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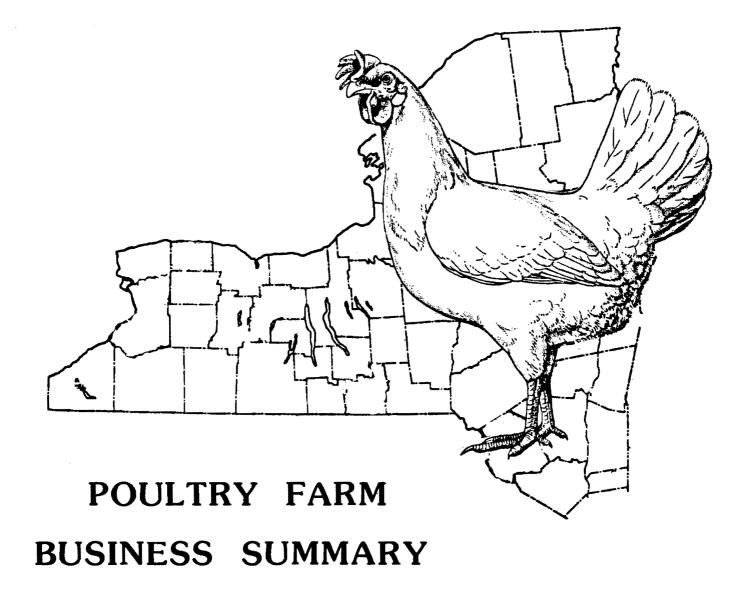
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by
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#### 1986 NEW YORK

#### 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 with 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 1986, 16 poultry producers submitted records for summary and analysis. Extension field staff working with poultry producers collected the figures for each farm and 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 other enterprises.

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 poultry producers in the State, to teachers of agriculture, college farm management instructors, agency representatives, and to agribusiness persons.

#### Acknowledgements

This summary was prepared by S. E. Ackerman and K. S. Park, Regional Extension Specialists, Department of Extension Administration, New York State College of Agriculture and Life Sciences. Susanne Lennon typed this report.

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#### INTRODUCTION

One of the factors which influences the farm's bottom-line profit is the price the farm is able to receive for its eggs. To an extent this price may be influenced by marketing efforts on the part of the farm business, however, many other factors influencing the regional price are outside of the farmer's control. These may include the supply of laying hens, the economy, government policies and regulations, etc. The farm prices in New York from 1977 to 1986 show year-to-year fluctuations and do not move in the same direction for more than 3 consecutive years.

Table 1. NEW YORK STATE

EGG PRODUCTION AND FARM PRICE<sup>1</sup>

17	Eggs	Farm Price
<u> (ear</u>	Produced	per_dozen
	(millions)	(cents)
977	1,805	53.4
.978	1,845	46.5
979	1,767	54.4
980	1,776	50.3
.981	1,858	56.7
1982	1,859	55.5
L983	1,741	57.5
984	1,710	70.8
985	1,710	55.8
986	1,523	59.0

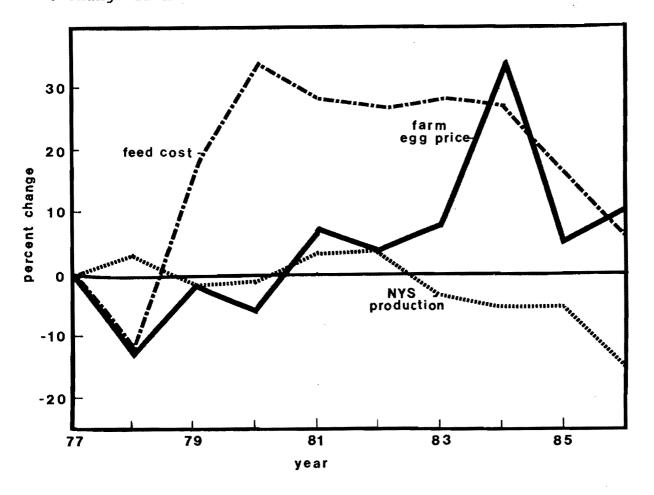
Feed costs influence the cost of production and are in general approximately 50% of the total cost of eggs sold. Changes in poultry feed costs are also displayed in Figure 1.

<sup>&</sup>lt;sup>1</sup>Source: NY Crop Reporting Service, New York Agricultural Statistics.

