SUMMARY

LAKE ONTARIO REGION NEW YORK 1994

Gerald B. White Alison DeMarree Linda D. Putnam

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

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 1994 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.

1994 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	17
Equipment Analysis	17
Labor Analysis	18
Cropping Program Analysis	19
Cost Control Factors	20
PROGRESS OF THE FARM BUSINESS	20

1994 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 1994.

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 1994 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 26.2 million bushels in 1994. Western New York growers produced 17.9 million bushels or about 68 percent of the total State crop. Statewide, production was up 27 percent and in Western New York it was up about 37 percent compared to 1993.

Thirty-one percent of the 1994 apple crop produced in Western New York was sold fresh. This was up from 29 percent of the crop for 1993. The 1994 fresh crop was 5.5 million bushels - up 45 percent from 1993. Processing apple production in Western New York increased 33 percent from 1993 to 12.4 million bushels for 1994. Sixty-nine percent of the Western New York crop was processing apples.

Western New York processing apple prices averaged \$3.00 per bushel or 7.1 cents per pound in 1994, 1 percent above 1993, while fresh apple prices averaged \$12.87, down 2 percent from 1993.

Statewide, fresh apple prices received by growers averaged \$7.56 per bushel net freight-on-board (F.O.B.), \$0.25 per bushel higher than the average 1993 price. Processing apples, produced mostly in Western counties, averaged \$2.84 per bushel or 6.8¢ per pound for 1994.

Table 1. Apple Production and Prices, New York State, 1990-1994

Table 1. Apple Pro	auction and	Prices, New 1	ork State, 19	30- 1994	
<u>Item</u>	1990	1991	_1992	1993	1994
Production		I	nillion bushel	s	
Fresh Apples					
Western New York	5.5	4.3	5.0	3.8	5.5
New York State	12.4	10.0	12.4	9.5	11.7
Processing Apples					
Western New York	9.8	12.9	13 .1	9.3	12.4
New York State	11.2	15.0	15.5	11.2	14.5
All Varieties					
Western New York	15.2	17.1	18.1	13.1	1 7 .9
New York State	23.6	25.0	27 .9	20.7	26.2
Average Price Received Per Bushel			dollars		
Fresh Apples Western New York F.O.B. less pkg.,					
stg., etc.	8.65	8.61	6.68	8.11	N.A.
Bulk price	4.83	4.90	4.70	4.80	N.A.
Fruit Farm Business	Sum. 5.50	6.07	4.59	4.94	5.05
New York State F.O.B. less pkg.,					
stg., etc.	7.48	8.44	5.96	7.31	7.56
Bulk price	4.83	4.90	4.70	4.80	N.A.
Processing Apples					
Western New York	3.25	3.27	2.79	2.97	3.00
Fruit Farm Business		3.01	2.88	3.14	2.81
New York State	3.15	3.21	<u>2.71</u>	<u>2.79</u>	<u>2.84</u>

Source: New York Agricultural Statistics Service, FRUIT series, Seasonal releases for July 1991, 1992, 1993, 1994, and 1995 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, 1994

Type of Business	Number	Business Record System	Number
Proprietors Partnerships Corporations	6 7 7	Account Book Agrifax (mail-in) On-Farm Computer Other	5 0 15 0

Business Composition	Number
Fruit production only	7
Fruit with storage	4
Fruit & other enterprises	5
Fruit with storage & other enterprises	4

Farm Financial Status

1

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, 1993 and December 31, 1994 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.

