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FARM BUSINESS ANALYSIS AND SUMMARY

12 Chautauqua County Grape Farms

1967

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FARM BUSINESS ANALYSIS AND SUMMARY 12 Chautauqua County Grape Farms 1967

This report is a summary and analysis of the farm business records kept by 12 Chautauqua County grape growers for the 1967 calendar year.

The records were kept under the Electronic Accounting Program with the assistance and supervision of T. D. Jordan, Associate County Agricultural Agent in Chautauqua County. Information recorded included expenses and receipts and beginning and ending inventories on each entire farm business.

Except for one farm, grape growing was the most important single enterprise on each of the 12 farms and 70 per cent or more of the total work units were used on this fruit.

The last grape record keeping project in this County covered the years 1956-1958. As was true in the earlier projects, growers included in this report were not selected at random. They were ones interested in a financial record of their businesses and a comparison with averages of other farms. This should be kept in mind as one studies this report. However, this report is useful to any grape grower. It provides a simple framework for summarizing and analyzing the farm business. Also, it provides standards which any grower can use as a basis for comparison to determine how his operations measure up to these averages.

T. D. Jordan, Associate Cooperative Extension Agent, Chautauqua County, supervised the records kept by the cooperating growers. This summary was prepared by Professors B. A. Dominick, Jr., and C. W. Loomis, Department of Agricultural Economics, Cornell University.

MEASURING THE PROFIT OR LOSS FROM THE FARM BUSINESS IN 1967

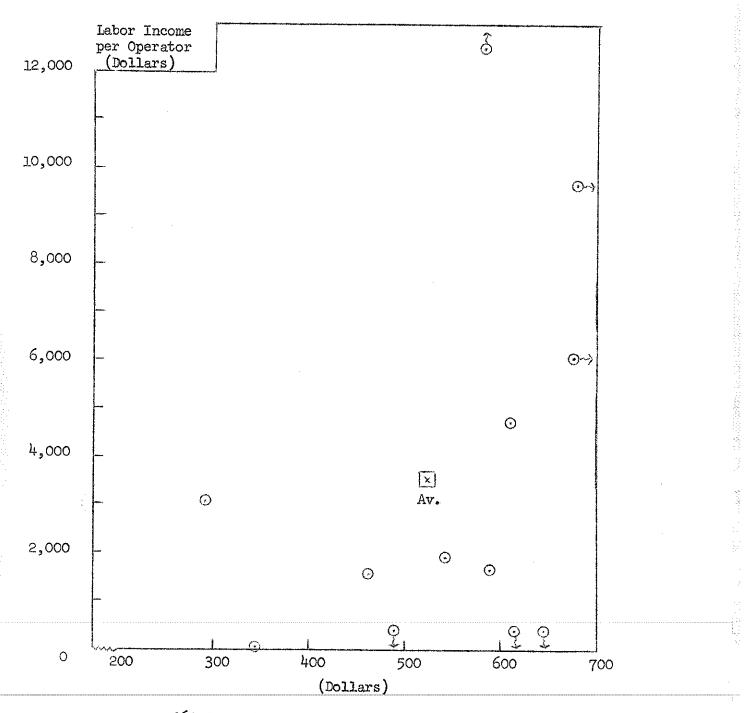
	Average per Farm
	1967
My Farm	12 Farms
\$	\$ <u>131,594.</u>
\$	\$ 30,395.
	17,255.
\$	\$ 47,650.
***	37,503.
\$	\$ 10,147.
•	6,580.
\$	\$ 3,567.
	14
\$	\$ 3,057.
	\$\$

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.

Because receipts from the grape crop are spread over two or three years, labor income as measured here for one year is somewhat misleading.

^{*} In calculating receipts, all cash income from grapes received in 1967 was included, regardless of what crop the payment was for. All grape certificates for the 1965-66 crops were valued at 55 per cent of the face value, and added to cash receipts.

DISTRIBUTION OF LABOR INCOMES



1967 Grape Receipts Per Acre Of Bearing Grapes

CAPITAL INVESTMENT

Farm Inventories, End of Year

<u> Items</u>	<u>My Farm</u>	Average per <u>Farm</u>	Per Cent of Total
Livestock	\$	\$ 2,492.	2
Crops, feed and supplies	-	2,784.	2
Machinery and equipment	****	17,684.	13
Land and buildings	***************************************	111,273.	<u>83</u>
Total farm inventories	\$	\$ <u>134,233</u> .	<u>100</u>
Man equivalent		4.5	edermyn wedderlang. Effect of gloveling press.
Investment per man	\$	\$ 29,830.	
Number of acres in grapes		60	
Investment per acre in grapes	\$	\$ 2,237.	
Number of acres in fruit	***************************************	63	
Investment per acre in fruit	\$	\$ 2,131.	
Number of crop acres		101	
Investment per acre in crops	\$	\$ 1,329.	

Based on end of year inventory values, the total capital investment on these 12 grape farms averaged \$134,233.

