	R
	AM
FAR	SUN
	S
	BUS

E.B. 94-27

FILE COPY

LAKE ONTARIO REGION NEW YORK 1993

Gerald B. White Alison DeMarree Linda D. Putnam

Department of Agricultural, Resource, and Managerial Economics College of Agriculture and Life Sciences Cornell University, Ithaca, New York 14853-7801

2

It is the Policy of Cornell University actively to support equality of educational and employment opportunity. No person shall be denied admission to any educational program or activity or be denied employment on the basis of any legally prohibited discrimination involving, but not limited to, such factors as race, color, creed, religion, national or ethnic origin, sex, age or handicap. The University is committed to the maintenance of affirmative action programs which will assure the continuation of such equality of opportunity.

,

ABSTRACT

This report is a summary of 1993 farm business data collected from 20 fruit farm businesses located in Western New York State. Apples are the predominant fruit crop. The data are presented as averages for all 20 farms. The business analysis includes a balance sheet, income statement, cash flow statement, and several financial and production analyses for the farms. Also included are blank columns for the user to enter his or her own farm data for comparison purposes.

ACKNOWLEDGEMENTS

The authors are Gerald B. White, Professor; Alison M. DeMarree, Regional Fruit Specialist; and Linda D. Putnam, Extension Support Specialist. Appreciation is expressed to the cooperating fruit farmers who provided the data summarized in this report.

•

1993 FRUIT FARM BUSINESS SUMMARY LAKE ONTARIO REGION

Table of Contents

PAGE

INTRODUCTION	1
Format Features	1
Apple Production and Prices in Recent Years	2
SUMMARY AND ANALYSIS OF THE FARM BUSINESS	3
Business Characteristics	3
Farm Financial Status	3
Income Statement	7
Profitability Analysis	11
Cash Flow Statement	13
Repayment Analysis	15
Capital Efficiency Analysis	1 7
Equipment Analysis	17
Labor Analysis	18
Cropping Program Analysis	1 9
Cost Control Factors	20
PROGRESS OF THE FARM BUSINESS	20

1993 LAKE ONTARIO FRUIT FARM BUSINESS SUMMARY

INTRODUCTION

Western New York fruit farmers, whose major crop is apples, are invited to participate in Cornell Cooperative Extension's fruit farm business summary program each year. Each participating farmer receives a comprehensive business summary and analysis of his or her farm business. This report presents averages for the data submitted by participating farmers for 1993.

The primary objective of the fruit farm business summary (FFBS) program is to help farm managers improve the financial management of their business through appropriate use of historical farm data and the application of modern farm business analysis techniques. The FFBS identifies the business and financial information farmers need and provides a framework for use in identifying and evaluating the strengths and weaknesses of the farm business.

A computer program is used to process the data collected from fruit farmers. This program enables an analysis to be produced on the farm as soon as the farmers' data are entered. This provides rapid processing of the information for timely use in the management of the farm business.

The farms in this study are primarily apple farms. An average of 81 percent of the receipts in 1993 was from the sale of apples. The data were not obtained from a random sample of all fruit farms in Western New York. Therefore, the analysis should not be used to represent the Western New York fruit industry.

Format Features

This report provides a set of tables which comprise a comprehensive analysis of the participating fruit farms. Worksheets are included to give fruit farmers an opportunity to summarize their business. The analysis tables have a blank column or section labeled "My Farm". It may be used to compare an individual farm business with the average performance of the 20 farms.

This report features:

- 1) A complete Balance Sheet and analysis including financial ratios.
- 2) An Income Statement including accrual accounting adjustments for farm business expenses and receipts, as well as measures of profitability with and without appreciation.
- 3) Forms for a Cash Flow Statement and Repayment Analysis Worksheets.
- 4) Analyses of Capital Efficiency, Equipment, and Labor.
- 5) A Cropping Program Analysis with Cost Control Factors.
- 6) A Three Year Comparison of selected business factors.

Apple Production and Prices in Recent Years

Apple production for the State was 20.7 million bushels in 1993. Western New York growers produced 13.1 million bushels or about 63 percent of the total State crop. Statewide, production was down 26 percent and in Western New York it was down about 28 percent compared to 1992.

Twenty-nine percent of the 1993 apple crop produced in Western New York was sold fresh. This was up from 28 percent of the crop for 1992. The 1993 fresh crop was 3.8 million bushels - down 24 percent from 1992. Processing apple production in Western New York decreased 29 percent from 1992 to 9.3 million bushels for 1993. Seventy-one percent of the Western New York crop was processing apples.

Net Freight-On-Board (F.O.B.) prices received per bushel for fresh apples in Western New York averaged \$8.11 per bushel, 21 percent higher than in 1992. The bulk price for fresh apples was \$4.80 per bushel. Western New York processing apple prices averaged \$2.97 per bushel or 7.1 cents per pound in 1993, 6 percent above 1992.

Statewide, fresh apple prices received by growers averaged \$7.31 per bushel net F.O.B., \$1.35 per bushel higher than the average 1992 price. Processing apples, produced mostly in Western counties, averaged \$2.79 per bushel or 6.6* per pound for 1993.

Item	1989	1990	1991	<u> </u>	1993
Production		I.	nillion bushel	s	
Fresh Apples Western New York New York State	5.2 10.5	5.5 12.4	4.3 10.0	5.0 12.4	3.8 9.5
Processing Apples Western New York New York State	11.0 12.4	9.8 11.2	12.9 15.0	13.1 15.5	9.3 11.2
All Varieties Western New York New York State	16.2 22.9	15.2 23.6	17.1 25.0	18.1 27.9	13.1 20.7
Average Price Received Per Bushel			dollars		
Fresh Apples Western New York F.O.B. less pkg.,	6.03	8.65	8.61	6.68	8.11
stg., etc. Bulk price Fruit Farm Business S	4.83	4.83 5.50	4.90 6.07	4.70 4.59	4.80 4.94
New York State F.O.B. less pkg.,					
stg., etc. Bulk price	6.22 4.83	7.48 4.83	8.44 4.90	5.96 4.70	7.31 4.80
Processing Apples Western New York Fruit Farm Business S New York State	2.87 Sum. 2.93 2.81	3.25 3.34 3.15	3.27 3.01 3.21	2.79 2.88 2.71	2.97 3.14 2.79

 Table 1.
 Apple Production and Prices, New York State, 1989-1993

Source: New York Agricultural Statistics Service, FRUIT series, Seasonal releases for July 1990, 1991, 1992, 1993, and 1994 and the annual Fruit Farm Business Summaries.

SUMMARY AND ANALYSIS OF THE FARM BUSINESS

Business Characteristics

Finding the right management strategies is an important part of operating a successful farm business. Various combinations of farm resources, enterprises, business arrangements, and management techniques are used by the fruit farmers in Western New York. The following table shows important farm business characteristics and the number of farmers reporting these characteristics.

 Table 2.
 Business Characteristics, 20 Western New York Fruit Farms, 1993

Type of Busin	ess Number	Business Record System	Number
Proprietors Partnerships Corporations	4 7 9	Account Book Agrifax (mail-in) On-Farm Computer Other	5 0 14 1
	Business Composition	Number	
	Fruit production only Fruit with storage Fruit & other enterprises Fruit with storage & other ente	8 3 3 erprises 6	

Farm Financial Status

The first step in evaluating the financial status of the farm business is to construct a balance sheet which identifies all the assets and liabilities of the business. The second step is to evaluate the relationships between assets, liabilities, and net worth at the end of the year and the changes that occurred during the year.

Financial lease obligations are included in the balance sheet. The present value of all future payments is listed as a liability since the farmer is committed to make the payments by signing the lease. The present value is also listed as an asset, representing the future value the item has to the business.

Table 3 presents the balance sheet data for the 20 fruit farm cooperators. It lists the average value of assets and liabilities for December 31, 1992 and December 31, 1993 and, therefore, shows the changes that occurred for each category during the year. Asset values that are estimated each year should reflect changes in quantity or quality of the asset and conservative adjustments for price changes. Careful attention to asset values is important for a meaningful calculation of change in net worth, a measure of financial progress.

Table 4 provides a format for the reader to use to develop a balance sheet for an individual farm business.

Decen	nber 31, 1	992 & 1993	3		
Farm Assets	1992	1993	Farm Liabilities & Net Worth	1992	1993
Current	\$	\$	<u>Current</u> = < 1 year	\$	\$
Cash, checking, sav. Accounts receivable Prepaid expenses	115,444 6,188	8,570 102,504 5,532	Accounts payable Operating debt Short-term	21,338 92,503 1,603	28,327 126,879 3,293
Fruit, other crops Production supplies Packing supplies	93,918 6,641 <u>1.066</u>	96,883 6,957 _ <u>1.036</u>	Advanced gov't receipts Accrued interest	0 299	0 <u>437</u>
Total Current	238,045	221,482	Total Current	115,744	158,935
<u>Intermediate</u>			<u>Intermediate</u> = > 1 to < 10	years	
Livestock Livestock leased	0 0	0 0	Structured debt Financial lease-livestock	38,614	41,377
Equipment owned Equipment leased Farm Credit stock Other stock, cert.	198,168 13,273 6,207 <u>55,916</u>	195,070 11,412 7,669 <u>58,802</u>	equipment FLB/PCA stock	13,273 <u>6.207</u>	11,412 <u>7,669</u>
Total Intermediate Long-Term	273,565	272,953	Total Intermediate <u>Long-Term</u> = > 10 years	58,094	60,458
Land/Buildings: Owned Structures leased	417,704	418,307 0	Structured debt Financial lease - structures	11 3,833	118, 644 0
Total Long-Term		418,307	Total Long-Term	113,833	118,644
-			Total Farm: Liabilities	287,670	338,037
Total Farm: Assets	929,314	91 2,7 41	Net Worth Liabilities & Net Worth	641,644 929,314	
Table 3a. Nonfa	rm Assets	s & Liabilitie	es		
NonFarm Assets	1992	1993	NonFarm Liabilities	1992	1993
Cash, checking, sav. Life inscash value Real estate Auto (pers. share) Stocks & bonds Household furn.	6,811 0 300 2,027 1,075	$1,389 \\ 9,333 \\ 0 \\ 225 \\ 2,268 \\ 1,075 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $		3,600	3,035
All other Total NonFarm Assets	<u>2.135</u> 13,148	<u>3.960</u> 18,250	Total Nonfarm: Liab. Net Worth Liabilities & Net Worth	3,600 <u>9,548</u> 13,148	3,035 <u>15,215</u> 18,250
Assets	942,462	930,991	Farm and Nonfarm Liabilities Net Worth	291,270 651,192	341,072 589,919
			Liabilities & Net Worth	942,462	930,991