Table 3. Farm Business Balance Sheet, 20 Western New York Fruit Farms, De-

	31, 1993				
			Farm Liabilities		
Farm Assets	1993	1994	& Net Worth	1993	1994
Current	\$	\$	Current =<1 year	\$	\$
Cash, checking, sav.	12,731	16,499	Accounts payable	27,696	
Accounts receivable	78,66 1	99,309	Operating debt	109,113	112,959
Prepaid expenses	6,028	5,221	Short-term	7,960	1,871
Fruit, other crops	73,094	79,213	Advanaced gov't receipts	0	0
Production supplies	8,713	7,309	Accrued interest	<u>375</u>	<u>926</u>
Packing supplies	<u>1.086</u>	<u>952</u>			
Total Current	180,314	208,504	Total Current	145,144	148,849
Intermediate			Intermediate =>1 to <10 ye	ears	
Livestock	0	0	Structured debt	53,453	71,449
Livestock leased	0	0	Financial lease-livestock		
Equipment owned	187,861	191,562	& equipment	4,940	3,040
Equipment leased	4,940	3,040	Farm Credit stock	7.574	9.011
Farm Credit stock	7,574	-			
Other stock, cert.	<u>45.337</u>	50.289			
Total Intermediate	245,713	253,903	Total Intermediate	65,967	83,500
Long-Term			Long-Term =>10 years		
Land/Buildings:			Structured debt	132,277	134,701
Owned	407 115	417,187	Financial lease -	102,2	10 1,7 0 1
Structures leased	0		structures	0	0
Total Long-Term	407,115	417,187	Total Long-Term	132,277	134,701
			Total Farm:		
			Liabilities	343,388	
Total Farm:			Net Worth	489,754	
Assets	833,142	879,594	Liabilities & Net Worth	833,142	879,594
Table 3a. Nonfar	m Assets &	Liabilities			
NonFarm Assets	1993	1994	NonFarm Liabilities	1993	1994
Ooch charlets as	1 000	1.600			10
Cash, checking, sav.	1,389	1,680		35	12
Life inscash value	5,219	4,758			
Real estate	0	0			
Auto (pers. share)	250	250			
Stocks & bonds	1,983	2,441			
Household furn.	325	1,075			
All other	<u>3.519</u>	<u>4.200</u>	Total Nonfarm: Liab.	35	12
Total NonFarm	19 694	14 404	Net Worth		
Assets	12,684	14,404	Liabilities & Net Worth	12.649 12,684	<u>14.392</u> 14,404
			Farm and Nonfarm	12,001	1,101
Acceto	DAE DOC	മവാ വവമ	Liabilities	2/2 /00	267 060
Assets	845,826	893,998	Liabilities	343,422	367,062
			Net Worth	502.404 845.826	<u>526.936</u>
			Liabilities & Net Worth	845,826	893,998

Table 4. Farm Business Balance Sheet, My Farm, December 31, 1993 & 1994

Farm Assets	1993	1994	Farm Liabilities & Net Worth	1993	1994
Current Cash, checking, sav.	\$	\$	<u>Current</u> = < 1 year Accounts payable	\$	\$
Accounts receivable			Operating debt		
Prepaid expenses			Short-term		
Fruit, other crops					
Production supplies					
Packing supplies			Advanced gov't receipts		
_			Accrual interest		
Total Current			Total Current		
Intermediate			Intermediate = > 1 to < 10	vears	
Livestock			Structured debt	,	
Livestock leased					
Equipment owned					
Equipment leased					
Farm Credit stock					
Other stock, cert.			Financial lease-livestock, equipment		
			Farm Credit stock		
Total Intermediate			Total Intermediate		
Long-Term			Long-Term = > 10 years		
Land/Buildings: Owned			Structured debt		
Structures leased			•		
			Financial lease-struc.		
Total Long-Term			Total Long-Term		
101111 101111			2019 10111		
			Total Farm:		
			Liabilities		
			Net Worth		
Total Farm Assets			Liabilities & Net Worth		

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.

Table 5. Farm Business Balance Sheet Analysis, 20 Western New York Fruit Farms, December 31, 1994

Item	20 Farms 1994	My Farm	
·	For the Farm Business Only		
Financial Ratios - end of year			
Percent equity	58%	%	
Debt to asset ratios:			
Total debt	0.42		
Long-term	0.32		
Current & intermediate	0.50		
Change in Net Worth			
Without appreciation	\$ (1,350)	\$	
With Appreciation	\$ 22,789	\$	
Debt Analysis - end of year			
Percent of total farm debt that is:		%	
Long-term	37%	%	
Current & intermediate	63 %	%	
Accounts payable only	9%		
<u>Debt Levels</u> - end of year			
Per bearing fruit acre:			
Total farm debt	\$ 1,723	\$	
Long-term	\$ 632	\$	
Current & intermediate	\$ 1,091	\$	

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).