Figure 1 shows the relationships among New York State egg production, farm price and feed costs. The farm price of eggs in relation to the farm price in 1977 appears to be increasing each year while New York production is declining. Low farm prices and high feed costs in the early 80's resulted in an average income per operator of \$-19,952 for 1980 - 1982.

Feed prices have been declining slightly since 1982 when compared to 1977 feed prices. This has been due to the drop in the price of grains and other feed ingredients and also may be due to improved on-farm milling operations.

EGGS: NEW YORK STATE PRODUCTION, FARM PRICE AND FEED COST<sup>2</sup> % change from 1977



<sup>&</sup>lt;sup>2</sup>NY Crop Reporting Service, New York Agricultural Statistics and Poultry Farm Business Summary 1983.

#### GENERAL SUMMARY OF ALL FARMS

The 1986 Poultry Summary included 16 farm records. The size, organization and enterprises of the farms varied widely, and the figures presented in this summary are merely the averages of all farm situations. The 16 farms used in the summary can be divided into 9 farms with poultry operations only and 7 farms with other major enterprises such as beef, hogs, dairy or crops.

Below is a brief overview of some major business factors summarized from the 16 farms included in the statewide summary. For more detailed business analyses, calculations for the 9 farms with poultry only and the 7 farms including other major enterprises are separated.

Table 2. SUMMARY OF FARM BUSINESS FACTORS

Business Factor	16 Farm Average
No. of operators	1.48
Worker equivalent months unpaid labor months hired labor total months labor % Labor hired	6.93 3.96 59.4 83.1 71.5 %
Average Inventory	716,544
Average No. laying hens Eggs Sold (dz.)	53,652 1,290,386

The Farm Income from Table 3 is accrual base Farm Receipts minus accrual Farm Expenses. The accrual base accounting includes machinery and real estate depreciation/appreciation as part of the farm business expenses. Changes in inventory are also accounted for. Inventory increases due to storage of feed that is not fed or sold that year and inventory decreases when feed is used up faster than it is being replaced are adjustments to the production expenses that must be made to accurately assess the income for the year. Farm Expenses also includes an adjustment for unpaid family labor.

Table 3. FARM BUSINESS FINANCIAL SUMMARY

Item	16 Farm Average
Total Farm Receipts	\$878,442
Cotal Farm Expenses	(811,813)
Farm Income	\$66,629
Interest on Capital	(35,550)
Labor & Management Income/farm	\$31,079
Operators/Farm	1.48
Labor & Management Income/Operato	or \$21,008

Labor and Management Income per Farm is calculated by subtracting the expense (cost) of using the owner's equity or investment in the farm business. The owner's equity, if used in an alternative investment would be expected to earn interest. Since the owner is using it in a farm business though, it is actually "costing" the farmer to keep it there, and that cost should be deducted from Farm Income. Nine percent of average inventory less the interest paid for the year is used to estimate the cost of equity.

Labor and Management Income per Operator is a measure of the return to the operator for his labor and management that he has invested in the farm business, and is a common measure for comparing the overall results of farm operations. The average Income per Operator from the 16 farms sampled was \$20,032. In addition to the labor and management income, the operator usually has certain privileges such as a house to live in, use of an automobile, utilities, eggs and poultry to use and other miscellaneous items.

The last Statewide Poultry Summary in 1983 also posted a positive average income. Three years prior, 1980-1982, however the average income per operator was -\$19,952. In 1986, the Income per Operator varied widely with a range of negative incomes to some with over \$30,000.

#### POULTRY FARM INCOME STATEMENT

#### Receipts

The size and the nature of a business many times can be assessed by examining its receipts. The size of many nonfarm businesses are measured in terms of gross sales. However, in the egg industry egg prices fluctuate causing substantial fluctuations in gross sales.

Below, Total Cash Farm Receipts are converted to accrual Total Farm Receipts by adjusting for any increase in inventory. Inventory increases are usually due to expansion or improvements or to changes in operations. Because increases in inventory could have been converted to cash and sold, they are considered here as receipts when summarizing the business data.

Table 4. FARM RECEIPTS

	My	9 Farms with	7 Farms with
Item	Farm	Poultry Only	Poultry & Other
Egg		\$785,341	\$779,700
Poultry		40,246	13,888
Livestock		0	14,242
Crops		0	5,936
Custom Work		0	35,126
Gov't payments			
and refunds		965	32,816
Misc.		6,343	37,590
Total Cash			
Farm Receipts		\$832,895	\$919,298
Inv. Increase		10,376	4,364
IIIV. IIIOI CUBC		101370	4,304
Total Farm Receipts		\$843,271	\$923,662
Analysis:			
Average Price			
per dozen Sold		\$ .612	\$ .600
Cash Receipts		•	,
per Worker		\$147,560	\$107,971

Total Farm Receipts for both farm categories, poultry only and poultry with other, were very close. However, egg sales on farms with only poultry comprised 93% of total receipts and only 84% on

farms with other enterprises.