Table 3.Farm Business Balance Sheet, 20 Western New York Fruit Farms,
December 31, 1992 & 1993

			Farm Liabilities		
Farm Assets	<u>1992</u>	<u> 1993 </u>	& Net Worth	<u>1992</u>	1993
<u>Current</u> Cash, checking, sav. Accounts receivable Prepaid expenses Fruit, other crops		\$ 	<u>Current</u> = < 1 year Accounts payable Operating debt Short-term	\$ 	\$
Production supplies Packing supplies Total Current			Advanced gov't receipts Accrual interest Total Current		
Intermediate Livestock Livestock leased Equipment owned Equipment leased			<u>Intermediate</u> = > 1 to < 10 Structured debt	years	
Farm Credit stock Other stock, cert.			Financial lease-livestock, equipment Farm Credit stock		
Total Intermediate		<u> </u>	Total Intermediate		
Long-Term			<u>Long-Term</u> = > 10 years		
Land/Buildings: Owned Structures leased			Structured debt Financial lease-struc.		
Total Long-Term			Total Long-Term		
Total Farm Assets			Total Farm: Liabilities Net Worth Liabilities & Net Worth		

C

Table 4.Farm Business Balance Sheet, My Farm, December 31, 1992 & 1993

The balance sheet analysis involves an examination of financial and debt ratios. Percent equity is calculated by dividing end of year net worth by end of year assets. The debt to asset ratio is compiled by dividing liabilities by assets. Low debt to asset ratios reflect strength in solvency and the potential capacity to borrow. Debt levels per unit of production include some old standards that are still useful if used with measures of cash flow and repayment ability. The change in farm net worth without appreciation is an excellent indicator of financial progress from operating the business.

Item	20 Farms 1993	My Farm
-	For the Farm Business Only	
Financial Ratios - end of year		
Percent equity	63%	%
Debt to asset ratios: Total debt Long-term Current & intermediate	0.37 0.28 0.44	
Change in Net Worth		
Without appreciation With appreciation	\$(81,782) \$(66,940)	\$ \$
Debt Analysis - end of year		
Percent of total farm debt that is: Long-term Current & intermediate Accounts payable only	35% 65% 8%	% %
<u>Debt Levels</u> - end of year		
Per bearing fruit acre: Total farm debt Long-term Current & intermediate	\$1,426 \$500 \$925	\$ \$

Table 5.Farm Business Balance Sheet Analysis, 20 Western New York Fruit
Farms, December 31, 1993

The farm inventory balance is an accounting of the value of assets used on the balance sheet and the changes that occur from the beginning to end of year. Net investment indicates whether the capital stock is being expanded (positive) or depleted (negative).

C

	uit Farms	My Farm	
<u>Estate</u>	Equipment	<u>Estate</u>	Equipment
\$417,704	\$198,168	\$	\$
\$11,662 ¹	\$16,386		
0	0		
3,799	0		
1,826	2,223		
12,254	22,671		
\$(6,217)	\$(8,508)		
6,820 ²	5,409		
\$418,307	\$195,070		<u> </u>
	Real Estate \$417,704 \$11,662 ¹ 0 3,799 1,826 12,254 \$(6,217) 6,820 ²	EstateEquipment\$417,704\$198,168\$11,6621\$16,386003,79901,8262,22312,25422,671\$(6,217)\$(8,508)6,82025,409	Real Estate Real Equipment Real Estate \$417,704 \$198,168 \$ \$11,662 ¹ \$16,386 \$11,662 ¹ \$16,386 0 0 11,662 ¹ \$16,386 11,662 ¹ \$16,386 11,662 ¹ \$16,386 12,254 2,223 12,254 22,671 \$(6,217) \$(8,508) 6,820 ² 5,409

Table 6.Farm Inventory Balance, 20 Western New York Fruit Farms, 1993

¹Purchase includes \$0 for land and \$11,662 for buildings. ²Real estate appreciation excludes \$0 of appreciation on assets sold during the year.

Income Statement

On the following pages the accrual adjusted income statement begins with an accounting of all farm business expenses.

Cash Paid is the actual amount of money paid out during the year and does not necessarily represent the cost of goods and services actually used.

Change in Inventory: An increase in inventory is subtracted in computing accrual expenses; it represents inputs that were purchased but not actually used during the year. A decrease in inventory is added to expenses because it represents the cost of inputs purchased in a prior year and used this year.

Changes in Prepaid Expenses apply to non-inventory categories. Included are expenses that have been paid in advance of their use, for example, next year's rent paid this year. An increase in a prepaid expense is an amount paid this year that is an expense for a future year and, thus, is subtracted from expenses; a decrease in a prepaid expense indicates an amount paid in a prior year that is an expense for this year and added to cash expenses.

Change in Accounts Payable: An increase in payables is an expense chargeable to this year but not paid by the end of the year. A decrease in payables is an expense for a previous year that was paid this year.

Accrual Expenses are the costs of inputs actually used for this year's production.

The worksheet on page 9 is provided to enable any fruit farmer to compare his or her expenses with the group averages in the corresponding table.

		Change in		
	Cash	inventory	Change in	
	amount	or prepaid	accounts	Accrual
Expenses	paid +	expenses	+ payable =	expenses
Hired Labor				
Wages: regular	\$ 42,803	\$ 0	\$ 0	\$ 42,803
picking	61,909	Ū	(17)	61,891
other part-time,		_		
seasonal	30,043	0	0	30,043
Other labor costs	36,769	(460)	472	36,780
Picker travel	1,013	0	0	1,013
abor camp expenses	3,431	0	(3)	3,428
Sauipment				
Machine hire, rent, lease	12,830	323	1,054	14,206
Repairs & parts	22,793	(25)	281	23,049
Auto expense - farm share	526	(20)	0	23,049 526
Fuel, oil & grease	13,393	(121)	366	13,638
uci, vii u girdət	10,030	(121)	000	10,000
Livestock	0	^	0	^
All livestock expenses	0	0	0	0
Crops				
Fertilizer & lime	10,630	(250)	1,603	11,982
Replacement trees & plants	1,027	0	0	1,027
Spray	47,599	311	12,117	60,028
Supplies, other prod. expens		(231)	544	9,752
Processing & packing supplie		30	0	1,539
Storage	11,211	0	403	11,614
Marketing, selling expenses	1,044	50	0	1,094
Real Estate				
Repair - land, bldg., fences	4,961	0	171	5,132
Taxes	8,530	0	1,656	10,186
Rent & lease	10,555	0	556	11,110
Other Expenses				
Insurance:				
fire, liability	7,569	0	285	7,854
crop	219	Ō	0	215
Telephone - farm share	1,180	Ō	9	1,189
Electricity - farm share	8,493	0	(191)	8,302
Fruit purchased for resale	17,464	Ō	(72)	17,391
Interest paid	17,451	0	365	17,816
Miscellaneous	11,661	0	7,735	19,396
TOTAL OPERATING EXP.	\$396,045	\$(374)	\$27,333	\$423,004
Expansion orchard	17,210	(72)	1,885	19,023
Depreciation:	17,210	(72)	1,000	10,020
equipment				22,671
buildings				6,262
bearing trees & vine	S			5,992
TOTAL ACCRUAL EXPENSE				\$476,953

 Table 7.
 Income Statement - Farm Expenses, 20 Western New York Fruit Farms, 1993

Table 8. Income Statement.		Change in		
	Cash	inventory	Change in	
	amount	or prepaid	accounts	Accrual
Expenses	paid +	expenses	+ payable =	expenses
Hired Labor				
Wages: regular	\$	\$	\$	\$
picking	•	·	·	•
other part-time,				
seasonal				
Other labor costs				
Picker travel				
Labor camp expenses				
Equipment				
Machine hire, rent, lease				
Repairs & parts				
Auto expense - farm share				
Fuel, oil & grease				
i dei, on a grease				
Livestock				
All livestock expenses				
mi investock expenses			<u> </u>	
Crops				
Fertilizer & lime				
Replacement trees & plants				
Spray	<u> </u>			
Supplies, other prod. expense				
Processing & packing supplies	·			
Storage				
Marketing, selling expenses				
Deal Detate				
Real Estate				
Repair - land, bldg., fences		<u> </u>		
Taxes				
Rent & lease				
Other Expenses				
Insurance:				
fire, liability				
crop				<u></u>
Telephone - farm share			. <u></u>	
Electricity - farm share				
Fruit purchased for resale				
Interest paid				
Miscellaneous				
TOTAL OPERATING EXP.	\$	\$	\$	\$
Expansion orchard	·	Ŧ	T	*
Depreciation:				
equipment				_
buildings				
bearing trees & vines				
TOTAL ACCRUAL EXPENSES				\$
TO THE RECITORE ENTEROES				Ψ

 Table 8.
 Income Statement. Farm Expenses. My Farm. 1993

			_	Change in		<u></u>
	Cash	Change in		accounts		Accrual
Receipts	receipts +	inventory ¹	+	receivable	=	receipts
Apples: fresh	\$186,368	\$(3,350)		\$5,518		\$188,537
processing	175,714	5,925		(15,381)		166,258
Cherries: sweet	8,162	•		(50)		8,112
tart	8,034			(768)		7.266
Grapes	796			(77)		719
Peaches	3,445			(27)		3,419
Pears	7,305			(911)		6,394
Plums & prunes	3,777			(1, 113)		2,664
All other fruit	3,361	155		0		3,516
Other crops, livestock & prod.	476	235		0		711
Custom work, storage, rent	36,674			(2,020)		34,655
Other - including government						
receipts, refunds	10,298	0 ²		2,809		13,107
- Non-farm non-cash capital		0 ³				0
TOTAL OPERATING RECEIPTS	<u> </u>	\$2,965		<u>\$(12,019)</u>		\$4 <u>35</u> ,358

Table 9.	Income Statement,	Farm Receipts,	20 Western No	ew York Fruit	Farms, 1993

¹Change in crop and livestock products inventory.