Table 6. Farm Inventory Balance, 20 Western New York Fruit Farms, 1994

	20 Fn	uit Farm	My	Farm
	Real		Real	-
Inventory Balance	<u>Estate</u>	Equipment	<u>Estate</u>	Equipment
Beginning of year (1)	\$ 407,115	\$ 18 7 ,8 6 1	\$	\$
Purchases	\$ 12,755 ¹	\$ 18,477		
+ Noncash transfer to farm	0	0		
- Lost capital	894			.
- Sales	1,500	1,077		
- Depreciation	11,786	22,502		
= Net investment (2)	\$ (1,425)	\$ (5,102)		
Appreciation (3-1-2)	11,496 ²	8,803		
End of year (3)	\$417,187	\$ 191,562		

¹Purchase includes \$8,885 for land and \$3,870 for buildings.

Income Statement

1

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.

²Real estate appreciation excludes \$1 of appreciation on assets sold during the year.

Table 7. Income Statement - Farm Expenses, 20 Western New York Fruit Farms, 1994 Change in Cash inventory Change in amount or prepaid accounts Accrual paid Expenses expenses payable expenses Hired Labor Wages: regular \$ 48,423 \$ O (32)\$ 48.391 73,099 0 picking 0 73.099 other part-time. seasonal 24.296 0 0 24.296 Other labor costs 35,595 (260)6 35,340 Picker travel 835 0 835 0 Labor camp expenses 2,766 0 (35)2.732 Equipment Machine hire, rent, lease 10.604 (234)2.319 12.689 Repairs & parts 20,492 5 14 20,511 177 0 Auto expense - farm share 0 177 78 Fuel, oil & grease 11,128 (23)11,183 Livestock All livestock expenses 0 0 0 0 Crops Fertilizer & lime 10.431 138 988 11.557 Replacement trees & plants 1,546 0 0 1.546 48,518 1.100 8.590 Spray 58.208 Supplies, other prod. expense 9.452 33 271 9.756 Processing & packing supplies 887 134 20 1.041 11.189 (576)(350)10,263 Storage Marketing, selling expenses 992 0 187 1,178 Real Estate Repair - land, bldg., fences 2.334 0 192 2.527 **Taxes** 9,511 0 (499)9.012 Rent & lease 0 9,268 1,704 10.972 Other Expenses Insurance: fire, liability 7.662 0 (470)7.191 crop 183 0 0 183 Telephone - farm share 1.383 0 (1) 1.382 Electricity - farm share 0 4.069 604 4.672 Fruit purchased for resale 3,380 0 (918)2,462 Interest paid 24.636 0 2.354 26,990 Miscellaneous 50 10,026 (459)9.616 TOTAL OPERATING EXP. \$382,880 **\$468** \$14,460 \$397,808 Expansion orchard 10,930 (1,147)9,783 Depreciation: equipment 22,502 buildings 5.588 bearing trees & vines 6.198 TOTAL ACCRUAL EXPENSES **\$441,879**

Table 8. Income Statement, Farm Expenses, My Farm, 1994

Table 8. Income Statement,	i dain mipond		1001	
	Cash	Change in inventory	Change in	
	amount	or prepaid	Change in accounts	Accrual
Evnences			1.1	
Expenses	paid +	expenses	+ payable =	expenses
Hired Labor	œ	œ	æ	\$
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				
ruei, on a grease				
Livestock		,		
All livestock expenses				
THI IVESCOCK EXPENSES	-			
Crops				
Fertilizer & lime				
Replacement trees & plants				
Spray			**************************************	
Supplies, other prod. expense				
Processing & packing supplies				
Storage				
Marketing, selling expenses				
9				
Real Estate				
Repair - land, bldg., fences				
Taxes				
Rent & lease				
Other Expenses				
Insurance:				
fire, liability				
crop				
Telephone - farm share				
Electricity - farm share				
Fruit purchased for resale			<u> </u>	
Interest paid				
Miscellaneous				
TOTAL OPERATING EXP.	\$	\$	\$	\$
Expansion orchard				
Depreciation:				
equipment				
buildings				
bearing trees & vines				
	•			\$