#### Expenses

Cost information is needed in order to control production costs and to understand where and how to become more cost efficient.

Table 5. FARM EXPENSES

T.L	My	9 Farms with	7 Farms with
Item	Farm	Poultry Only	Poultry & Other
Replacements			
Chicks purchased		\$19,341	\$16,536
Pullets purchased		67,370	50,624
Feed		•	
Layer Feed		336,233	234,723
Grower Feed		32,348	23,490
Labor		•	•
Hired Labor		50,820	95,897
Machinery		•	ŕ
Machinery Hire		4,905	5,335
Poultry Equip. Repair		3,392	12,701
Machinery Exp.		6,064	5,480
Gas and Oil		4,116	14,883
Poultry		·	·
Poultry Supplies		73,979	77,223
Crop		·	·
Crop Expenses		0	27,679
<u>Real Estate</u>			
Land & Building Repair	s	2,527	4,207
Taxes		4,058	8,273
Insurance		8,819	15,405
<u>Other</u>			
Utilities		20,522	17,598
Eggs purchased		42,387	168,700
Other Livestock exp.		0	5,840
Miscellaneous		<u>39,659</u>	46,435
Total Cash Expenses		\$716,540	\$831,027
Machine Depreciatio	n	24,494	31,433
Real Estate Depre.		12,172	9,388
Inventory Decrease		3,161	6,751
Unpaid Labor		2,500	<u>1,286</u>
Total Farm Expenses		\$758,867	\$879,885

The miscellaneous expense item contains expenses such as

interest paid, office expenses, dues, travel, etc.

Total Farm Expenses were higher for poultry farms with other enterprises due primarily to higher labor costs, machinery expenses and crop expenses. Total farm expenses per day were \$2,079 and \$2,411 for "poultry only" farms and "poultry and other" farms respectively.

The price per dozen the farmer receives for his eggs is an important factor in determining the profitability of the business. The table below illustrates the relationship between the average egg price received at the farm and the Income per Operator.

Table 6. PRICE PER DOZEN
AND LABOR AND MANAGEMENT INCOME

Price	Labor and Management
per dozen	Income/Operator
(cents)	
< 55	\$ <b>-</b> 9,466
55 <b>-</b> 65	12,625
> 65	18,817

#### Income Summary

The financial success of a poultry business can be measured in various ways, and there is no one best measure. This summary used the following measures:

- 1) Farm Income and Labor and Management Income
- 2) Rate of Return on Investment
- 3) Net Farm Cash Flow and Debt Repayment Ability

<u>Farm Income</u> measures the return from the business to the operator(s) for labor and management and capital and is the difference between total receipts and total expenses (accrual basis).

<u>Labor and management Income per Operator</u> is the return to each farm operator for his time and efforts.

The labor and management incomes varied widely among all farms in the survey with 10 of the 16 farms showing a negative income per operator and 6 farms showing a positive income per operator.

Table 7. FARM INCOME AND LABOR AND MANAGEMENT INCOME

	My	9 Farms with	7 Farms with
	Farm	Poultry Only	Poultry & Other
Total Farm Receipts _		\$843,271	\$923,662
Total Farm Expenses _		( <u>758,867</u> )	( <u>879,885</u> )
Farm Income		\$84,404	\$43,777
Int. on Capital		(29,919)	(42,790)
Labor & Management			
Income/Farm _		\$54,485	\$ 987
No. of Operators		1.4	1.6
Labor & Management			
Income/Operator		\$38,703	\$ 634

Rate of Return on Investment is calculated by subtracting a charge for the operator's labor and management from the "farm income" and then dividing by the average investment for the year. In the above calculation, \$15,000 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.