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

SOURCES OF INCOME

Farm Receipts

<u> Items</u>	My Farm	Average per <u>Farm</u>	Per Cent of <u>Total</u>
Grape receipts			
1967 crop	\$	\$ 17,000.	
1966 crop		6,833.	
1965 crop		2.060.	
1965-66 crop (certificate)	·	4,502.	
Total grape receipts*	\$	\$ 30,395.	64
Other crop receipts		4,752.	10
Livestock products and livestock sales		4,417.	9
Work off farm		141	**
Miscellaneous receipts		2,668.	6
Increase in inventory		<u>5,277.</u>	11
Total farm receipts	\$	\$ <u>47,650</u> .	100

Grape income comprised 64 per cent of total farm receipts. More than half of the grape income received in 1967 was for the current crop.

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,

^{*} Cash received during 1967, plus cash value of 1965-66 grape certificates calculated at 55 per cent of face value.

^{**} Less than one-half of one percent.

FARM EXPENSES

		Average per	Per Cent of	
<u> Items</u>	My Farm	<u>Farm</u>	<u>Total</u>	
Livestock expense	\$	\$ 453.	1	
Lime and fertilizer		2,149.	5	
Seeds and plants	The state of the s	443.	1	
Storage and containers		395•	1	
Spray materials	***************************************	850.	2	· •
Vineyard and other crop expense		1,185.	3	
Gas and oil		1,108.	3	
Auto and truck		141.	~	
Equipment repair		2,167.	6	
Machine hire	-	382.	1	
Real estate upkeep		676.	2	
Regular hired labor*	design of the second	3,561.	10	
Other hired labor*	·	11,217.	30	
Telephone and electricity		366.	1	
Taxes		1,777.	5	
Insurance		671.	2	
Miscellaneous farm expense		1,535.	1,	
New buildings	***************************************	2,217.	6	
New machinery	****	3,535.	9	
Livestock bought		1,675.	5	
Unpaid family labor		1,000.	3	
Total farm expenses	\$	\$ <u>37,503.</u>	100	

Farm expenses on these 12 Chautauqua County farms averaged \$37,503. 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 19 per cent of all expenses.

^{*} In some cases, the division of labor expense was estimated.

POWER AND MACHINERY COSTS*

Successful farm managers have substituted power and machinery for labor to a large degree. As this process continues, it is vitally important to retain control of the costs associated with owning and operating farm equipment.

Item	My farm	Average per farm
Beginning inventory	\$	\$16,545.
New machinery bought		3,534.
Total	\$	\$20,079.
End inventory	\$	\$17,684.
Machinery sold		364.
Total	\$	\$ <u>18,048.</u>
Depreciation	\$	\$ 2,031.
Interest at 5% av. inventory		856.
Gas and oil	Company of the Compan	1,108.
Machinery repairs	garraga garraga managan kangan ka	2,167.
Machine hire	***************************************	382.
Auto expenses (farm share)	and the special confidence of the special co	141.
Electricity (farm share)		<u> 197.</u>
TOTAL MACHINERY COSTS	\$	\$ 6,882.
Gas tax refunds	\$	\$ 105.
Income from machine work	age age of the state of the sta	848.
NET MACHINERY COST	\$	
Acres in crops	was described to the second of	101
Machinery cost per crop acre	\$	\$ 59.
Man equivalent		4.5
Machinery cost per man	\$	\$ 1,318.
		•

All net machinery costs including depreciation, totaled \$5,929. on the 12 grape farms, machinery costs on a crop acre basis averaged \$59.

Efficiency in the use of equipment is an important factor affecting profits in farming. These equipment costs varied from farm to farm.

^{*} 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

\$ 5,213. 14,778. 1,000. \$20,991.
1,000.
\$20,991.
<u>5,929.</u>
\$26 , 920.
\$ 267.
5,982.

^{*} Valued at a rate of \$5,400. per operator per year. Some farms had more than one operator.

		My Farm	Average per farm
Measures of	Size		
1. Ac	eres in bearing grapes	***************************************	58
2. Ac	cres in non-bearing grapes	***************************************	2
3. To	otal acres in fruit		63
4. To	otal crop acres		101
5. M	an equivalent		4.5
6. To	otal work units		931
7. T	ons grapes sold		322
Labor Effi	ciency		
1. A	cres in grapes per man		13
2. T	ons grapes produced per man		72
3 . C	rop acres per man		22
71. M	ork units per man		207
Rates of F	roduction		
1. G	rape wield per acre (tons)		5.6
2. 0	rape receipts per acre of bearing grapes	\$	\$524 .
Degree of	Specialization		
1. I	Per cent work units on grapes		75
2. I	Per cent gross income from grapes	<u></u>	64

These business analysis factors show the size of the grape enterprise and its relation to the whole farm business on the 12 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 12 farms.

AN ARRAY OF BUSINESS FACTORS

Acres of bearing grapes	Total work units	Yield per acre of bearing grapes	Investment per acre of grapes (bearing and non-bearing)	Percent of total work units on grapes
	<u>, , , , , , , , , , , , , , , , , , , </u>	(tons)	(dollars)	
110	1912	7.4	1072	100
100	1720	7.0	1351	100
95	1419	6.8	1606	97
65	1182	6.3	1652	97
63	860	6.0	1994	96
55	756	5.8	2248	96
45 45	707	5.6	2627	95
41	680	5.6	2718	91
141	569	5.1	2801	90
40	555	4.9	3007	70
25	512	4.3	3097	70
14	300	4.2	*	*

^{*} One farm with large enterprise other than grapes is omitted.

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 farmrrecords. 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.