Table 9. Income Statement, Farm Receipts, 20 Western New York Fruit Farms, 1994

Receipts	Cash Receipts		ange in entory	ac	nange in counts ceivable	Accrual = receipts
Angles, fresh	# 105 607	•	0.110	φ.	C 779	\$ 011 50
Apples: fresh	\$ 195,697	\$	9,112	\$	6,773	\$ 211,58 3
processing	168,499		(2,838)		13,646	179,307
Cherries: sweet	9,777				0	9,777
tart	21,017				3,247	24,264
Grapes	423				(62)	36 :
Peaches	4,842				(220)	4,622
Pears	7,266				(43)	7,223
Plums & prunes	800				0	800
All other fruit	3,167		(155)		0	3,013
Other crops, livestock & prod.	707		0		74	782
Custom work, storage, rent	23,173				1,705	24,878
Other - including government			•			
receipts, refunds	14,144		O^2		69	14,21
- Non-farm non-cash capital			0^3			,
TOTAL OPERATING RECEIPTS	\$449,512	\$	6,119	\$	25,190	\$ 480,820

^{&#}x27;Change in crop and livestock products inventory.

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, 1994

14510 101	miconic Statement,	1 02111 110001	p 00, 111, 1 00, 111,		
		Cash	Change in	Change in accounts	Accrual
۱					
Receipts	<u> </u>	receipts -	+ inventory	+ receivable	= receipts
Apples:		\$	\$	\$	\$
	processing				
Cherries:	sweet				
	tart				
Grapes					
Peaches					·
Pears					
Plums & 1					
All other	- -				
	ps, livestock & prod.				
	ork, storage, rent				
	cluding government , refunds				
- Non-fari	m non-cash capital		(-)		(-)
TOTAL O	PER. RECEIPTS	\$	\$	\$	\$

^{*}change in advanced government receipts.

^{*}Gifts and inheritances of livestock and crops to the farm business.

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.

Table 11. Net Farm Income, 20 Western New York Fruit Farms, 1994

Item	20 Farms 1994	Му Ғапп
Total accrual receipts	\$480,820	\$
+ Appreciation:		
Livestock	0	
Equipment	8,803	
Real estate	11,497	
Other - Stocks & certificates	<u>+3.839</u>	+
= Total accrual receipts with appreciation	\$504,959	\$
- Total accrual expenses	<u>-441.879</u>	
= Net farm income with appreciation	\$ 63,080	\$
Net farm income without appreciation	\$ 38,941	\$

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.

Table 12. Return to Operators' Labor, Management, and Equity Capital 20 Western New York Fruit Farms, 1994

Item	20 Farms 1994	My Farm
With appreciation: Net farm income - Family unpaid labor @ \$1,450 per month	\$ 63,080 943	\$
= Return to operators' labor, management, & equity	\$ 62,137	\$
Without appreciation: Net farm income - Family unpaid labor @ \$1,450 per month	\$ 38,941 943	\$
= Return to operators' labor, management, & equity	\$ 37,998	\$

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, 1994

Item	20 Farms 1994	My Farm
Without appreciation: Return to operators' labor, management, & equity	\$ 37,999	\$
- Real interest @ 5% on average equity capital = Labor & management income per farm	<u>-25.057</u> \$ 12,941	\$
Labor & management income per operator	\$ 8,836	\$

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.

Table 14. Return on Equity Capital and Return on Total Capital, 20 Western New York Fruit Farms, 1994

Item	20 Farms 1994	My Farm
Average equity capital	\$ 501,149	\$
Average total capital	\$ 856,368	\$
Returns with appreciation:		
Return to operators' labor, management		
& equity capital	\$ 62,138	\$
- Value of operators' labor & management	-47.921	
= Return on average equity capital	\$ 14,216	\$
+ Interest paid	+26.990	\$ +
= Return on average total capital	\$ 41,206	\$
Rates of return (with appreciation) on:		
Average equity capital	2.8%	%
Average total capital	4.8%	%
Returns without appreciation:		
Return on average equity capital		
with appreciation	\$ 14,216	\$
- Total appreciation	<u>-24.139</u>	\$ +
= Return on average equity capital	\$ (9,923)	\$
+ Interest paid	<u>+26.990</u>	<u>+</u>
= Return on average total capital	\$ 17,067	\$
Rates of return (without appreciation) on:		
Average equity capital	-2.0%	%
Average total capital	2.0%	%

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.

