FARM BUSINESS ANALYSIS AND SUMMARY

26 Grape Farms in the Finger Lakes Region 1969

B. A. Dominick, Jr. G. C. Smith T. W. Markham

Yates County Cooperative Extension Service, Steuben County Cooperative Extension Service, and

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

,

FARM BUSINESS ANALYSIS AND SUMMARY

26 Finger Lakes Grape Farms 1969

This is a summary and analysis of records obtained from 26 Finger Lakes grape growers for the 1969 calendar year. The records were obtained on a survey form by Mr. G. C. Smith, Cooperative Extension Specialist, Finger Lakes Grape Industry Program, and Mr. T. W. Markham, Cooperative Extension Agent, Steuben County Extension Service.

The 26 farms included in this report were not selected at random and the data contained herein do not reflect the average costs and returns in producing grapes in the Finger Lakes area. Growers included were those interested in taking a closer look at their farm businesses and in comparing their operations with the averages for the group. However, this report provides a framework for summarizing and analyzing the farm business and can be useful to any grape grower. It also provides standards which a grower can use as a basis for comparison to see how his operations measure up to these averages.

Grapes were by far the most important enterprise on all of the farms studied. The grape enterprises were considerably above average in size. These producers averaged 64 acres of grapes (bearing and non-bearing) while the average in the Finger Lakes in 1966 was 18.5 acres (10,819 acres reported by 585 farms). Only one of the 26 farms included in this study had fewer than 18.5 acres. This fact reinforces the statement that these are not average farms. They include some of the best managed and most productive grape farms in the area. Another measure of their outstanding performance is indicated by the fact that these farms,



while accounting for less than one-half of one per cent of the number of farms in this area, produced 5,967 tons of grapes, or 14.5 per cent of the total tons reported purchased from the Finger Lakes area by New York State wineries and processing plants in 1969. The year was unusually favorable for Finger Lakes growers. Total production in this area in 1969 as indicated by processing plant receipts was 41,011 tons compared with 26,677 tons in 1968 -- an increase of 54 per cent -- while in the Chautauqua-Erie area receipts were 50,975 tons in 1969 compared with 56,765 tons in 1968 -- a decrease of 10 per cent. Another indication of the favorable production conditions was the average yield in 1969 on these farms of 4.0 tons of grapes per acre. In 1964, when the last farm management study was made in this area, the average yield was 3.4 tons per acre. The extremely favorable average labor income for the one year reported in this study was the result of excellent management as well as increased yield and higher average price for each grape variety sold. The weighted average price based on primary utilization of grape varieties weighted by amount of the leading varieties used (during the period 1964-1967) was \$147 per ton in 1964. For 1969 this average was \$202. In 1968 the average was \$156 per ton.

B. A. Dominick, Jr., Professor, Department of Agricultural Economics, Cornell University, G. C. Smith, Cooperative Extension Specialist, Finger Lakes Grape Industry Program, T. W. Markham, Cooperative Extension Agent, Steuben County Extension Service.

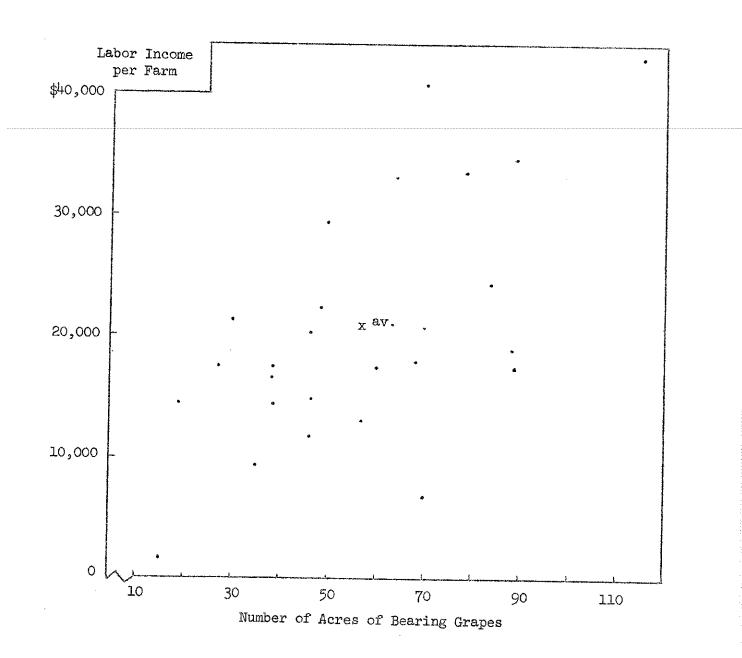
e production of the second sec

MEASURING THE PROFIT OR LOSS FROM THE FARM BUSINESS IN 1969

Item	My Farm	Average - 26 Farms
Average farm inventory	\$	\$ <u>92,</u> 450
Farm receipts, grapes	\$	\$48,152
Farm receipts, other		10,020
Total farm receipts	\$	\$58,172
Farm expenses		31,322
Farm income	\$	\$26,850
Interest on capital @ 7 per cent		6,472
Labor income per farm	\$	\$20,378

Labor income is the return the farm operator receives for his labor and management, in addition to the use of a house and products from the farm. It is the amount left after paying all farm expenses, and deducting a charge for unpaid family labor, and for interest on all of the capital invested in the business.