Table 8. RATE OF RETURN ON INVESTMENT

Item	My Farm	9 Farms with Poultry Only	7 Farms with Poultry & Other
Farm Income		\$84,404	\$43,777
Value of Operator's Labor & Management		( <u>22,567</u> )	(23,643)
Return on Investment		\$61,838	\$ 20,134
Avg Capital Investment		\$648,418	\$804,134
Rate of Return on Investment		9.5%	2.5%

Net Farm Cash Flow reflects the cash that is available from the year's operation for family living, 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 \$15,000 per operator. It is assumed here that new machinery and real estate are purchased with borrowed capital. This measure is useful for planning debt repayment schedules.

Table 9. NET FARM CASH FLOW AND DEBT REPAYMENT ABILITY

Item	My	9 Farms with	7 Farms with
	Farm	Poultry Only	Poultry & Other
Total Cash Receipts Total Cash Expenses		\$832,895 ( <u>716,540</u> )	\$919,298 ( <u>831,027</u> )
Net Farm Cash Flow _		\$116,355	\$ 88,271
Family Living Expenses _		( <u>22,567</u> )	( <u>23,643</u> )
Debt Repayment Ability _		\$ 93,788	\$ 64,628

#### 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 year's average inventory is used as a measure of the capital investment in the business. It is suggested that the inventory reflect its "market value".

Table 10.

	Му	9 Farms with	7 Farms with
Item	Farm	Poultry Only	Poultry & Other
Machinery and Equipment		\$204,511	\$212,800
Real Estate		320,159	412,093
Other		123,748	<u>179,241</u>
Total Inventory		\$648,418	\$804,134

More important than the amount of capital is how effectively it is used. Capital that is "not productive" and does not provide the farmer with a high enough rate of return may indicate that money has been unwisely invested. Below are some measures used in analyzing the efficiency of the use of capital. These measures will be helpful in finding possible sources of "nonproductive" capital.

Farms having other enterprises generally have larger investments because of the additional land and machinery used in the other enterprises. However, Total Investment/Worker is smaller on farms with other enterprises because of the larger work force for both the poultry and other operations.

Table 11. CAPITAL INVESTMENT ANALYSIS

	Му	9 Farms with	7 Farms with
Item	Farm	Poultry Only	Poultry & Other
Total Investment/Worker_ Total Investment/Hen		\$114,877 11.42	\$ 94,445 16.20
Machinery & Equip/Hen Land & Buildings/Hen		3.60 5.64	4.29 8.30
<pre>% Land and Building   of Total Inventory</pre>		49.4%	51.2%
Capital Turnover		1.30	1.15

<u>Capital Turnover</u> is used to measure how many times the business' total investment can be recovered from one year of sales. It took less than one year for both farm categories to recover their total business investment.

#### PRODUCTION ANALYSIS

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 and helps to show 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 have larger incomes. There are two basic reasons for this. Larger businesses can make more efficient use of fixed cost inputs such as equipment, regular labor force, and other fixed cost items. Secondly, there are more units of production (hens) from which to make a profit. However, when a business is unprofitable, these same factor operate and large farms have larger losses.

Table 12. MEASURES OF SIZE OF BUSINESS

	My	9 Farms with	7 Farms with	
Item	Farm_	Poultry Only	Poultry & Other	
Number of Hens Dozens Sold Dozens Produced		\$ 56,779 1,283,858 1,221,081	\$ 49,632 1,298,779 1,038,396	
Worker Equivalent		5.6	8.5	
Total Farm Receipts		843,271	923,662	
Total Investment		662,510	815,467	

#### 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 13.

#### RATES OF PRODUCTION

Item	My	9 Farms with	7 Farms with
	Farm	Poultry Only	Poultry & Other
Eggs produced/Hen		258	251
Eggs sold/Hen		271	314

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

Egg production per hen in the 1983 Summary was 249 for both farm categories. Production in 1986 increased to 258 and 251 for farms with poultry only and for poultry and other respectively.

The relationship of egg production per hen and labor and management income per operator is illustrated below.

Table 14. EGG PRODUCTION PER HEN AND LABOR AND MANAGEMENT INCOME

Eggs Produced per Hen	Average Number of Hens	Labor and Management Income/Operator
< 240	24,018	\$ <b>-</b> 20,063
240 <b>- 2</b> 59	73,194	27,549
> 260	53,837	3,739

The largest income group was that with an average production of 240-259 eggs per hen. This may have been due to the large farms in that category rather than there being any special operating efficiency at 240 - 259 eggs per hen. Also, the larger farms that did post higher incomes may be more susceptible to problems due to multiple age groups which may have reduced egg production somewhat.

#### 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 workers as well as himself, he must keep close watch on the factors which affect labor efficiency.

