed/doz. eggs produced Av. price/cwt. feed bought	4.1 \$8.73
Capital Items New machinery New real estate	10,521 9,452	Av. price/doz. eggs (all)	55.0
Other Telephone Interest paid Advertising & promotion Miscellaneous Decrease in inventory	1,797 18,550 -0- 12,881 -0-		
TOTAL FARM EXPENSES	\$646,939		

# FARM BUSINESS SUMMARY - AVERAGES PER HEN 16 New York Poultry Farms, 1980

Machinery & equip. \$1.87 \$1.83 Egg sales \$11.76 Livestock 1.44 1.61 Livestock sold .1 Feed & supplies .46 .41 Crop sales .0.7 Miscellaneous .1 TOTAL INVESTMENT \$9.37 \$9.60 Total Cash Receipts \$12.00 Increase in Inventory .2 TOTAL INVESTMENT \$9.37 \$9.60 Total Cash Receipts \$12.00 Increase in Inventory .2 TOTAL FARM RECEIPTS \$12.25 TOTAL FARM RE	CAPITAL INVESTMENT 1/1	1/80	1/1/81	RECEIPTS	
Livestock 1.44 1.61 Livestock sold .1' Feed & supplies .46 .41 Crop sales .0.0' Land & buildings _5.60 5.75 Miscellaneous .1' TOTAL INVESTMENT \$9.37 \$9.60 Total Cash Receipts 12.00 Increase in Inventory .2:  EXPENSES TOTAL FARM RECEIPTS \$12.00 Increase in Inventory .2:  TOTAL SUMMARY  Pullets bought .75 Total FARM RECEIPTS \$12.20 Total Farm Receipts .12.20 Total Farm Expenses .13.40 Farm Income .13.40 Farm Increase .13.40 Farm Labor Income .13.40 Farm Labor Income .1.60 Farm Labor Income .1					\$11.76
Feed & supplies				Livestock sold	.11
Land & buildings 5.60 5.75 Miscellaneous .1.  TOTAL INVESTMENT \$9.37 \$9.60 Total Cash Receipts \$12.06 Increase in Inventory .2.  EXPENSES TOTAL FARM RECEIPTS \$12.29  Replacements Chicks bought \$.34 Pullets bought 7.75 Total Farm Receipts \$12.29  Layer feed bought 7.84 Other feed 9.35 Interest on equity capital 9.9% 9.51  Labor Hired 6.64 Unpaid 9.35 Farm Labor Income \$-1.11  Gas and oil 1.15 Flectricity 1.16 Gas and oil 1.15 Flectricity 1.15 Fuel 1.15					.02
EXPENSES  Replacements Chicks bought Pullets bought Pullets bought Feed Layer feed bought Other feed Unpaid Power and Machinery Machinery repair Gas and oil Electricity Poultry Eggs bought for resale Livestock expense Supplies Fuel Crop Crop expense Real Estate Land, bldg., & fence repair Land, bldg., & fence repair Capital I tems New machinery New real estate Other Telephone Increase in Inventory \$12.25  FINANCIAL SUMMARY Total Farm Receipts \$12.25  Total Farm Expenses \$13.46  Farm Income \$-1.12  Farm Income \$-1.12  Farm Labor Income \$-1.69  Abbor INCOME/OPERATORS/HEN \$-1.69  Abbor Increase in Inventory  Crop Crop expense .01 Real Estate Land, bldg., & fence repair Taxes Increase in Inventory .22  New real estate .20 Other Telephone Interest paid .39  Advertising & promotion Miscellaneous .27  Decrease in inventory .20  Decrease in inventory .21  Abor Inventory .22  Abor Interest paid .39  Advertising & promotion Miscellaneous .27  Decrease in inventory .20  Abor Interest paid .39  Advertising & promotion Miscellaneous .27  Decrease in inventory .20  Abor Interest paid .39  Advertising & promotion Miscellaneous .27  Decrease in inventory .22					17
EXPENSES  Replacements Chicks bought Pullets bought Pullets bought At a pullets and a pullets At a pullets and a pullets At a	TOTAL INVESTMENT \$9	9.37	\$9.60	Total Cash Receipts	\$12.06
Replacements	, ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( ) , ( )	,,,,,	Ψ5100		.23
Chicks bought Pullets bought 7.84 Pullets bought 7.84 Total Farm Receipts 13.46  Layer feed bought 7.84 Farm Income \$-1.17  Labor Interest on equity capital 0.9% .56  Unpaid .03 Farm Labor Income \$-1.69  Machine hire .03 LABOR INCOME/OPERATORS/HEN \$-1.69  Machinery repair .14  Gas and oil .15  Electricity .15  Poultry  Eggs bought for resale .82 Livestock expense .30 Supplies .55 Fuel  Crop Crop expense Real Estate  Land, bldg., & fence repair .06 Insurance .15  Capital Items  New machinery .22 New real estate .20  Other  Telephone .04 Interest paid .39 Advertising & promotion Miscellaneous .27 Decrease in inventory .02  Total Farm Receipts .13.46 Total Farm Expenses .13.46  Total Farm Receipts .13.46  Total Farm Expenses .13.46  Farm Income .5-1.13  Interest on equity5  Farm Labor Income .5-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69  *-1.69	EXPENSES				\$12.29