The average labor income on the 26 farms was \$20,378. The range was from \$1,895 to \$42,673.



DISTRIBUTION OF LABOR INCOMES OF GRAPE FARMS OF DIFFERENT SIZE

CAPITAL INVESTMENT Farm Inventories, End of Year

Item	My Farm	Average - 26 Farms	Per Cent of Total
Livestock	\$	\$ 528	1
Crops, feed and supplies		2,929	3
Machinery and equipment		15,308	16
Land and buildings		77,276	80
Total farm inventories	\$	\$ <u>96,041</u>	100
Man equivalent		3.9	
Investment per man	\$	\$24,626	
Number of acres of grapes	**************************************	64	
Total farm investment per acre of grapes	\$	\$ 1,501	
Number of crop acres		70	
Investment per acre in crops	\$	\$ 1,372	

Based on end of year inventory values, the total investment on the 26 grape farms averaged \$96,041.

Investment costs are an important part of your costs of operation. If yours are out of line in relation to your production capacity, this means an added burden in overhead cost.

and the second of the second o

FARM RECEIPTS

Item	My Farm	Average - 26 Farms	Per Cent of Total
Fotal grape receipts	\$	\$48,152	83
Other crop receipts		486	1
Livestock products and livestock sales	Security of the second section of the section of the second section of the section of the second section of the	1,327	2
Miscellaneous receipts	·	1,291	2
Increase in inventory	-	6,916	12
Total farm receipts	\$	\$ <u>58,172</u>	100

Grape income comprised 83 per cent of total farm receipts.

Increase in inventory is included as a farm receipt because it is assumed that the added inventory value could be turned into cash at the owner's discretion. The increase in inventory came about through additional investment in machinery and in land and buildings.

FARM EXPENSES

Item	My Farm	Average - 26 Farms	Per Cent of Total
Livestock expense	\$	\$ 845	3
Lime and fertilizer	***	1,112	14
Seeds and plants	and the second s	215	*
Storage and containers		496	2
Spray materials	***	1,153	14
Vineyard and other crop expense		1,366	4
Gas and oil		887	3
Auto and truck		277	1
Equipment repair		1,361	4
Machine hire	**************************************	2,140	7
Real estate upkeep	WWW.mapus.immuni.gov.eyagagagagaga	389	1
Labor	the second secon	12,339	40
Telephone and electricity	**************************************	278	1
Taxes and insurance		1,572	5
Miscellaneous farm expense	- Thirties in Miles	1,357	4
New buildings		157	*
New machinery		5,145	17
Livestock bought	**************************************	51	*
Unpaid family labor	of all and the second s	182	*
Total farm expenses	\$	\$31,322	1.00

Farm expenses on these 26 farms averaged \$31,322. Hired labor was the most important, accounting for 40 per cent of the total. Equipment costs were the next largest expense. The combined costs of gas, truck and auto, equipment repair, machine hire, and new machinery accounted for 32 per cent of all expenses.

^{*} Less than one per cent.

POWER AND MACHINERY COSTS*

Item	My Farm	Average - 26 Farms
Beginning inventory	\$	\$11,824
New machinery bought		<u>5,145</u>
Total	\$	\$16,969
End inventory	\$	\$15,308
Machinery sold		25
Total	\$	\$ <u>15,333</u>
Depreciation	\$	\$ 1,636
Interest at 7% av. inventory	The state of the s	950
Gas and oil	•	887
Machinery repairs	- Andrew - Andrew Labor	1,361
Machine hire		2,126
Auto expenses (farm share)		277
Electricity (farm share)	W-W 7-40-47-17-17-17-17-17-17-17-17-17-17-17-17-17	152
TOTAL MACHINERY COSTS	\$	\$ 7,389
Income from machine work	\$	\$ 163
Gas tax refund	\$	\$ <u>68</u>
NET MACHINERY COST	\$	\$ 7,158
Acres in grapes		64
Machinery cost per acre in grapes	\$	\$ 121
Man equivalent		3.9
Machinery cost per man	\$	\$ 1,835

All net machinery costs, including depreciation, totaled \$7,158. On the 26 grape farms, machinery costs on the basis of an acre in grapes averaged \$121.

Efficiency in the use of equipment is an important factor affecting profits in producing grapes.

^{*} Does not include housing or repair labor costs.