Table 15. MEASURES OF LABOR EFFICIENCY

Measure	My	9 Farms with	7 Farms with
	Fa <b>r</b> m	Poultry Only	Poultry & Other
Dozens sold/worker* Dozens produced		229,723	139,638
/worker		214,939	114,551
Number hens/worker		10,116	5,471

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

The farms with poultry and other had lower labor efficiencies than the farms with poultry only. The lower dozens sold per man on these farms reflects the considerable amount of work invested in cropping, livestock and other activities that has been added into the poultry enterprise.

When analyzing your labor efficiency consider:

- Size of operation it tends to reduce the fixed costs per unit.
- Extent of marketing 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 people work.
- 6. Clarity of directions given to workers.
- 7. Incentives and motivation.

#### Cost Control

The 9 poultry only farm expenses averaged \$2,079 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, labor and machinery 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 costs.

Table 16. COST CONTROL MEASURES

	Му	9 Farms with	7 Farms with
Item	Farm	Poultry Only	Poultry & Other
Value of layer			
feed/hen	\$	\$5.94	\$5.40
Layer feed/doz. produced	***************************************	28	26
Lbs. feed/doz. produced		3.83	4.12
Total labor cost:			•
/hen*	\$	\$ 1.34	\$2.43
/doz produced		6.2¢	11.6¢
/doz sold		5.9¢	9.3¢
Building repairs/hen		\$ 4.4	8.5
Utilities/hen		36.1	35.5
Taxes/hen		7.1	16.7
Insurance/hen		15.5	31.0
Total farm production expenses/hen (total			
less inventory incre and eggs bought)	\$	\$12.44	\$14.24
Total expenses/	۵	401 22	405 55
\$100 receipts	\$	\$91.11	\$95.71

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

For the above measurements, it must be kept in mind that the "poultry and other" farms had other enterprises which affect several cost control measures. As a result, the total expenses per hen are generally higher on the poultry and other farms.

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

Table 17. POWER AND MACHINERY COSTS

Item	My Farm	9 Farms with Poultry Only	7 Farms with Poultry & Other
Beg Inventory	Management of the Control of the Con	\$212,634	\$218,797
New machinery	-	8,671	19,508
Total (1)		\$221,305	\$238,305
End inventory Machinery sold		\$196,389 <u>422</u>	\$206,804 68
Total (2)		\$196,811	\$206,872
Depreciation (1 minus 2) Int. @ 9% av.		\$ 24,494	\$31,434
inventory		7,940	10,640
Gas and oil		4,116	14,883
Machinery expense		9,456	18,181
Machine hire		4,905	5,335
Utilities	***************************************	20,522	<u>17,598</u>
Total Power & Mac	ch.		
Cost Less: Gas tax refund & Income from	đ	\$ 71,433	\$ 98,071
machine work		18,287	79,060
NET POWER AND			
MACHINERY COST		\$ 53,146	\$ 19,011
Net power and machi	nery costs:		
/hen		\$ 0.94	\$ 0.38
/worker		\$9416.	\$2233.
/dozen eggs produ	ced*	\$ 0.04	\$ 0.02

<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. Often nearly half of the total cost is represented by these two "overhead" items. One farm had a very large cost and income from custom work having a major influence on net power and machinery costs.

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 18. LABOR COSTS

Item	My Farm	9 Farms with Poultry Only	7 Farms with Poultry & Other
Value of operator's labor* Hired labor Unpaid family labor	\$	\$ 22,567 50,820 2,500	\$ 23,643 95,897 1,286
TOTAL LABOR COSTS	\$	\$ 75,887	\$ 120,825
Labor cost/hen	\$	1.337	2.434
Labor cost/dozen produced	1000-111-111-111-111-111-111-111-111-11	0.062	.116

<sup>\*</sup>Valued at \$15,000 per operator.