Table 15. Annual Cash Flow Statement, 20 Western New York Fruit Farms, 1994

Item	20 Farms 1994	My Farm
Cash Inflows		My I WIII
Beginning farm cash, checking, & savings	\$ 12,731	\$
Cash farm receipts	449,746	
Sale of assets:		
Equipment	1,077	
Real estate	1,442	
Other stocks & certificates	613	
Money borrowed:		
Increase in operating debt	3,845	
Short-term	199	
Intermediate	24,155	
Long-term	9,439	
Refinanced debt	0	
Non-farm:		
Income	1,036	
Capital used in business	1,396	
Money borrowed	0	
Total Cash Inflows	\$ 505,6 7 9	\$
Cash Outflows		
Cash farm expenses (excluding interest paid)	\$358,244	\$
Capital purchases:	φ030,244	Ψ
Expansion orchard	10,930	
Equipment	18,477	
Real estate	12,755	
Other stocks & certificates		
	1,726	
Debt payments:		
Principal payments for -	0	
Decrease in operating debt	0	
Short-term	6,288	
Intermediate	6,159	
Long-term	7,015	
Refinanced debt	0	
Interest paid	24,636	
Personal withdrawals & family expenditures in	ncluding	
non-farm debt payments & corporate operator		
labor costs	43,042	
Ending farm cash, checking & savings	16.499	
Total Cash Outflows	\$505,769	**************************************
Imbalance (error)	<u>\$(90)</u>	<u></u>

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, 1994

	20	Fruit Fari	ns		My Farm	
	Planned	Actual	Planned	Planned	Actual 1	Planned
	for I	Payments	for	for	payments	for
Debt Payments	1994¹	in 19942	1995	1994	1 <u>9</u> 94	1995
Accts. payable (net reduction)	\$ 2,770	\$ 0	\$ 0	\$	\$	\$
Operating (net reduction)	7,784	0	7,484			
Short-term (principal & int.)	6,662	7,113	581			
Intermediate (principal & int.)	8,708	10,067	8,888			
Long-term (principal & int.)	<u> 7.371</u>	<u>16.096</u>	<u>18.386</u>			
Total debt payments	\$33,294	\$33,275	\$35,340	\$	\$	\$
Payments as a percent of:						
Total accrual receipts	7%	7 %		9⁄0	%	
Total accrual fruit receipts	8%					
Payments per acre of:						
bearing fruit	\$ 156	\$ 156		\$	\$	
all fruit	\$ 137	\$ 137		<u>*</u> —	<u>*</u> ——	
Payments/bushel of apples so		,		\$	\$	

¹If on the Fruit Farm Business Summary the previous year.

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 1995. The worksheet provided in Table 18 can be used to estimate repayment ability which can then be compared to planned 1995 debt payments shown in Table 16.

Table 17. Cash Flow Coverage Ratio, 20 Western New York Fruit Farms, 1994

20 Farms 1994	My Farm
\$ 449 ,7 46	\$
382,880	
24,636	
42,006	
\$49,496	\$
\$33,294	\$
1.49	
	\$449,746 382,880 24,636 42,006 \$49,496 \$33,294

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

²Actual payments excluding refinanced debt.