²Change in advanced government receipts.

³Gifts and inheritances of livestock and crops to the farm business.

Cash Receipts include the amount received during the year from the sale of farm products and services, and government programs.

Changes in Inventory are calculated by subtracting beginning of year values from end of year values excluding appreciation. Changes in crop and livestock inventories are calculated. Changes in advanced government receipts are calculated by subtracting the end of year balance from the beginning year balance.

Changes in Accounts Receivable are calculated by subtracting beginning year balances from end year balances.

Accrual Receipts represent the value of all farm commodities and services generated by the farm business during the year.

Table 10. Income Statement, Farm Receipts, My Farm, 1993

Receipts	Cash receipts +	Change in inventory	Change in accounts + receivable	Accrual = receipts
Apples: fresh processing	\$	\$	\$	\$
Cherries: sweet tart				
Grapes Peaches			_	
Pears Plums & prunes				
All other fruit Other crops, livestock & prod.				
Custom work, storage, rent Other - including government				·
receipts, refunds - Non-farm non-cash capital		-)		(-)
TOTAL OPER. RECEIPTS	\$	\$	\$	\$

Profitability Analysis

Farm owner-operators contribute labor, management, and capital to their businesses and the best combination of these resources maximizes profits. Farm profitability can be measured as the return to all family resources or as the return to one or more individual resources such as labor and management.

Net Farm Income is the total combined return to the farm operators and other unpaid family members for their labor, management, and equity capital. It is the farm family's annual net return from working, managing, financing, and owning the farm business. This is not a measure of cash available from the year's business operation. Cash flow is measured later in this report.

Net farm income is computed both with and without appreciation. Appreciation represents the change in values caused by annual changes in prices of livestock, equipment, real estate inventory, and stocks and certificates (other than Farm credit). Appreciation is a major factor contributing to changes in farm net worth and must be included for a complete profitability analysis.

Item	20 Farms 1993	My Farm
Total accrual receipts	\$435,358	\$
+ Appreciation:		
Livestock	(235)	
Equipment	5,409	
Real estate	6,820	
Other - Stocks & certificates	+2.848	+
= Total accrual receipts with appreciation	\$450,200	\$
- Total accrual expenses	<u>-476.953</u>	
= Net farm income with appreciation	\$(26,753)	\$
Net farm income without appreciation	\$(41,595)	\$

Table 11.Net Farm Income, 20 Western New York Fruit Farms, 1993

Return to Operators' Labor, Management, and Equity Capital measures the total business profits for the farm operator(s). It is calculated by deducting a charge for unpaid family labor from net farm income. Operators' labor is not included in unpaid family labor. Return to operators' labor, management, and equity capital has been calculated both with and without appreciation. Appreciation is considered an important part of the return to ownership of farm assets.

Item	20 Farms 1993	My Farm
With appreciation:		
Net farm income	\$(26,753)	\$
- Family unpaid labor @ \$1,400 per month	189	
= Return to operators' labor, management, & equity	\$(26,942)	\$
Without appreciation: Net farm income - Family unpaid labor @ \$1,400 per month	\$(41,595) <u>-189</u>	\$
= Return to operators' labor, management, & equity	\$(41,784)	\$

Table 12.Return to Operators' Labor, Management, and Equity Capital
20 Western New York Fruit Farms, 1993

Labor and Management Income is the return which farm operators receive for their labor and management used in operating the farm business. Appreciation is not included as part of the return to labor and management because it results from ownership of assets rather than management of the farm business. Labor and management income is calculated by deducting the opportunity cost of using equity capital, at a real interest rate of five percent, from the return to operators' labor, management, and equity capital excluding appreciation. The interest charge of five percent reflects the long-term average rate of return above inflation that a farmer might expect to earn in an investment of comparable risk.

Table 13. Labor & Management Income, 20 Western New York Fruit Farms, 1993

Item	20 Farms 1993	My Farm
Without appreciation: Return to operators' labor, management, & equity - Real interest @ 5% on average equity capital	\$(41,784) <u>-30,409</u>	\$
= Labor & management income per farm	\$(72,193)	\$
Labor & management income per operator	\$(39,067)	\$

Return on Equity Capital measures the net return remaining for the farmer's equity or owned capital after a charge has been made for the owner-operators' labor and management. The earnings or amount of net farm income allocated to labor and management is the opportunity cost of operators' labor and management estimated by the cooperators. Return on equity capital is calculated with and without appreciation. The rate of return on equity capital is determined by dividing the amount returned by the average farm net worth or equity capital.

Item	20 Farms 1993	My Farm
Average equity capital	\$60 8,1 7 4	\$
Average total capital	\$921,028	\$
Returns with appreciation:		
Return to operators' labor, management		
& equity capital	\$(26,942)	\$
- Value of operators' labor & management	<u>-57.253</u>	
= Return on average equity capital	\$(84,195)	- \$
+ Interest paid	+17.816	+
= Return on average total capital	\$(66,379)	+ \$
Rates of return (with appreciation) on:		
Average equity capital	-13.8%	%
Average total capital	-7.2%	%
Returns without appreciation:		
Return on average equity capital		
with appreciation	\$(84,195)	\$
- Total appreciation	<u>-14.842</u>	
= Return on average equity capital	\$(99,037)	\$
+ Interest paid	+17.816	+
= Return on average total capital	\$(81,220)	\$
Rates of return (without appreciation) on:		
Average equity capital	-16.3%	%
Average total capital	-8.8%	%

Table 14.Return on Equity Capital and Return on Total Capital,
20 Western New York Fruit Farms, 1993

Cash Flow Statement

Completing an annual cash flow statement is an important step in understanding the sources and uses of funds for the business. Understanding last year's cash flow is the first step toward planning and managing cash flow for the current and future years.

The **Annual Cash Flow Statement** is structured to compare all the cash inflows with all the cash outflows for the year. A complete list of cash inflows and cash outflows is included in Table 15. By definition, total cash inflows must equal total cash outflows when beginning and end balances are included. Any imbalance is, therefore, the error from incorrect accounting of cash inflows and cash outflows.

Item	20 Farms 1993	My Farm
Cash Inflows		
Beginning farm cash, checking, & savings	\$ 14,788	¢
Cash farm receipts	۶ 14,788 447,548	\$
Sale of assets:	447,540	
Equipment	2,223	
Real estate	1,679	
Other stocks & certificates	711	<u> </u>
Money borrowed:	/11	
•	94 976	
Increase in operating debt	34,376	
Short-term	2,538	
Intermediate	17,196	
Long-term	12,673	
Refinanced debt	0	
Non-farm:		
Income	901	
Capital used in business	2,567	
Money borrowed	0	
Total Cash Inflows	\$537,199	\$
Cash Outflows		
Cash farm expenses (excluding interest paid)	\$378,594	\$
Capital purchases:	4070,001	+
Expansion orchard	17,210	
Equipment	16,386	
Real estate	11,662	
Other stocks & certificates	749	
Debt payments:	749	
Principal payments for -	0	
Decrease in operating debt	0	
Short-term	848	
Intermediate	14,434	
Long-term	7,862	
Refinanced debt	0	·
Interest paid	17,451	
Personal withdrawals & family expenditures i	ncluding	
non-farm debt payments & corporate operator		
labor costs	62,955	
	-,	
Ending farm cash, checking & savings	<u> 8.570</u>	
	<u> </u>	
Total Cash Outflows	\$536,720	\$
Imbalance (error)	\$479	\$

 Table 15.
 Annual Cash Flow Statement, 20 Western New York Fruit Farms, 1993

Repayment Analysis

The second step in cash flow analysis is to compare the debt payments planned for this year with the amount actually paid. The measures listed below provide a number of different perspectives on the repayment performance of the business.

 Table 16.
 Farm Debt Payments Planned, 20 Western New York Fruit Farms, 1993

	20	Fruit Farr	ns	My Farm		
	Planned	Actual	Planned	Planned	Actual 1	Planned
		Payments	for	for	payments	for
Debt Payments	<u>19931</u>	in 1993 ²	1994	1993	1993	1994
Accts. payable (net reduction) Operating (net reduction) Short-term (principal & int.) Intermediate (principal & int.) Long-term (principal & int.)	\$ 800 13,422 750 7,689 15.809	0 848 16,687	\$ 1,927 9,773 1,909 5,313 16,722	\$ 	\$ 	\$
Total debt payments	\$38,470	\$31,817	\$35,643	\$	\$	\$
Payments as a percent of: Total accrual receipts Total accrual fruit receipts	9% 10%			%	%	
Payments per acre of: bearing fruit all fruit Payments/bushel of apples sol	\$162 \$142 Id \$0.43	\$118		\$ \$ \$	\$ \$ \$	

¹If on the Fruit Farm Business Summary the previous year. ²Actual payments excluding refinanced debt.