For the 16 poultry farms, the labor cost was greater than the power and machinery cost. 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 19. LABOR, POWER AND MACHINERY COSTS

Item	<b>M</b> y Farm	9 Farms with Poultry Only	7 Farms with Poultry & Other
Total Labor Costs Net Power &	\$	\$ 75,887	\$ 120,825
Machinery Costs		<u>53,146</u>	<u>19,011</u>
TOTAL LABOR & MACHINERY COSTS	\$	\$129,034	\$ 139,836
Labor & machinery cost:			
/hen /dozen sold	\$	\$ 2.27 \$ 0.11	\$ 2.82 \$ 0.13

Table 20. LABOR USE ANALYSIS

Item	My Farm	9 Farms with Poultry Only	7 Farms with Poultry & Other
Months of hired labor Hired labor expense Hired Labor exp/month Total labor cost/month	\$ \$ \$	46.3 \$50,820 \$ 1,097 \$ 1,112	76.6 \$95,897 \$1,252 \$1,176
<pre>% of total labor by:    Operator    Unpaid family    Hired</pre>	% %	— · · · · •	18.4% 2.5% 79.1%

#### Comparison of Recent Summaries

Businessmen must keep abreast of changes that are taking place. The poultry industry has changed more than many other 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 number of farms sampled varies from year to year, and there are also some changes in individuals each year.

Table 21. NEW YORK POULTRY FARM SUMMARIES, 1980-1986

Factor	1980	1981	1982	1983	1986
Number of Farms	24	26	26	21	16
Worker equivalent	4.3	4.3	3.7	4.9	6.9
Number of hens	40,390	40,719	28,727	39,497	53,652
<u>Investment</u>					
Land & Buildings	\$267,174	\$264,449	\$216,146	\$270,548	\$360,380
Machinery	109,693	118,274	113,613	153,654	208,137
Other	115,545	108,401	91,258	112,437	148,026
Total	\$492,144	\$491,124	\$421,017	\$536,639	\$716,544
<u>Receipts</u>					
Egg sales	\$506,927	\$561,757	\$420,704	\$572,180	\$782,873
Livestock sales	18,832	22,501	24,730	35,620	34,946
Other	35,040	21,263	<u>36,865</u>	38,216	52,878
Total	\$560,799	\$605,521	\$457,569	\$646,016	\$870,697
<u>Expenses</u>					
Feed bought	\$305,982	\$299,047	\$183,480	\$282,465	\$320,295
Hired labor	30,980	30,385	26,280	39,919	70,542
Chicks & pullets	48,870	50,806	32,568	54,050	78,158
<b>Utilities</b>	8,490	9,497	10,218	13,312	19,243
Other	<u>193,296</u>	181,984	144,294	161,818	278,392
Total	\$587,618	\$571,719	\$396,840	\$551,564	\$766,629
Business Factors					
Av. price/doz.	54.8¢	63.3¢	58.6¢	61.3¢	60.4¢
Eggs /hen	240	231	237	249	255
Hens /worker	9,400	9,383	7,956	7,995	7,744
Lbs. feed/doz.	4.0	4.3	4.0	4.2	3.9
Labor inc./oper.	<b>\$-47,</b> 536	\$ -8,278	\$ -4,178	\$17,601	\$21,008

#### Cost of Eggs Sold

The farm cost of eggs sold off the farm was calculated by adding 1) an estimate of the value of the operator's labor and management and 2) an interest charge on the capital used to the total farm expenses. The value of the operator's labor and management was estimated at \$15,000 per year. Receipts for items other than eggs are credited against the total cost on the assumption that these items were sold at cost.

Table 22. AVERAGE FARM COST OF EGGS SOLD

Item		My Farm	9 Farms with Poultry Only
Total Farm expenses Interest on average	\$	·	\$758,867
capital @ 9%			29,919
Value of Operator's La	bor*		22,567
Total Cost		\$	\$811,353
Total receipts Less egg sales Other Income	\$		\$843,271 ( <u>785,341)</u> \$ 57,931
Total Cost of Eggs So (Total Cost less Other Income)	old	\$	\$753,423
Dozen eggs sold Cost /dozen eggs sold Average price received	ı		

<sup>\*</sup>Figured at \$15,000 per operator.

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 selling eggs has limitations but it does give a general indication of the overall costs. This method was applied to the 9 farms with poultry only to avoid the added costs of the other enterprises.

Another approach to calculating costs is to examine the cost of eggs produced. This has been done below for the 9 poultry only farms.

Table 23. COST ITEMS IN PRODUCING A DOZEN EGGS
9 New York Poultry Only Farms

	Cost per D	ozen Produced
Item	Amount	Percent
	(cents)	
Feed for layers	27.5	49.2%
Replacements:		
Chicks & pullets		
bought	7.1	12.7%
Grower feed	<u>2.6</u>	<u>4.7%</u>
Total	9.8	17.4%
Less sale of birds	2.2	( <u>3.9%)</u>
Net Replacement Cost	7.5	13.5%
Labor	4.2	7.4%
Power & machinery (without		
interest)	3.1	6.6%
Interest on capital	2.5	4.4%
Poultry supplies, etc.	6.1	10.8%
Taxes & insurance	1.1	1.9%
All other (less eggs purchased)	3.5	6.2%
Total	55.9	100.0%

The feed cost/dz of 27.5 cents is the total layer feed expense divided by the dozen of eggs produced. Feed for layers accounted for 49.2 percent of the total cost of producing a dozen eggs.