Table 18. Annual Cash Flow Worksheet, 1994 and 1995 Projection

		Average	My Fa	rm. 1994 Per bear-	Expected	1995
Item		20 Farms	Total	ing acre		projection
Average bearing	ng acres of fruit	213				
Accrual Opera	ating Receipts (per	bearing acr	e)			
Apples: Free		\$ 993	\$	\$	\$	\$
	cessing	842				
All other fruit	•	235				
Other crops, li	vestock & products					
	storage & rent	117				
Other - includ	ing gove rn ment					
receipts, refu		<u>67</u>	,			
Total Opera	ting Receipts	\$2,25 7	\$	\$	\$	\$
Accrual Opera	ating Expenses (per	r bearing ac	re)			
Labor: Wag	ges	_				
re	gular	\$ 227				
	cking	343				
ot	ner part-time, seaso					
	er labor costs	166				
	ter travel, labor cam					
	chine hire, rent, leas					
	airs, parts & auto e	xp. 97				
Fue	l, oil & grease	52				
	ivestock expense	0				
	ilizer & lime	54				
Rep	lacement trees & pl	ants 7				
Spr	ay	273				
Sur	pplies, other prod. ex	xp. 46				
	rage	48				
	king supplies, mark					
\$6	elling exp.	10				
	air - land, bldg., fer	nces 12				
<u>T</u> ax		42				
	t & lease	51				
	rance - fire, liab., c					
ក្តុជា	ities - phone, elec.	28				
	ale items - fruit, etc					
	cellaneous	<u>45</u>				
Total Operatir		41741	φ.	φ.	Φ.	ф
Excluding In	nterest	\$1,741	\$	\$	\$	\$
	nalysis (Total)					
	erating income					
excluding		\$110,002	\$			\$
	restock & crop inv.	6,119				
	counts receivable	25,190				
	rop & supply inv.	468				
	ccounts payable	10.105				
excluding		12,105	<u>. </u>			-
Net Operating		\$91,268	\$			\$
 Net personal 		42,006	\$			
Available for d	ebt pymnts, invest.	\$ 49,262	\$			\$
	ayments: principal					
& interest		33,275				
Available for f	arm investment	\$15,987	\$ \$			\$
		טטט ניגים	er e			96
Capital purch Additional cap		\$43,888 \$ 27,901	₹			¥——

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.

Table 19. Capital Efficiency Analysis, 20 Western New York Fruit Farms, 1994

	A	rerage Capita	Investment	
	Per worker	Per Bear		Per all
Item	equivalent	Owned	<u>Operated</u>	fruit acres
Assets				
Total farm capital Real estate	\$80,475 38,731	\$5,802 2,792	\$4,020	\$3,528 1,698
All equipment	8,970	2,792 n/a	n/a 448	393
Capital turnover, years 1.70				
My Farm:				
Total farm capital Real estate All equipment	\$	\$	\$	\$
Capital turnover, years				

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, 1994

	Average 20 Fruit Farms				My Farm	
	Total		nt cost per		Equipment	
	equip.	fruit acre	operated:	equip.	fruit acre o	perated:
Item	<u>cost</u>	Bearing	All fruit	cost	Bearing	All fruit
Annual Accrual Cost						
Machine hire, equip. rent, lease	\$12,689	\$ 60	\$ 52	œ	\$	œ
Repair & parts	20.511	96	\$ 32 85	\$	Ψ	\$
Auto exp farm share	177	1	1			
Fuel, oil & grease	11,183	$5\overline{2}$	46			
Interest - avg. cap. @5%		45	39			
Depreciation	22,502	_106	<u>93</u>			
Total Equipment Cost	\$76,547	\$359	\$ 315	\$	\$	\$

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.

Table 21. Labor Force Inventory and Analysis, 20 Western New York Fruit Farms, 1994

	Full-time	Age,	Years of	Value of
Labor Force	months	years_	Education	labor/mgmt.
Amazada				
Average: Operator -				
number 1	9.0	45	15	\$24,707
number 2	4.6	44	14	12,592
number 3	3.1	39	14	7,972
number 4	1.0	40	16	2.650
Family unpaid	0.7			tal \$47,921
Family paid	6.0		Avg./o	per. \$32,823
Hired -				
regular	25.7			
picking	58.2			
other part-time, seasonal	19.6			
Total	127.7	mo /19 - 1	In 64 mortos a	antralent
Total	127.7		10.64 worker 6 1.46 oper./ma	
My Farm:		4.0	•	
Total	 -	$mo./12 = _{-0.00}$	worker eq	uivalent
Operators		mo./12 = _	oper./mai	nager equiv.
	Av	erage	My	Farm
Labor Efficiency	Total	Per Worker	Total	Per worker
Bearing fruit, acres	213.1	20.0		
Total fruit, acres	242.7	22.8		
Apples sold, bushels	106,355	9,994		
Accrual receipts		45,184	\$	\$
Accrual fruit receipts	<u>\$440,948</u>	41,437	<u>\$</u> _	
Labor Cost or Value	· · · · · · · · · · · · · · · · · · ·	Annual Ac	crual Cost	
	Average 20		My I	arm
	Per			Per Per
Type	worke Totalequiv	er bearing 7. acre		rker bearing uiv. acre
Type		acic_	Total Co	uiv. acic
Value of operator(s) labor @	40-40-4			
\$1,450/mo.	\$ 25,484 \$ 2,39		\$ \$	· \$
Family unpaid @ \$1,450/mo.		39 4 55 63		
Family paid (excl. operator) Hired -	13,354 1,25	55 63		
regular (excluding operator)	48,947 4,60	00 230		
picking	92,465 8,69	90 434		
other part-time, seasonal	30.194 2.83			
All fabor (incl. non-cash)	\$211,386 \$19,86	67 \$ 992	\$ \$	\$
All equipment cost	<u>76.547</u> 7.19	359		
Total labor & equip. cost	\$287 <u>,933</u> \$27,06	<u> </u>	\$ <u></u> _\$	<u> </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, 1994