The **Cash Flow Coverage Ratio** measures the ability of the farm business to meet its planned debt payment schedule. The ratio shows the percentage of planned payments that could have been made with this year's available cash flow. However, the critical question to many farmers and lenders is whether planned payments can be made in 1994. The worksheet provided in Table 18 can be used to estimate repayment ability which can then be compared to planned 1994 debt payments shown in Table 16.

Table 17. Cash Flow Coverage Ratio, 20 Western New York Fruit Farms, 1993

Item	20 Farms 1993	My Farm
Cash farm receipts - Cash farm expenses + Interest paid - Net personal withdrawals from farm ¹	\$447,548 396,045 17,451 62,055	\$
= Amount available for debt service (1)	\$6,900	\$
Debt payments planned (2)	\$38,470	\$
Cash Flow Coverage Ratio (1 ÷ 2)	0.18	

¹Personal withdrawals and family expenditures less non-farm income and non-farm money borrowed.

[My Fa	rm. 1993		
Item		Average 20 Farms	Total	Per bear- ing acre	Expected change	1994 projection
Average t	bearing acres of fruit	237				
	Operating Receipts (per	bearing acr	e)_	~	^	
Apples:	Fresh Processing	\$795 701	\$	\$	\$	\$
All other	fruit	135			·	
	ops, livestock & products work, storage & rent	3 146				
Other - in	ncluding government					
receipts	, refunds	\$1,836	\$	\$	\$	\$
Total	Operating Receipts	\$1,836	¢	<u>م</u>	¢	\$
Accrual (Labor:	Operating Expenses (per	r bearing ac	re)			
Lauor	Wages regular	\$ 181				
	picking	261				
	other part-time, seaso Other labor costs	onal 127 155				
	Picker travel, labor can					
Equip:	Machine hire, rent, leas	sē 60				
	Repairs, parts & auto e Fuel, oil & grease	xp. 99 58				
Livestock	: All livestock expense	0			<u>-</u>	
Crops:	Fertilizer & lime	51				
-	Replacement trees & pl	ants 4				
	Spray Supplies, other prod. e.	253 xp. 41				
	Storage	49 Ap.				
	Packing supplies, mark	teting,				
Doal Fat	selling exp. : Repair - land, bldg., fer	11 nces 22				
near 1251,	Taxes	43				
	Rent & lease	47				
Other:	Insurance - fire, liab., o					
	Utilities - phone, elec. Resale items - fruit, etc	40 2. 73				
	Miscellaneous	. 73				
	erating Expenses					
Exclud	ing Interest	\$1,709	\$	\$	\$	\$
	ent Analysis (Total)					
	al operating income	***	•			•
	ding interest in livestock & crop inv.	\$30,710 2,965	\$			\$
	in accounts receivable	(12,019)				
+ Change	e in crop & supply inv.	(374)				
	in accounts payable	00.000				
	ding interest ating Cash Flow	26,968 \$65,818	\$			\$
- Net per	sonal withdrawals	62,055	Ψ			₩
Available	for debt payments, invest		\$			\$
- Farm d	ebt payments: principal					
& inter	est for farm investment	31,817 \$(28,053)	\$			<u></u>
	urchases	\$46,007	\$ \$			\$
	al capital needed	\$74,060	\$			\$
	-					

 Table 18.
 Annual Cash Flow Worksheet, 1993 and 1994 Projection

Capital Efficiency Analysis

Capital efficiency factors measure how intensively capital is being used in the farm business. As capital needs grow, capital management becomes more important.

Capital turnover is a measure of capital efficiency as it shows the number of years of farm receipts required to equal or "turnover" the capital investment. It is computed by dividing the average farm asset value by the year's total farm accrual receipts and appreciation.

	Average Capital Investment						
	Per worker	Per Bear		Per all			
Item	<u>equivalent</u>	<u>Owned</u>	<u>Operated</u>	<u>_fruit acres</u>			
Assets							
Total farm capital	\$86,712	\$5,647	\$3,884	\$3,406			
Real estate	39,354	2,563	n/a	1,546			
All equipment	9,866	n/a	442	387			
1 1							
Capital turnover, years 2.05							
My Farm:							
Total farm capital Real estate All equipment	\$ 	\$ 	\$	\$ 			
Capital turnover, years							

 Table 19.
 Capital Efficiency Analysis, 20 Western New York Fruit Farms, 1993

Equipment Analysis

Equipment costs comprise nearly 20 percent of the cost of fruit production. Total equipment expenses include the major fixed costs (interest and depreciation) as well as the accrual operating costs.

Table 20.Accrual Equipment Expenses, 20 Western New York Fruit Farms, 1993

		. ,				
	Avera	e 20 Fruit	Farms		My Farm	
	Total		nt cost per	Total	Equipment	cost per
	equip.	fruit acre	operated:	equip.	fruit acre of	
Item	cost	Bearing	<u>All fruit</u>	cost	Bearing	All fruit
Annual Accrual Cost						
Machine hire, equip.						
rent, lease	\$14,206	\$ 60	\$ 53	\$	\$	\$
Repair & parts	23,049	97	85			
Auto exp farm share	526	2	2			
Fuel, oil & grease	13,638	58	50			
Interest - avg. cap. @5%	9,831	41	36			
Depreciation	22.671	<u> 96</u>	<u> 84</u>			
Total Equipment Cost	\$83,921	\$354	\$310	\$	\$	\$

Labor Analysis

The efficient use of labor is closely related to farm profitability. Measures of labor efficiency or productivity are key indicators of management's success.

Farms, 1993				
Labor Force	Full-time months	0 -,	Years of	Value of
	monuis	years	Education	labor/mgmt.
Average:				
Operator -				
number 1	10.6	45	15	\$28,432
number 2	6.4	41	13	15,892
number 3	4.7	40	14	11,318
number 4	0.6	51	14	1.611
Family unpaid	0.1		Τc	tal \$57,253
Family paid	1.0		Avg./o	per. \$30,948
Hired -				
regular	29.6			
picking	45.7			
other part-time, seasonal	28.8			
Total	127.5	mo./12 = 10).62 worker o 85 oper /ma	equivalent nager equiv.
			00 0001.71110	nucci cyuiv,
My Farm:				_
Total		mo./12 =	worker eq	uivalent
Operators		mo./12 =	oper./mai	nager equiv.
	A	verage	Mv	Farm
Labor Decision	Tatal	Der Worlter	Total	Den medleen
Labor Efficiency	<u>Total</u>	Per Worker	Total	Per worker
Bearing fruit, acres	237.1	22.3		
Total fruit, acres	270.5	25.5		
Apples sold, bushels	94,019	8,852		
Accrual receipts	\$435,358	\$40,988	\$ \$	\$
Accrual fruit receipts	\$386,885	\$36,424	\$	\$
Labor Cost or Value		Annual Acc	mual Cost	

Table 21.	Labor Force Inventory and Analysis, 20 Western New York Fruit
	Farms, 1993

Labor Cost or Value	Annual Accrual Cost						
	Avera	ge 20 Fa	rms		My Farm		
Type	Total	Per worker equiv.	Per bearing acre	Total	Per worker equiv.	Per bearing acre	
Value of operator(s) labor @	+	+	+				
\$1,400/mo.	\$ 31,045		\$ 131	\$		\$	
Family unpaid @ \$1,400/mo.	189	18	1				
Family paid (excl. operator) Hired -	1,534	144	6	<u> </u>	. <u> </u>		
regular (excluding operator)	56,778	5.346	239				
picking	81,357	7.661	343				
other part-time, seasonal	36.667		155				
All labor (incl. non-cash)	\$207,570	\$19,545	\$ 875	\$	\$	\$	
All equipment cost	83.921	7.902	354	<u>. </u>		·	
Total labor & equip. cost	\$ 291,491	<u>\$27,447</u>	<u>\$1,229</u>	\$	\$	\$	

Cropping Program Analysis

The cropping program is the central part of a fruit farm business. A complete evaluation of available land resources, how they are being used, how well crops are producing, and what it costs to produce them, is required to evaluate alternative cropping choices. In the table below, average crop acres and yields are presented for the number of farms reporting each crop.

Table 22.Land Resources and Crop Production, 20 Western New York Fruit
Farms, 1993

Item	Average 20 Farms Owned Rented Total		<u>My Farm</u> Owned Rented Total		
Land Class (end of year) Bearing fruit, acres Non-bearing fruit, acres Other crops, open, acres Non-tillable pasture, acres Other non-tillable, acres	27	.6 5. .9 5. .8 0. .2 6.	6 24.5 0 3.8 0 33.2		
Total land operated	240		3 331.9		
Crop Production	For far No. of farms	ms havir Average acres		Total acres	Yield per acre
Bearing Fruit: Apples - fresh processing all apples Cherries sweet tart Grapes Peaches Peaches Plums, prunes Other fruit Total bearing fruit Non-Bearing Fruit:	20 20 20 7 9 2 9 11 7 3 20		369 bu. 543 bu. 456 bu. 1,681 lb. 4,340 lb. 3.2 tn. 153 bu. 221 bu. 225 bu.		bu. bu. lb. lb. lb. bu. bu. bu.
Apples fresh processing Cherries sweet tart Other non-bearing Total non-bearing fruit acres	18 1 3 2 6 20	30.3 59.0 7.5 11.7 2.7 33.3			
Other Crops, Open: Other	16	30.6			

Cost Control Factors

The control of costs is an important factor in the success of modern commercial fruit farm businesses. But before they can be controlled, they must be known. A major reason for farm business analysis is to identify the most significant cost items so cost control decisions can be encouraged as warranted. However, the optimum level of input items used to obtain the greatest net return is difficult to determine.