Pullets bought				FINANCIAL SUMMARY	
Total Farm Expenses   13.46					<b>* * * * * * * * * *</b>
Layer feed bought			. /5		•
Other feed Labor Interest on equity Hired .64 capital @ 9% .57 Unpaid .03 Farm Labor Income \$-1.69  Power and Machinery .14 Gas and oil .15 Electricity .15 Poultry Eggs bought for resale .82 Livestock expense .30 Supplies .55 Fuel Crop Crop expense .01 Real Estate Land, bldg., & fence repair .06 Taxes .06 Insurance .15 Capital Items New machinery .22 New real estate .20 Other Telephone .04 Interest paid .39 Advertising & promotion Miscellaneous .27 Decrease in inventory .02 Decrease in inventory .03 Interest on equity .57 Interest on equity .27 Laberta Interest on equity .27 Interest on equity .27 Laberta Interest on equity .27 Interest on equity .25 Interest on equital @ 9% Interest on equital expension of the paid of the pai			7 8/1	•	
Labor Hired Unpaid Power and Machinery Machine hire Machinery repair Machinery repair Machinery repair Machinery Machinery repair Machinery Machi				Farm Income	\$-1.17
Unpaid Power and Machinery  Machine hire Machinery repair Machinery Machiner	Labor			Interest on equity	
Power and Machinery Machine hire Machine hire Machinery repair Gas and oil Electricity Foultry Eggs bought for resale Livestock expense Supplies Fuel Crop Crop expense Land, bldg., & fence repair Labor Income S-1.05  LABOR INCOME/OPERATORS/HEN \$-1.65  ABOR INCOME/OPERATORS/HEN \$-1.65  LABOR INCOME/OPERATORS/HEN \$-1.65  ABOR INCOME/OPERATORS/HEN				capital @ 9%	.52
Machine hire .03 LABOR INCOME/OPERATORS/HEN \$-1.69 Machinery repair .14 Gas and oil .15 Electricity .15  Poultry Eggs bought for resale .82 Livestock expense .30 Supplies .55 Fuel  Crop Crop expense .01 Real Estate Land, bldg., & fence repair .06 Insurance .15  Capital Items New machinery .22 New real estate .20 Other Telephone .04 Interest paid .39 Advertising & promotion Miscellaneous .27 Decrease in inventory .0-			.03	Farm Labor Income	\$-1.69
Machinery repair       .14         Gas and oil       .15         Electricity       .15         Poultry       .15         Eggs bought for resale       .82         Livestock expense       .30         Supplies       .55         Fuel          Crop       .00         Crop expense       .01         Real Estate       .06         Land, bldg., & fence repair       .06         Taxes       .06         Insurance       .15         Capital Items       .22         New machinery       .22         New real estate       .20         Other       .04         Telephone       .04         Interest paid       .39         Advertising & promotion          Miscellaneous       .27         Decrease in inventory       -0-			0.3		
Gas and oil Electricity Poultry Eggs bought for resale Livestock expense Supplies Fuel Crop Crop expense Land, bldg., & fence repair Land, bldg., & fence repair Taxes Insurance Capital Items New machinery New real estate  Telephone Interest paid Advertising & promotion Miscellaneous Miscellaneous Miscellaneous Medical Medica				LABOR INCOME/OPERATORS/HEN	5-1.09
Electricity					