Land Class (end of year)	Item		verage 20		Owned R	Farm ented Total
Bearing fruit, acres 147.6 65.4 213.1 25.6 4.0 29.7 25.6 35.5 29.9 5.6 35.5 29.9 5.6 35.5 29.9 5.6 35.5 29.9 5.6 35.5 29.9 5.6 35.5 29.9 5.6 35.5 29.9 5.6 35.5 29.9 5.6 35.5 29.9 5.6 35.5 29.9 5.6 35.5 29.9 5.6 35.5 29.9 5.6 35.5 29.9 5.6 35.5 29.9 3.4 3.3 29.9 3.4 3.3 29.9 29.9 3.4 3.3 29.9 29.9 3.4 3.3 29.9 29.9 3.4 3.3 29.9 29.9 3.4 3.3 29.9 29.9 3.2 29.9 29	Item	<u>Ow</u>	neu Ren	iteu Totai	Owned K	enteu rotai
Bearing fruit, acres 147.6 65.4 213.1 25.6 4.0 29.7 25.6 35.5 29.9 5.6 35.5 29.9 5.6 35.5 29.9 5.6 35.5 29.9 5.6 35.5 29.9 5.6 35.5 29.9 5.6 35.5 29.9 5.6 35.5 29.9 5.6 35.5 29.9 5.6 35.5 29.9 5.6 35.5 29.9 5.6 35.5 29.9 5.6 35.5 29.9 5.6 35.5 29.9 5.6 35.5 29.9 341.3 29.9 29.9 341.3 29.9 29	Land Class (end of year)					
Non-bearing fruit, acres	Bearing fruit, acres	147	.6 65.	4 213.1		
Other crops, open, acres 29.9 5.6 35.5 Non-tillable pasture, acres 4.2 0.0 4.2 Other non-tillable, acres 32.0 9.3 41.3 Total land operated 239.4 84.3 323.7 For farms having the fruit: No. of Average Yield Total Yield farms acres per acre Bearing Fruit: Apples - fresh 20 88.7 450 bu. decress per acre Apples - fresh 20 89.8 710 bu. decress per acre Ball apples 20 178.5 581 bu. decress decress decress decress per acre Sweet 6 9.9 5.399 lb. decress decres		_				
Non-tillable pasture, acres 4.2 0.0 4.2		29	.9 5.	6 35.5		
Total land operated 239.4 84.3 323.7	Non-tillable pasture, acres	4	.2 0.	0 4.2		
For farms having the fruit: No. of Average Yield Total Yield farms acres per acre Total per acre		32	.0 9.	3 41.3		
No. of Average Yield Total Yield farms acres per acre acres per acre acres per acre	Total land operated	239	.4 84.	3 323.7		
No. of Average Yield Total Yield farms acres per acre acres per acre acres per acre		For far	ms havir	ng the fruit:		
Crop Production farms acres per acre acres per acre Bearing Fruit: Apples -		No. of	Average	Yield	Total	Yield
Apples - fresh	Crop Production				acres	per acre
Apples - fresh	Bearing Fruit:					
fresh 20 88.7 450 bu. bu. processing 20 89.8 710 bu. bu. all apples 20 178.5 581 bu. bu. Cherries sweet 6 9.9 5,399 lb. ll. Examples 1 7.8 7.6 tn. ll. Grapes 1 7.8 7.6 tn. lt. Peaches 8 9.4 79 bu. lt. Pears 10 10.2 279 bu. lt. Plums, prunes 5 3.7 404 bu. lt. Other fruit 3 8.4 Total bearing fruit: 20 213.1 Non-Bearing Fruit: Apples 17 25.8 Fresh 17 25.8 processing 2 47.0 Cherries sweet 3 7.5 tart 2 10.6						