Farm managers have substituted power and equipment for labor to a large degree. With labor and equipment costs in excess of 50 percent of total production costs on fruit farms, it is important to know and control these and other costs on a production unit basis.

Farms, 1993				
	Cost Per Fruit Acre Operated			
Item	Bearing acres	All fruit acres		
All labor - including operators' labor	\$875	\$768		
Picking labor	343	301		
Other hired labor	401	351		
All equipment cost	354	310		
Spray	253	222		

Table 23.Cost Control Factors, 20 Western New York Fruit
Farms, 1993

PROGRESS OF THE FARM BUSINESS

Comparing your business with average data from other fruit farms can be a helpful part of a business checkup. While a wide variation in business size and composition exists in this group of fruit farms, many of the factors will provide a meaningful indication of how you compare with other fruit farms. It is, perhaps, even more important for you to determine the progress your business has made over the past two or three years and to set goals for the future.

The tables on the following pages provide the opportunity for you to compare your business factors with averages for the participating farms for the past three years. It also encourages you to set some goals toward which to strive as you measure the progress of your farm business over the years.

Selected Factors 1991 1992 1993 Number of farms 24 22 20 Size of Business All cropland including fruit, acres 257 290 295 All fruit including fruit, acres 203 259 270 Bearing fruit, acres 209 233 237 Bearing fruit, acres 209 233 237 Bearing fruit, acres 171 189 195 Fresh - percent of all apple acres 48% 47% 50% Apples soid, bushels 98,214 121.305 89.046 Apples soid, bushels 99.713 114,655 94,019 Worker equivalent 9.42 11.21 10.62 Total accrual operating acre 575 640 456 Fresh - percent of apples harvested 37% 37% 41% Non-bearing to bearing acre 237 279 221 Non-bearing to bearing acre 25 23 25 23 25 Accrual receipts per worker 25	Farms, 1991-1993			
Size of Business 257 290 295 All cropland including fruit, acres 233 259 270 Bearing ruit, acres 209 233 237 Bearing apples, acres 171 189 195 Fresh - percent of all apple acres 48% 47% 50% Apples soid, bushels 98,244 121,305 89,046 Apples odd, bushels 99,713 114,655 94,019 Worker equivalent 9.42 11,21 10.62 Total accrual operating receipts \$557,217 449,521 435,358 Rates of Production All apples, bushels per bearing acre 575 640 456 All apples, bushels per bearing acre 237 279 221 Non-bearing to bearing acre 25 23 25 Accrual receipts per worker 25 23 25 Accrual receipts per worker 25 23 25 All equipment \$351 \$368 \$354 Spray \$272 \$287 \$295 Hired labor \$376 \$376 \$33.406 <th>Selected Factors</th> <th><u>1991</u></th> <th>1992</th> <th>1993</th>	Selected Factors	<u>1991</u>	1992	1993
All cropland including fruit, acres 257 290 295 All fruit including non-bearing, acres 233 259 270 Bearing apples, acres 171 189 195 Fresh - percent of all apple acres 48% 47% 50% Apples sold, bushels 98,244 121,305 89,046 Apples old, bushels 99,713 114,655 94,019 Worker equivalent 9.42 11,21 10.62 Total accrual operating receipts \$557,217 449,521 435,358 Rates of Production All apples, bushels per bearing acre 575 640 456 Fresh - percent of apples harvested 37% 37% 41% Cherries - tart, pounds per bearing acre 8,867 7,330 4,340 Pears, bushels per bearing acre 23 25 23 25 All fruit, acres per worker 25 23 25 24 11/% 14% Labor Efficiency States of probacting acre \$59,125 \$44,580 \$40,988 Cost Control - Accrual States of probacting acre \$35,596 \$3,768	Number of farms	24	22	20
All cropland including fruit, acres 257 290 295 All fruit including non-bearing, acres 233 259 270 Bearing apples, acres 171 189 195 Fresh - percent of all apple acres 48% 47% 50% Apples sold, bushels 98,244 121,305 89,046 Apples old, bushels 99,713 114,655 94,019 Worker equivalent 9.42 11,21 10.62 Total accrual operating receipts \$557,217 449,521 435,358 Rates of Production All apples, bushels per bearing acre 575 640 456 Fresh - percent of apples harvested 37% 37% 41% Cherries - tart, pounds per bearing acre 8,867 7,330 4,340 Pears, bushels per bearing acre 23 25 23 25 All fruit, acres per worker 25 23 25 24 11/% 14% Labor Efficiency States of probacting acre \$59,125 \$44,580 \$40,988 Cost Control - Accrual States of probacting acre \$35,596 \$3,768	Size of Rusiness			
All fruit including nor-bearing, acres 233 259 270 Bearing fruit, acres 209 233 237 Bearing apples, acres 171 189 195 Fresh - percent of all apple acres 48% 47% 50% Apples produced, bushels 98,244 121,305 89,046 Apples produced, bushels 98,713 114,655 94,019 Worker equivalent 9.42 11.21 10.62 Total accrual operating receipts \$557,217 449,521 435,358 Rates of Production All apples, bushels per bearing acre $8,867$ $7,330$ $4,340$ Pears, bushels per bearing acre 237 279 221 Non-bearing to bearing acre 22 21 22 Non-bearing to bearing acre 22 21 22 Non-bearing to bearing acre 23 25 23 25 All fruit, acres per worker 22 21 22 21 22 All fruit, acres per worker 25 23 25 Accrual receipts per worker 456 All fruit, acres per worker		257	290	295
Bearing fruit, acres 209 233 237 Bearing apples, acres 171 189 195 Fresh - percent of all apple acres 48% 47% 50% Apples sold, bushels 98,244 121,305 89,046 Apples sold, bushels 99,713 114,655 94,019 Worker equivalent 9.42 11.21 10.62 Total accrual operating receipts \$557,217 449,521 435,358 Rates of Production All apples, bushels per bearing acre 575 640 456 Fresh - percent of apples harvested 37% 37% 41% Cherries - tart, pounds per bearing acre 237 279 221 Non-bearing to bearing acre 25 23 25 Accrual receipts per worker 25 23 25 Accrual receipts per worker \$59,125 \$44,580 \$40,988 Cost Control - Accrual Cost per bearing acre \$42% 45% \$25 All abor \$351 \$368 \$354 \$57 All elabor as percent of operating expenses 42% 42% 42%				
Bearing apples, acres 171 189 195 Presh - percent of all apple acres 48% 47% 50% Apples produced, bushels 98,244 121,305 89,046 Apples produced, bushels 99,713 114,655 94,019 Worker equivalent 9.42 11.21 10.62 Total accrual operating receipts \$557,217 449,521 435,358 Rates of Production All apples, bushels per bearing acre 5.75 640 456 Fresh - percent of apples harvested 3.7% 3.74 4.1% Cherries - tart, pounds per bearing acre 2.8.67 7.330 4.340 Pears, bushels per bearing acre 2.37 279 221 Non-bearing to bearing acre ratio 11% 11% 14% Labor Efficiency Bearing fruit, acres per worker 22 21 22 Accrual receipts per worker \$25 23 25 Accrual receipts per worker \$25 23 25 Accrual receipts per worker \$22 21 22 All fauit acres per worker \$272 \$287 \$287<				
Fresh "percent of all apple acres 48% 47% 50% Apples produced, bushels $98,244$ $121,305$ $89,046$ Apples sold, bushels $99,713$ $114,655$ $94,019$ Worker equivalent 9.42 11.21 10.62 Total accrual operating receipts $\$557,217$ $449,521$ $435,358$ Rates of Production All $apples$, bushels per bearing acre 575 640 456 Fresh - percent of apples harvested 37% 37% 41% 41% Cherries - tart, pounds per bearing acre 237 279 221 Non-bearing to bearing acre ratio 11% 11% 14% Labor Efficiency Bearing fruit, acres per worker 22 21 22 Accrual receipts per worker 25 23 25 Accrual receipts per worker $\$59,125$ $\$44,580$ $\$40,988$ Cost per bearing acre: All All $\$575$ 42% 42% All abor acrual meent of stating expenses 42% 45% 42% 42% 45%				
Apples produced, bushels 98.244 121.305 89.046 Apples sold, bushels 99.713 114.655 94.019 Worker equivalent 9.42 11.21 10.62 Total accrual operating receipts \$557.217 449.521 435.358 Rates of Production All apples, bushels per bearing acre 575 640 456 Presh - percent of apples harvested 37% 37% 41% Cherries - tart, pounds per bearing acre 237 279 221 Non-bearing to bearing acre 232 21 22 All fuit, acres per worker 25 23 25 Accrual receipts per worker 25 23 25 Accrual receipts per worker 25 23 25 All fuit, acres per worker \$59,125 \$44,580 \$40,988 Cost Control - Accrual Cost \$376 \$368 \$375 All a				
Apples sold, bushels99,713114,65594,019Worker equivalent9.4211.2110.62Total accrual operating receipts\$557,217449,521435,358Rates of Production41%All apples, bushels per bearing acre575640456Presh - percent of apples harvested 37% 37% 41%Cherries - tart, pounds per bearing acre 237 279221Non-bearing to bearing acre ratio11%11%14%Labor Efficiency222122Bearing fruit, acres per worker252325Accrual receipts per worker\$59,125\$44,580\$40,988Cost Control - Accrual\$351\$368\$354Cost per bearing acre:***\$253\$253All equipment\$351\$368\$354\$544Spray*\$272\$287\$223Hired labor as percent of operating expenses42%45%42%Capital Efficiency - Average for the Year*\$3,568\$3,768\$3,406Capital turnover, years1.41.92.0*Profitability*****Net farm income:*****With appreciation\$148,708\$12,618\$(41,595)*With appreciation\$168,666\$18,134\$(26,753)*Labor & management income per operator\$70,454\$(12,400)<				
Worker equivalent 9.42 11.21 10.62 Total accrual operating receipts \$557,217 449,521 435,358 Rates of Production All apples, bushels per bearing acre 575 640 456 Presh - percent of apples harvested 37% 37% 41% Cherries - tart, pounds per bearing acre 237 279 221 Non-bearing to bearing acre 237 279 221 Non-bearing to bearing acre 225 23 25 Accrual receipts per worker 22 21 22 All fruit, acres per worker 25 23 25 Accrual receipts per worker 25 23 25 Accrual receipts per worker 3551 \$368 \$354 All abor \$3251 \$368 \$354 Spray \$272 \$287 \$253 Hired labor as percent of operating expenses 42% 45% 42% Capital Efficiency - Average for the Year 41.80 \$3.884 \$3.68 Total farm capital per bearing acre \$4.009 \$4.180 \$3.884 Total farm capita				
Total accrual operating receipts \$557,217 $449,521$ $435,358$ Rates of Production All apples, bushels per bearing acre 575 640 456 Fresh - percent of apples harvested 37% 37% 410% Cherries - tart, pounds per bearing acre 2.37 279 221 Non-bearing to bearing acre 2.37 279 221 Non-bearing fruit, acres per worker 22 21 22 All fruit, acres per worker 25 23 25 Accrual receipts per worker $$59,125$ \$44,580 \$40,988 Cost Control - Accrual Cost per bearing acre: All all $abor$ All labor \$888 \$991 \$875 All equipment \$855 \$68 \$354 Spray \$272 \$287 \$253 Hired labor as percent of operating expenses 42% 45% 42% Capital Efficiency - Average for the Year $43,368$ $43,368$ $$3,768$ $$3,406$ Capital furn capital per fruit acre \$4,009 \$4,180 \$3,884 506 <t< td=""><td></td><td></td><td></td><td>• -</td></t<>				• -
All apples, bushels per bearing acre 575 640 456 Fresh - percent of apples harvested 37% 37% 41% Cherries - tart, pounds per bearing acre 8,867 7,330 4,340 Pears, bushels per bearing acre 237 279 221 Non-bearing to bearing acre ratio 11% 11% 14% Labor Efficiency 22 21 22 Bearing fruit, acres per worker 22 21 22 All fruit, acres per worker 25 23 25 Accrual receipts per worker \$59,125 \$44,580 \$40,988 Cost Control - Accrual Cost per bearing acre: 31 \$368 \$354 All labor \$888 \$991 \$875 \$41 \$40,988 Cost Control - Accrual Cost per bearing acre: \$42% 45% \$228 \$253 All labor \$888 \$991 \$875 \$41 \$42% \$26 Cost Control - Accrual Cost control - Accrual \$351 \$368 \$354 Spray \$272 \$287 \$253 \$257				
All apples, bushels per bearing acre575640456Fresh - percent of apples harvested37%37%41%Cherries - tart, pounds per bearing acre8,8677,3304,340Pears, bushels per bearing acre237279221Non-bearing to bearing acre ratio11%11%14%Labor Efficiency222122Bearing fruit, acres per worker222122All fruit, acres per worker252325Accrual receipts per worker\$59,125\$44,580\$40,988Cost Control - AccrualCost per bearing acre:3351\$368\$354All labor\$888\$991\$875All equipment\$351\$368\$354Spray\$272\$287\$253\$253\$253\$240Hired labor as percent of operating expenses42%45%42%\$42%Capital Efficiency - Average for the YearTotal farm capital per bearing acre\$4,009\$4,180\$3,884Total farm capital per fruit acre\$3,596\$3,768\$3,406\$3,666\$43,768\$3,406Capital turnover, years1.41.92.02.0\$148,708\$12,618\$(41,595)With appreciation\$148,708\$12,618\$(41,595)\$(41,595)\$(3,667)\$3,864Total farm capital per fruit acre\$3,596\$3,768\$3,406\$3,864Capital turnover, years1.41.92.0\$1,426Profitability<	Rates of Production			
Fresh - percent of apples harvested 37% 37% 41% Cherries - tart, pounds per bearing acre $8,867$ $7,330$ $4,340$ Pears, bushels per bearing acre 237 279 221 Non-bearing to bearing acre ratio 11% 11% 11% 14% Labor Efficiency Bearing fruit, acres per worker 22 21 222 All fruit, acres per worker 25 23 25 Accrual receipts per worker $$59,125$ \$44,580 \$40,988 Cost Control - Accrual Cost per bearing acre: All All $abor$ $$888$ \$991 \$875 All labor \$888 \$991 \$875 \$253 \$253 Hired labor as percent of operating expenses 42% 45% 42% Capital Efficiency - Average for the Year Total farm capital per fruit acre \$3,596 \$3,768 \$3,406 Capital farm capital per fruit acre \$3,596 \$3,768 \$3,406 \$3,406 Capital turnover, years 1.4 1.9 2.0 Profitability Net farm income: \$168,666 </td <td>All apples, bushels per bearing acre</td> <td>575</td> <td>640</td> <td>456</td>	All apples, bushels per bearing acre	575	640	456
Cherries - tart, pounds per bearing acre $8,867$ $7,330$ $4,340$ Pears, bushels per bearing acre 237 279 221 Non-bearing to bearing acre ratio 11% 11% 11% 14% Labor Efficiency Bearing fruit, acres per worker 22 21 22 All fruit, acres per worker 25 23 25 Accrual receipts per worker $$59,125$ \$44,580 \$40,988 Cost Control - Accrual Cost per bearing acre: All all $abor$ All labor \$351 \$368 \$354 Spray \$272 \$287 \$253 Hired labor as percent of operating expenses 42% 42% 42% Capital Efficiency - Average for the Year Total farm capital per fruit acre \$3,596 \$3,768 \$3,406 Capital turnover, years 1.4 1.9 2.0 Profitability Net farm income: \$148,708 \$12,618 \$(41,595) Without appreciation \$168,666 \$18,134 \$(26,753) Labor & management income per operator \$70,454 \$(1		37%	37%	