Poultry         Eggs bought for resale         .82           Livestock expense         .30           Supplies         .55           Fuel            Crop         Crop expense           Crop expense         .01           Real Estate         .06           Land, bldg., & fence repair         .06           Taxes         .06           Insurance         .15           Capital Items         .22           New machinery         .22           New real estate         .20           Other         .04           Telephone         .04           Interest paid         .39           Advertising & promotion            Miscellaneous         .27           Decrease in inventory         -0-					
Livestock expense .30 Supplies .55 Fuel  Crop Crop expense .01 Real Estate Land, bldg., & fence repair .06 Taxes .06 Insurance .15 Capital Items New machinery .22 New real estate .20 Other Telephone .04 Interest paid .39 Advertising & promotion Miscellaneous .27 Decrease in inventory .02					
Supplies       .55         Fuel          Crop       .01         Real Estate       .01         Land, bldg., & fence repair       .06         Taxes       .06         Insurance       .15         Capital Items       .22         New machinery       .22         New real estate       .20         Other       .04         Interest paid       .39         Advertising & promotion          Miscellaneous       .27         Decrease in inventory       -0-	Eggs bought for resale				
Fuel          Crop       .01         Real Estate       .06         Land, bldg., & fence repair       .06         Taxes       .06         Insurance       .15         Capital Items       .22         New machinery       .22         New real estate       .20         Other       .04         Interest paid       .39         Advertising & promotion          Miscellaneous       .27         Decrease in inventory       -0-					
Crop expense .01 Real Estate Land, bldg., & fence repair .06 Taxes .06 Insurance .15 Capital Items New machinery .22 New real estate .20 Other Telephone .04 Interest paid .39 Advertising & promotion Miscellaneous .27 Decrease in inventory .01			.55		
Crop expense Real Estate Land, bldg., & fence repair Taxes Insurance Capital Items New machinery New real estate Telephone Interest paid Advertising & promotion Miscellaneous Decrease in inventory  -0-  O6 Interest paid Advertising & promotion Miscellaneous Decrease in inventory  -0-  O6 Interest paid Int					
Real Estate Land, bldg., & fence repair .06 Taxes .06 Insurance .15 Capital Items New machinery .22 New real estate .20 Other Telephone .04 Interest paid .39 Advertising & promotion Miscellaneous .27 Decrease in inventory .27			01		
Land, bldg., & fence repair .06 Taxes .06 Insurance .15  Capital Items New machinery .22 New real estate .20 Other Telephone .04 Interest paid .39 Advertising & promotion Miscellaneous .27 Decrease in inventory .06			.01		
Taxes .06 Insurance .15 Capital Items  New machinery .22 New real estate .20 Other  Telephone .04 Interest paid .39 Advertising & promotion Miscellaneous .27 Decrease in inventory .27		pair	.06		
Capital Items  New machinery  New real estate  Other  Telephone  Interest paid Advertising & promotion  Miscellaneous  Decrease in inventory  .22  .20  .20  .21  .22  .22  .22  .22					
New machinery .22 New real estate .20 Other Telephone .04 Interest paid .39 Advertising & promotion Miscellaneous .27 Decrease in inventory -0-	Insurance		.15		
New real estate .20  Other  Telephone .04 Interest paid .39 Advertising & promotion Miscellaneous .27 Decrease in inventory -0-					
Other Telephone .04 Interest paid .39 Advertising & promotion Miscellaneous .27 Decrease in inventory -0-					
Telephone .04 Interest paid .39 Advertising & promotion Miscellaneous .27 Decrease in inventory -0-			.20		
Interest paid .39 Advertising & promotion Miscellaneous .27 Decrease in inventory -0-			04		
Advertising & promotion Miscellaneous .27 Decrease in inventory -0-					
Miscellaneous .27 Decrease in inventory					
Decrease in inventory			.27		
TOTAL FARM EXPENSES \$13.46	TOTAL FARM EXPENSES		\$13.46		