Replacement costs include the expense for chick and pullets bought and grower feed. Fuel and other direct costs involved in rearing are not included here, but are included in the "All other" items listed. Hence, this replacement cost is on the low side. Receipts from birds sold are subtracted to get a "net" replacement cost. Replacements accounted for about 13.5 percent of the total cost.

The labor item includes a value for the operator's labor but not his management. The interest charge in power and machinery costs shown on page 15 was taken out since it is included here in interest on capital. Building repairs, depreciation and interest paid would be items in "All other".

Table 24. COMPARISON OF COSTS OF PRODUCING EGGS IN RECENT YEARS NEW YORK POULTRY FARMS

	Price/	Farm	Layer	Feed	Costs	Labor
	Dz.	Cost/	Per	Per	% Total	Cost/
Year	Sold	Dz.*	Cwt.	Dz.	Cost	Dz.
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
1981	63.3	61.4	8.40	35.0	57	4.5
1982	61.4	63.1	8.28	32.1	51	6.9
1983	63.2	60.2	8.39	34.6	58	4.4
1986	61.4	55.9	6.91	27.5	49	7.5

<sup>\*</sup>For "Poultry Only" farms in business summaries.

## FARM BUSINESS SUMMARY 9 New York Poultry Farms

CAPITAL INVESTMENT		RECEIPTS	
Machinery & equip.	\$204,511		
Other	123,748	Egg sales	\$785,341
Land & buildings	320,159	Poultry sold	40,246
		Other livestock	0
TOTAL INVESTMENT	\$648,418	Crop sales	Ö
	, , , , , , , , , , , , , , , , , , , ,	Miscellaneous	7,308
<u>EXPENSES</u>			
		Total Cash Receipts	\$832,895
Replacements		Inventory Increase	10,376
Chicks bought	\$ 19,341		
Pullets bought	67,370	TOTAL FARM RECEIPTS	\$843,271
Feed	0,,0,0		40.0/2/2
Layer feed bought	336,233	FINANCIAL SUMMARY	
Other feed	32,348		
Labor	,	Total Farm Receipts	\$843,271
Hired	50,820	Total Farm Expenses	758,867
Unpaid	2,500		
Power & Machinery	-,	Farm Income	\$ 84,404
Machine hire	4,905		,,
Equipment expense	9,456	Interest on average	
Gas & oil	4,116	capital @ 9%	29,919
Utilities	20,522		
Poultry	·	Farm Labor Income	\$ 54,485
Eggs bought for resal	le 42,387		·
Supplies	73,979	Number of operators	1.4
Crop	·	•	
Crop expense	0	LABOR INCOME/OPERATOR	\$ 38,703
Real Estate		•	•
Land, bldg., &		BUSINESS FACTORS	
fence repair	2,527		
Taxes	4,058	Worker equivalent	5.6
Insurance	8,819	Number of hens	56,779
<u>Other</u>	·	Dzs produced	1,221,081
Miscellaneous	39,659	Eggs produced/hen	258
Inventory Decrease	3,161	Doz. of eggs	
Depreciation	36,666	produced/worker	214,939
-	·	Hens /worker	10,116
TOTAL FARM EXPENSES	\$758,867	Lbs feed/doz produced	3.83
	·	Av. price/cwt. feed	
		bought	\$7.21
		Av. price/dz. eggs	61.2

### FARM BUSINESS SUMMARY - AVERAGES PER HEN 9 New York Poultry Farms

g sales ultry sold op sales scellaneous  Total Cash Receipts Inventory Increase  TOTAL FARM RECEIPTS  NANCIAL SUMMARY  tal Farm Receipts tal Farm Expenses  Farm Income  terest on average capital @ 9%		13.83 .71 0 .13 14.67 .18 14.85 13.37
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<b>-</b>		
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capical 6 30		.53
Farm Labor Income	\$	.95
BOR INCOME/OPERATOR/	HEN	\$ .82
	Farm Labor Income	Farm Labor Income \$