Pears, bushels per bearing acre 237 279 221 Non-bearing to bearing acre ratio 11% 11% 14% Labor Efficiency 22 21 22 Bearing fruit, acres per worker 22 21 22 All fruit, acres per worker 25 23 25 Accrual receipts per worker \$59,125 \$44,580 \$40,988 Cost Control - Accrual \$351 \$368 \$354 Cost per bearing acre: \$351 \$368 \$354 All labor \$8351 \$368 \$354 Spray \$272 \$287 \$253 Hired labor as percent of operating expenses 42% 45% 42% Capital Efficiency - Average for the Year Total farm capital per fruit acre \$3,596 \$3,768 \$3,406 Capital turnover, years 1.4 1.9 2.0 Profitability Net farm income: \$168,666 \$18,134 \$(26,753) Labor & management income per operator \$70,454 \$(12,400) \$(39,067) Rate of return to average capital with appreciation: Equity capital 19.4%		8,867	7,330	4,340
Non-bearing to bearing acre ratio 11% 11% 14% Labor Efficiency Bearing fruit, acres per worker 22 21 22 All fruit, acres per worker 25 23 25 Accrual receipts per worker \$59,125 \$44,580 \$40,988 Cost Control - Accrual \$40,988 \$40,988 Cost per bearing acre: 368 \$351 \$368 \$354 All equipment \$351 \$368 \$354 \$573 \$253 Hired labor as percent of operating expenses 42% 45% 42% Capital Efficiency - Average for the Year Total farm capital per bearing acre \$4,009 \$4,180 \$3,884 Total farm capital per fruit acre \$3,596 \$3,768 \$3,406 Capital turnover, years 1.4 1.9 2.0 Profitability Net farm income: \$168,666 \$18,134 \$(26,753) Labor & management income per operator \$70,454 \$(12,400) \$(39,067) Rate of return to average capital with appreciation: 19.4% -5.6% -13.8% Total capital 16.2%				
Bearing fruit, acres per worker 22 21 22 All fruit, acres per worker 25 23 25 Accrual receipts per worker \$59,125 \$44,580 \$40,988 Cost Control - Accrual \$44,580 \$40,988 Cost per bearing acre: All labor \$888 \$991 \$875 All equipment \$351 \$368 \$354 Spray \$2272 \$287 \$253 Hired labor as percent of operating expenses 42% 45% 42% Capital Efficiency - Average for the Year 704al farm capital per bearing acre \$4,009 \$4,180 \$3,884 Total farm capital per fruit acre \$3,596 \$3,768 \$3,406 Capital turnover, years 1.4 1.9 2.0 Profitability Net farm income: \$168,666 \$18,134 \$(26,753) Without appreciation \$148,708 \$12,618 \$(41,595) With appreciation \$168,666 \$18,134 \$(26,753) Labor & management income per operator \$70,454 \$(12,400) \$(39,067) Rate of return to average capital		11%	11%	14%
Bearing fruit, acres per worker 22 21 22 All fruit, acres per worker 25 23 25 Accrual receipts per worker \$59,125 \$44,580 \$40,988 Cost Control - Accrual \$44,580 \$40,988 Cost per bearing acre: All labor \$888 \$991 \$875 All equipment \$351 \$368 \$354 Spray \$2272 \$287 \$253 Hired labor as percent of operating expenses 42% 45% 42% Capital Efficiency - Average for the Year 704al farm capital per bearing acre \$4,009 \$4,180 \$3,884 Total farm capital per fruit acre \$3,596 \$3,768 \$3,406 Capital turnover, years 1.4 1.9 2.0 Profitability Net farm income: \$168,666 \$18,134 \$(26,753) Without appreciation \$148,708 \$12,618 \$(41,595) With appreciation \$168,666 \$18,134 \$(26,753) Labor & management income per operator \$70,454 \$(12,400) \$(39,067) Rate of return to average capital	Labor Efficiency			
All fruit, acres per worker 25 23 25 Accrual receipts per worker \$59,125 \$44,580 \$40,988 Cost Control - Accrual Cost per bearing acre: All labor \$888 \$991 \$875 All labor \$351 \$368 \$354 \$59ray \$2272 \$2287 \$2253 Hired labor as percent of operating expenses 42% 45% 42% Capital Efficiency - Average for the Year Total farm capital per bearing acre \$4,009 \$4,180 \$3,884 Total farm capital per bearing acre \$4,009 \$4,180 \$3,884 Total farm capital per fruit acre \$3,596 \$3,768 \$3,406 Capital turnover, years 1.4 1.9 2.0 Profitability 2.0 Profitability Net farm income: Without appreciation \$148,708 \$12,618 \$(41,595) With appreciation \$148,708 \$12,618 \$(41,595) \$(39,067) Rate of return to average capital with appreciation: Equity capital 19.4% -5.6% -13.8% Total capital 16.2% -2.5% -7.2% Financial Summary - End of Year <t< td=""><td></td><td>22</td><td>21</td><td>22</td></t<>		22	21	22
Accrual receipts per worker $\$59,125$ $\$44,580$ $\$40,988$ Cost Control - Accrual Cost per bearing acre: $\$1$ $\$675$ All equipment $\$351$ $\$368$ $\$354$ Spray $\$272$ $\$287$ $\$2253$ Hired labor as percent of operating expenses 42% 45% 42% Capital Efficiency - Average for the Year Total farm capital per bearing acre $\$4,009$ $\$4,180$ $\$3,884$ Total farm capital per fruit acre $\$3,596$ $\$3,768$ $\$3,406$ Capital turnover, years 1.4 1.9 2.0 Profitability Net farm income: $\$148,708$ $\$12,618$ $\$(41,595)$ Without appreciation $\$148,708$ $\$12,618$ $\$(41,595)$ Without appreciation $\$168,666$ $\$18,134$ $\$(26,753)$ Labor & management income per operator $\$70,454$ $\$(12,400)$ $\$(39,067)$ Rate of return to average capital with appreciation: $=2.5\%$ -7.2% -7.2% Financial Summary - End of Year $=2.5\%$ -7.2% -7.2% Financial Summary - End of Year $$672,684$		25	23	
Cost per bearing acre: All labor \$888 \$991 \$875 All equipment \$351 \$368 \$354 Spray \$272 \$287 \$253 Hired labor as percent of operating expenses 42% 45% 42% Capital Efficiency - Average for the Year ************************************		\$59,125	\$44,580	\$40,988
All labor\$888\$991\$875All equipment\$351\$368\$354Spray\$272\$287\$253Hired labor as percent of operating expenses 42% 45% 42% Capital Efficiency - Average for the YearTotal farm capital per bearing acre\$4,009\$4,180\$3,884Total farm capital per fruit acre\$3,596\$3,768\$3,406Capital turnover, years1.41.92.0ProfitabilityNet farm income:Without appreciation\$148,708\$12,618\$(41,595)With appreciation\$168,666\$18,134\$(26,753)Labor & management income per operator\$70,454\$(12,400)\$(39,067)Rate of return to average capital with appreciation: 19.4% -5.6% -13.8% Total capital19.4\% -5.6% -7.2% Financial Summary - End of Year 72.5% $574,704$ Debt to asset ratio 0.25 0.31 0.37 Debt per bearing acre\$1,059\$1,290\$1,426	Cost Control - Accrual			
All labor\$888\$991\$875All equipment\$351\$368\$354Spray\$272\$287\$253Hired labor as percent of operating expenses 42% 45% 42% Capital Efficiency - Average for the YearTotal farm capital per bearing acre\$4,009\$4,180\$3,884Total farm capital per fruit acre\$3,596\$3,768\$3,406Capital turnover, years1.41.92.0ProfitabilityNet farm income:Without appreciation\$148,708\$12,618\$(41,595)With appreciation\$168,666\$18,134\$(26,753)Labor & management income per operator\$70,454\$(12,400)\$(39,067)Rate of return to average capital with appreciation: 19.4% -5.6% -13.8% Total capital19.4\% -5.6% -7.2% Financial Summary - End of Year 72.5% $574,704$ Debt to asset ratio 0.25 0.31 0.37 Debt per bearing acre\$1,059\$1,290\$1,426	Cost per bearing acre:			
Spray \$272 \$287 \$253 Hired labor as percent of operating expenses 42% 45% 42% Capital Efficiency - Average for the Year Total farm capital per bearing acre \$4,009 \$4,180 \$3,884 Total farm capital per fruit acre \$3,596 \$3,768 \$3,406 Capital turnover, years 1.4 1.9 2.0 Profitability Net farm income: \$148,708 \$12,618 \$(41,595) Without appreciation \$148,708 \$12,618 \$(41,595) With appreciation \$168,666 \$18,134 \$(26,753) Labor & management income per operator \$70,454 \$(12,400) \$(39,067) Rate of return to average capital with appreciation: Equity capital 19.4% -5.6% -13.8% Total capital 16.2% -2.5% -7.2% -7.2% Financial Summary - End of Year \$672,684 \$656,692 \$574,704 Debt to asset ratio 0.25 0.31 0.37 Debt per bearing acre \$1,059 \$1,290 \$1,426	All labor	\$888	\$991	\$875
Hired labor as percent of operating expenses 42% 45% 42% Capital Efficiency - Average for the YearTotal farm capital per bearing acre $\$4,009$ $\$4,180$ $\$3,884$ Total farm capital per fruit acre $\$3,596$ $\$3,768$ $\$3,406$ Capital turnover, years 1.4 1.9 2.0 ProfitabilityNet farm income: $\$148,708$ $\$12,618$ $\$(41,595)$ Without appreciation $\$168,666$ $\$18,134$ $\$(26,753)$ Labor & management income per operator $\$70,454$ $\$(12,400)$ $\$(39,067)$ Rate of return to average capital with appreciation: $19,4\%$ -5.6% -13.8% Total capital 16.2% -2.5% -7.2% Financial Summary - End of Year $\$672,684$ $\$656,692$ $\$574,704$ Debt to asset ratio 0.25 0.31 0.37 Debt per bearing acre $\$1,059$ $\$1,290$ $\$1,426$	All equipment			\$354
Capital Efficiency - Average for the Year Total farm capital per bearing acre \$4,009 \$4,180 \$3,884 Total farm capital per fruit acre \$3,596 \$3,768 \$3,406 Capital turnover, years 1.4 1.9 2.0 Profitability Net farm income: \$148,708 \$12,618 \$(41,595) Without appreciation \$168,666 \$18,134 \$(26,753) Labor & management income per operator \$70,454 \$(12,400) \$(39,067) Rate of return to average capital with appreciation: Equity capital 19.4% -5.6% -13.8% Total capital 16.2% -2.5% -7.2% 7.2% Financial Summary - End of Year \$672,684 \$656,692 \$574,704 Debt to asset ratio 0.25 0.31 0.37 Debt per bearing acre \$1,059 \$1,290 \$1,426				
Total farm capital per bearing acre\$4,009\$4,180\$3,884Total farm capital per fruit acre\$3,596\$3,768\$3,406Capital turnover, years1.41.92.0 Profitability Net farm income: Without appreciation\$148,708\$12,618\$(41,595)With appreciation\$168,666\$18,134\$(26,753)Labor & management income per operator\$70,454\$(12,400)\$(39,067)Rate of return to average capital with appreciation: Equity capital19.4%-5.6%-13.8%Total capital16.2%-2.5%-7.2%Financial Summary - End of YearFarm: Net worth Debt to asset ratio\$672,684\$656,692\$574,704Debt per bearing acre\$1,059\$1,290\$1,426	Hired labor as percent of operating expenses	42%	45%	42%
Total farm capital per fruit acre\$3,596\$3,768\$3,406Capital turnover, years1.41.92.0 Profitability Net farm income: Without appreciation\$148,708\$12,618\$(41,595)Without appreciation\$168,666\$18,134\$(26,753)Labor & management income per operator\$70,454\$(12,400)\$(39,067)Rate of return to average capital with appreciation: Equity capital19.4%-5.6%-13.8%Total capital16.2%-2.5%-7.2%Financial Summary - End of YearFarm: Net worth Debt to asset ratio Debt per bearing acre\$1,059\$1,290\$1,426				
Capital turnover, years 1.4 1.9 2.0 Profitability Net farm income: \$148,708 \$12,618 \$(41,595) Without appreciation \$168,666 \$18,134 \$(26,753) Labor & management income per operator \$70,454 \$(12,400) \$(39,067) Rate of return to average capital with appreciation: Equity capital 19.4% -5.6% -13.8% Total capital 16.2% -2.5% -7.2% -7.2% Financial Summary - End of Year Farm: \$672,684 \$656,692 \$574,704 Debt to asset ratio 0.25 0.31 0.37 Debt per bearing acre \$1,059 \$1,290 \$1,426				
Profitability Net farm income: Without appreciation \$148,708 \$12,618 \$(41,595) With appreciation \$168,666 \$18,134 \$(26,753) Labor & management income per operator \$70,454 \$(12,400) \$(39,067) Rate of return to average capital with appreciation: Equity capital 19.4% -5.6% -13.8% Total capital 16.2% -2.5% -7.2% Financial Summary - End of Year Farm: Net worth \$672,684 \$656,692 \$574,704 Debt to asset ratio 0.25 0.31 0.37 Debt per bearing acre \$1,059 \$1,290 \$1,426				
Net farm income: *148,708 \$12,618 \$(41,595) Without appreciation \$168,666 \$18,134 \$(26,753) Labor & management income per operator \$70,454 \$(12,400) \$(39,067) Rate of return to average capital with appreciation: 19.4% -5.6% -13.8% Total capital 16.2% -2.5% -7.2% Financial Summary - End of Year *672,684 \$656,692 \$574,704 Debt to asset ratio 0.25 0.31 0.37 Debt per bearing acre \$1,059 \$1,290 \$1,426	Capital turnover, years	1.4	1.9	2.0
Without appreciation\$148,708\$12,618\$(41,595)With appreciation\$168,666\$18,134\$(26,753)Labor & management income per operator\$70,454\$(12,400)\$(39,067)Rate of return to average capital with appreciation: Equity capital19.4% -5.6% -13.8% Total capital16.2% -2.5% -7.2% Financial Summary - End of YearFarm: Net worth\$672,684\$656,692\$574,704Debt to asset ratio 0.25 0.31 0.37 Debt per bearing acre\$1,059\$1,290\$1,426	Profitability			
With appreciation\$168,666\$18,134\$(26,753)Labor & management income per operator\$70,454\$(12,400)\$(39,067)Rate of return to average capital with appreciation: Equity capital19.4% -5.6% -13.8% Total capital16.2% -2.5% -7.2% Financial Summary - End of YearFarm: Net worth Debt to asset ratio 0.25 0.31 0.37 Debt per bearing acre\$1,059\$1,290\$1,426		+	+ - 0	
Labor & management income per operator $\$70,454$ $\$(12,400)$ $\$(39,067)$ Rate of return to average capital with appreciation: 19.4% -5.6% -13.8% Total capital 19.4% -5.6% -13.8% Total capital 16.2% -2.5% -7.2% Financial Summary - End of Year Farm: $8672,684$ $\$656,692$ $\$574,704$ Debt to asset ratio 0.25 0.31 0.37 Debt per bearing acre $\$1,059$ $\$1,290$ $\$1,426$				
Rate of return to average capital with appreciation: 19.4% -5.6% -13.8% Equity capital 19.4% -5.6% -13.8% Total capital 16.2% -2.5% -7.2% Financial Summary - End of Year Farm: $8672,684$ $$656,692$ $$574,704$ Debt to asset ratio 0.25 0.31 0.37 Debt per bearing acre $$1,059$ $$1,290$ $$1,426$	With appreciation			\$(26,753)
Equity capital Total capital 19.4% -5.6% -13.8% Total capital 16.2% -2.5% -7.2% Financial Summary - End of Year Farm: Net worth \$672,684 \$656,692 \$574,704 Debt to asset ratio 0.25 0.31 0.37 Debt per bearing acre \$1,059 \$1,290 \$1,426	Labor & management income per operator		\$(12,400)	\$(39,067)
Total capital 16.2% -2.5% -7.2% Financial Summary - End of Year Farm: \$672,684 \$656,692 \$574,704 Debt to asset ratio 0.25 0.31 0.37 Debt per bearing acre \$1,059 \$1,290 \$1,426			F 00/	10.00/
Financial Summary - End of Year Farm: Net worth \$672,684 \$656,692 \$574,704 Debt to asset ratio 0.25 0.31 0.37 Debt per bearing acre \$1,059 \$1,290 \$1,426				
Farm:\$672,684\$656,692\$574,704Net worth\$672,684\$656,692\$574,704Debt to asset ratio0.250.310.37Debt per bearing acre\$1,059\$1,290\$1,426	lotal capital	16.2%	-2.5%	-7.2%
Net worth\$672,684\$656,692\$574,704Debt to asset ratio0.250.310.37Debt per bearing acre\$1,059\$1,290\$1,426	-			
Debt to asset ratio0.250.310.37Debt per bearing acre\$1,059\$1,290\$1,426		\$670 COA	¢656 600	AE74 704
Debt per bearing acre \$1,059 \$1,290 \$1,426				
Cash now coverage facto 1.51 0.52 0.16				
	Cash now coverage ratio	1.91	0.92	0.16