## FARM BUSINESS SUMMARY 24 New York Poultry Farms, 1980

CAPITAL INVESTMENT	_ ,_ ,	RECEIPTS	
1/1/80	1/1/81 \$109,693 64,810 11,023 39,712 267,174	Egg sales Poultry sold Other livestock Crop sales Miscellaneous	\$506,927 5,549 13,283 9,748 8,123
TOTAL INVESTMENT \$475,242	\$492,412	Total Cash Receipts Increase in Inventory	\$543,630 17,169
EXPENSES		TOTAL FARM RECEIPTS	\$560,799
Replacements Chicks bought Pullets bought Other livestock Feed Layer feed bought Other feed Labor Hired Unpaid Power and Machinery Machine hire Machinery repair Gas and oil Electricity Poultry Eggs bought for resale Livestock expense Supplies Fuel Crop Crop expense Real Estate Land, bldg., & fence repair Taxes Insurance Capital Items New machinery New real estate	\$ 14,088 34,782 9,865 289,385 16,597 30,980 1,289 2,030 7,696 10,879 6,792 58,209 2,627 23,720  8,901 2,381 3,814 6,584 15,684 11,179	TOTAL FARM RECEIPTS  FINANCIAL SUMMARY  Total Farm Receipts Total Farm Expenses  Farm Income  Interest on equity capital @ 9%  Farm Labor Income  Number of operators (31)  LABOR INCOME/OPERATOR  BUSINESS FACTORS  Man equivalent Number of hens Number of pullets raised (8 farms) Doz. of eggs (produced)  Eggs produced/hen Doz. of eggs produced/man Hens per man  Lbs. feed/doz. eggs produced Av. price/cwt. feed bought  Av. price/doz. eggs (all)	\$560,799 \$560,799 587,618 \$-27,119 28,640 \$-55,459 1.17 \$-47,401 4.3 40,390 72,819 807,600 240 187,800 9,390 4.1 \$8.75 54.8¢
Other Telephone Interest paid Advertising & promotion Miscellaneous TOTAL FARM EXPENSES	1,698 16,067 391 11,980 \$587,618		

## Progress of the Farm Business

There are two kinds of comparisons used in analyzing a farm business. One is that of comparing your business with that of other poultrymen. The other is comparing your current year's business with that of previous years to see the progress you are making. In looking ahead, it is suggested that you set targets for 1981 which are in line with the progress you have been making.

Your business analysis on the preceding pages provide the factors for 1980. You will need to refer to earlier summaries for the 1978 and 1979 factors.

Size of Business	1978	<u>1979</u>	1980	Target 1981
Average number of layers Value of egg sales Man equivalent	\$	\$	\$	\$
Rate of Production Eggs produced per hen	<del></del>		<del></del>	
Labor Efficiency Hens per man Dozen eggs sold per man				
Capital Efficiency Total inventory value Total investment/hen Farm receipts per \$100	\$ \$	\$ \$	\$ \$	\$ \$
investment	\$	\$	\$	\$
Cost Control Layer feed bought per hen Lbs. feed per dozen eggs	\$	\$	\$	\$
Labor cost per hen Machinery cost per hen Total expense per \$100	\$ \$	\$ \$	\$ \$	\$ \$
receipts	\$	\$	\$	\$
<u>Prices</u> Average price per dozen	\$	\$	\$	\$
Financial Summary Total Farm Receipts Total Farm Expenses	\$ \$	\$ \$	\$ \$	\$ \$
Labor & management income per operator	\$	\$	\$	\$
Total debt outstanding Debt per hen	\$ \$	\$	\$ \$	\$ \$
Net Worth	\$	\$	\$	\$