### FARM BUSINESS SUMMARY 16 New York Poultry Farms

ALDINA TURE ANTONIO		DUONITOMO	
CAPITAL INVESTMENT	¢200 127	RECEIPTS	
Machinery & equip.	\$208,137	7	4000 000
Land & buildings	360,380	Egg sales	\$782,873
Other	148,026	Poultry sold	28,714
TOTAL INVESTMENT	\$716,544	Other livestock	6,231
	·	Crop sales	2,597
EXPENSES		Miscellaneous	<u>50,281</u>
Replacements		Total Cash Receipts	\$870.696
Chicks bought	\$ 18,114	Increase in Inventor	
Pullets bought	60,044		-1
Feed	30,011	TOTAL FARM RECEIPTS	\$878,442
Layer feed bought	291,822		40,0,1.0
Other feed	31,028	FINANCIAL SUMMARY	
Labor	,		
Hired	70,541	Total Farm Receipts	\$878,442
Unpaid	1,969	Total Farm Expenses	811,812
Power & Machinery	_,		
Machine hire	5,093	Farm Income	\$ 66,630
Equipment expense	13,274		4 00/000
Gas & oil	8,827	Interest on average	
Utilities	19,243	capital @ 9%	35,550
Poultry			
Eggs bought for resal	e 97,649	Farm Labor Income	\$ 31,080
Supplies	75,398		7 02/000
Crop	, , , , , ,	Number of operators (	33) 1.48
Crop expense	12,110		,
Real Estate		LABOR INCOME/OPERATOR	\$ 21,008
Land, bldg., &			7 22/000
fence repair	3,262	BUSINESS FACTORS	
Taxes	5,902	277777	
Insurance	11,700	Worker equivalent	6.9
Other		Number of hens	53,652
Inventory Decrease	4,732	Doz eggs (produced)	1,141,156
Miscellaneous	42,624	Don eggs (produced)	1,141,130
Depreciation	38,484	Eggs produced/hen	255
Depicolación	30,404	1995 produced/ hen	233
TOTAL FARM EXPENSES	\$811,812	Doz. of eggs	
		produced/worker	165,385
		Hens/worker	7,776
·		Lbs. feed/dz produced	3.94
		Av. price/cwt. feed	
		bought	6.91
		Av. price/dz. eggs	60.4¢
		- /	

#### Progress of the Farm Business

Comparing your own business to other poultry farms is very helpful. However, in order to set future goals, you must compare your current situation with that of previous years'. You may then assess what your future progress should be. Your business analysis on the preceding pages provides the factors for 1986. You will need to refer to earlier summaries for the 1982 and 1983 factors.

	1982	1983	1986	Target 1987
Size of Business Average number of layers Value of egg sales Worker equivalent	\$	\$	\$	\$
Rate of Production Eggs produced /hen				
Labor Efficiency Hens /worker Dz. eggs sold/worker				
Capital Efficiency Total inventory value Total investment/hen Farm receipts /\$100	\$ \$	\$ \$	\$ \$	\$ \$
investment	\$	\$	\$	\$
Cost Control Layer feed bought /hen Lbs. feed /dozen eggs Labor cost /hen Machinery cost /hen Total expense /\$100	\$ \$ \$	\$ \$ \$		
receipts	\$	\$	\$	\$
<u>Prices</u> Average price /dozen	\$	\$	\$	\$
Financial Summary Total Farm Receipts Total Farm Expenses Labor & management income	\$ \$	\$ \$		\$ \$
/operator  Total debt outstanding	\$	\$	\$	\$
Debt /hen	\$	\$ \$	\$	\$ \$
Net Worth	\$	\$	\$	\$

### SUMMARY OF SELECTED POULTRY FARM MANAGEMENT FACTORS 9 Poultry Only Farms

#### NAME

Item	Your Farm	1986
Avg. Number of Layers		56,779
Eggs Produced/Hen		258
Pounds of Feed/Dozen		3.83
Feed Cost/Ton (\$)		144.23
Feed Cost/Dozen Produced (¢)		27.50
Cash Cost/Dozen Sold (¢)		58.68
Price Received/Dozen Sold (¢)		61.20
Total Cash Operating Receipts (\$)		832,895
Total Cash Operating Expenses (\$)		716,540
Net Cash Flow (\$)		116,355
Debt Repayment Ability (\$)		93,788
Average Farm Inventory (\$)		648,418
Labor Income/Operator (\$)		38,821