Western New York, 1991-1993			
Selected Factors	Average p 1991	er Farm.Same 1992	<u>19 Farms in:</u> 1993
Size of Business	000	000	000
All cropland including fruit, acres	280	293	300
All fruit including non-bearing, acres	260	268	276
Bearing fruit, acres	233 193	242 198	242 199
Bearing apples, acres Fresh - percent of all apple acres	48%	49%	50%
Apples produced, bushels	114,223	124,346	90,533
Apples sold, bushels	116,525	115,160	95,518
Worker equivalent	10.72	11.91	10.78
Total accrual operating receipts	\$618,724	\$518,883	\$442,089
			,
Rates of Production			
All apples, bushels per bearing acre	590	628	456
Fresh - percent of apples harvested	37%	40%	41%
Cherries - tart, pounds per bearing acre	8,364	6,444	4,340
Pears, bushels per bearing acre	227	256	221
Non-bearing to bearing acre ratio	11%	11%	14%
Labor Efficiency			
Bearing fruit, acres per worker	22	20	22
All fruit, acres per worker	24	23	26
Accrual receipts per worker	\$57,720	\$43,577	\$41,021
Cost Costal Asserval			
Cost Control - Accrual			
Cost per bearing acre: All labor	\$910	\$1,007	\$873
All equipment	\$334	\$357	\$353
Spray	\$272	\$282	\$252
Hired labor as percent of operating expenses	44%	47%	42%
mice abor as precine or operating expenses	11/0	1770	12/0
Capital Efficiency - Average for the Year			
Total farm capital per bearing acre	\$3,897	\$4,012	\$3,823
Total farm capital per fruit acre	\$3,497	\$3,614	\$3,352
Capital turnover, years	1.4	1.9	2.0
Profitability			
Net farm income:			
Without appreciation	\$162,347	\$18,991	\$(43,456)
With appreciation	\$182,407	\$24,065	\$(29,387)
Labor & management income per operator	\$ 69,037	\$(8,756)	\$(40,473)
Rate of return to average capital with	+ 00,001	<i>\(\(\)</i> , <i>\(\)</i> , <i>\(\</i>	<i>\(\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>
appreciation:			
Equity capital	1 9.0%	-5.1%	-14.1%
Total capital	15.9%	-2 .1%	-7.4%
Financial Summary - End of Year			
Farm:	AR00 050	A000 011	
Net worth	\$730,356	\$663,911	\$580,778
Debt to asset ratio	0.25	0.30	0.37
Debt per bearing acre	\$1,025	\$1,194	\$1,389
Cash flow coverage ratio	2.27	1.04	0.15