,

LABOR AND MACHINERY COSTS

Most farm operators justify major machinery purchases as a way to save labor and increase productivity. How well labor and machinery are combined has an important bearing on farm profits.

LABOR AND POWER AND MACHINERY COSTS

Item	My Farm	Average - 26 Farms
Value of operator's labor*	\$	\$ 6,438
Hired labor	*	12,339
Unpaid family labor	Franchista of Principles of Principles and Company	182
TOTAL LABOR COSTS	\$	\$18,959
Net power and machinery cost		7,158
TOTAL LABOR AND MACHINERY COST	\$	\$26,117
Total labor and machinery cost per acre in grapes	\$	\$ 408
Total labor and machinery cost per man	\$	\$ 6,697

^{*} Valued at a rate of \$5,400 per operator per year. There were 31 operators on the 26 farms included in this study.

andre de la companya La companya de la co

and the second The second s

en de la Mille de la companya de la companya de la Mille de Mille de la companya de la companya de la companya La companya de la co

and the control of t The control of the control of

Finger Lakes Grape Growers

Summary 1969

Measures of Size	My Farm	Average - 26 Farms
1. Acres in bearing grapes	***************************************	56
2. Acres in non-bearing grapes		8
3. Total acres in fruit		65
4. Total crop acres		70
5. Man equivalent		3.9
6. Total work units	- to be ' posteriories	562
7. Tons grapes produced	-	230
Labor Efficiency		
 Acres in bearing and non- bearing grapes per man 	and the second s	16
2. Tons grapes produced per man		59
3. Crop acres per man		18
4. Work units per man	The state of the s	144
Rates of Production		
1. Grape yield per acre (tons)	Special field Administration from Parket and Public	4.1
2. Grape receipts per acre of bearing grapes	\$	\$860
Degree of Specialization		
1. Per cent of work units on grapes	**************************************	98
Per cent of all receipts from grapes	***************************************	83

These business analysis factors show the size of the grape enterprise and its relation to the whole farm business on the 26 farms. They also show measures of labor efficiency and rates of grape production.

A grape producer can gain valuable information about the strong and weak points of his grape enterprise by comparing data from his business with the average on the 26 farms.

Finger Lakes Grape Growers
Summary
1969

AN ARRAY OF BUSINESS FACTORS - 26 FARMS*

Acres of bearing grapes	Tons of grapes produced per man	Yield per acre of bearing grapes	Investment per acre of grapes (bearing and non-bearing)	Per cent of total work units on grapes
		(tons)	(dollars)	
115	95	5.6	784	100
89	88	5.6	868	100
88	85	5.5	1101	100
84	79	5.4	1229	100
78	78	5.1	1234	100
70	77	5.0	1237	100
70	77	4.8	1297	100
70	7 5	4.8	1303	100
70	7 5	4.7	1354	100
68 _. ,	67	14 ° 14	1364	100
64	66	4.4	1474	100
60	65	4.1	1506	100
57	64	4.1	1565	1.00
50	63	4.0	1606	100
48	55	3.9	1666	1.00
46	54	3.7	1673	100
46	53	3.7	1694	100
46	49	3.7	1725	99
38	48	3.5	1781	98
38	48	3.4	1834	98
38	48	3.4	1923	97
35	1414	3.2	1974	97
30	<u> </u> <u> </u>	3.2	2064	96
27	43	3.1	2088	96
19	34	2.8	515/1	90
15	25	2.0	2643	84

^{*} Each column is independent of the others.

USE YOUR RECORDS

Good farm records are worth many dollars to the farm manager. Here are the most important uses:

- A Diary -- In planning work this month and this year, it helps to "check the record" to find out what action was taken last month or last year.
- To Analyze the Business -- The operator of a commercial farm business must move fast to keep up-to-date. Good records will show him the strong and weak points of his business. This information provides a foundation on which to make changes to build a more profitable business.
- For Tax Purposes -- Tax obligations make it a must to have complete records. Tax dollars can be saved every year by using farm records. Equally important are good records at the time of a sale of part or all of the farm property.
- For Family Partnerships -- When a farm is owned and operated by father and son or other family combination, records are necessary for fair treatment of all family members. Good records will settle many disagreements before they start.
- For Credit -- Most commercial farm businesses use credit. A record of cash receipts and expenses, together with an annual inventory are required by most lenders. Such records provide for wiser use of farm credit, and better understanding between borrower and lender.
- In Case of Family or Business Crises -- At the death of the farm operator, good records can save the heirs time, money, and heartache. Annual inventories are especially important for this purpose. Inventories are also worth a lot in case of a fire or other disaster.

Keeping farm records is only part of the job. Learning to use them is even more important. Don't be satisfied just to meet tax requirements. You owe it to yourself and your business to make greater use of your farm records. They can be your most valuable farm equipment.