Table 25.	Progress of the Fruit Farm Business, Same Summary Farms,
	Western New York, 1991-1993

Table 26.Progress of the Fruit Farm Business, My Farm, 1991-1993

Selected Factors	1991	1992	1993	Goal
Size of Business All cropland incl. fruit, acres All fruit incl. non-bearing, acres Bearing fruit, acres Bearing apples, acres Fresh - % of all apple acres Apples produced, bushels Apples sold, bushels Worker equivalents Total accrual oper. receipts		% % 	% % 	% % \$
Rates of Production All apples, bushels/bearing acre Fresh - % of apples harvested Cherries - tart, lbs./bearing acre Pears, bushels/bearing acre Non-bearing to bearing acre ratio	<u>%</u> %	%	% %	% %
Labor Efficiency Bearing fruit, acres/worker All fruit, acres/worker Accrual receipts/worker	\$	\$	 \$	<u> </u>
Cost Control - Accrual Cost/bearing acre: All labor All equipment Spray Hired labor as % of oper. exp.	\$ \$%	\$ \$ \$%	\$ \$ \$%	\$ \$ \$%
Capital Efficiency - Average for the Year Total farm capital/bearing acre Total farm capital/fruit acre Capital turnover, years	\$ \$	\$ \$	\$ \$	\$ \$
Profitability Net farm income: Without appreciation With appreciation Labor & mgmt. income/oper. Rate of return to average capital w/apprec.: Equity capital Total capital	\$%	\$ \$ \$%	\$ \$ *%	\$ \$ \$%
Financial Summary - End of Year Farm: Net worth Debt to asset ratio Debt/bearing acre Cash flow coverage ratio	\$ \$	\$ \$	\$ \$	\$ \$

OTHER A.R.M.E. EXTENSION BULLETINS (Formerly A.E. Extension Publications)

- John R. Brake No. 94-17 Financial Consideratons When Expanding Your Dairy Farming Operation Faculty & Staff Cornell University No. 94-18 Your Dairy in Transition Your Farm and the Industry Faculty & Staff Your Dairy in Transition A No. 94-19 Planning Process for Considering Cornell University Dairy Farm Expansion Your Dairy in Transition Winding No. 94-20 John R. Brake Down Your Farm Operation Stuart F. Smith No. 94-21 Dairy Farm Business Summary Eastern New York Renter Summary Linda D. Putnam 1993 No. 94-22 Income Tax Consequences of Farm George Casler Debt Cancellation and Bankruptcy No. 94-23 Farm Income Tax Management and George L. Casler Reporting Reference Manual Stuart F. Smith No. 94-24 Dairy Farm Business Summary New Jason Karszes York Large Herd Farms, 300 Cows or Stuart F. Smith Larger 1993 Linda D. Putnam New York Economic Handbook 1995 A.R.M.E. Staff No. 94-25 Agricultural Situation and Outlook No. 94-26 Census of Agriculture Highlights W. Knoblauch L. Putnam New York State, 1992 B. Stanton
 - N. Merrill