all apples 20 178.5 581 bu. bu. Cherries 5 3.99 5,399 lb. ll. sweet 6 9.9 5,399 lb. ll. tart 10 40.3 8,041 lb. ll. Grapes 1 7.8 7.6 tn. tr. Peaches 8 9.4 79 bu. bu. Pears 10 10.2 279 bu. bu. Plums, prunes 5 3.7 404 bu. bu. Other fruit 3 8.4 4 Total bearing fruit 20 213.1 213.1 Non-Bearing Fruit: Apples 17 25.8		20	88.7	450 bu.		bu.
Cherries sweet 6 9.9 5,399 lb. tart 10 40.3 8,041 lb. Grapes 1 7.8 7.6 tn. Peaches 8 9.4 79 bu. Pears 10 10.2 279 bu. Plums, prunes 5 3.7 404 bu. Other fruit 3 8.4 Total bearing fruit 20 213.1 Non-Bearing Fruit: Apples fresh 17 25.8 processing 2 47.0 Cherries sweet 3 7.5 tart 2 10.6 Other non-bearing fruit acres 19 31.2						bu.
sweet 6 9.9 5,399 lb. II tart 10 40.3 8,041 lb. II Grapes 1 7.8 7.6 tn. tr Peaches 8 9.4 79 bu. tr Pears 10 10.2 279 bu. tr Plums, prunes 5 3.7 404 bu. tr Other fruit 3 8.4 3.4 3.4 Total bearing fruit 20 213.1 213.1 213.1 Non-Bearing Fruit: Apples 17 25.8 5.8	all apples	20	178.5	581 bu.		bu.
tart 10 40.3 8,041 lb.	Cherries	_				
Grapes 1 7.8 7.6 tn. treaches treaches 8 9.4 79 bu. treaches trea						lb.
Peaches 8 9.4 79 bu. bu. Pears 10 10.2 279 bu. bu. Plums, prunes 5 3.7 404 bu. bu. Other fruit 3 8.4 Total bearing fruit 20 213.1 Non-Bearing Fruit: Apples 17 25.8 processing 2 47.0 Cherries 3 7.5 sweet 3 7.5 tart 2 10.6 Other non-bearing 6 2.9 Total non-bearing fruit acres 19 31.2						lb.
Pears 10 10.2 279 bu. bu. Plums, prunes 5 3.7 404 bu. bu. Other fruit 3 8.4 Total bearing fruit 20 213.1 Non-Bearing Fruit: Apples 17 25.8 processing 2 47.0 Cherries sweet 3 7.5 tart 2 10.6 Other non-bearing 6 2.9 Total non-bearing fruit acres 19 31.2						tn.
Plums, prunes 5 3.7 404 bu. bu. Other fruit 3 8.4						bu.
Other fruit 3 8.4 Total bearing fruit 20 213.1 Non-Bearing Fruit: Apples 17 25.8 fresh 2 47.0 Cherries 3 7.5 sweet 3 7.5 tart 2 10.6 Other non-bearing 6 2.9 Total non-bearing fruit acres 19 31.2						bu.
Non-Bearing Fruit: 20 213.1 Apples 17 25.8 fresh 2 47.0 Cherries 3 7.5 sweet 2 10.6 Other non-bearing 6 2.9 Total non-bearing fruit acres 19 31.2	Plums, prunes			404 Du.		bu.
Non-Bearing Fruit: Apples 17 25.8						
Apples 17 25.8	lotal bearing iruit	20	213.1			
fresh 17 25.8 processing 2 47.0 Cherries						
processing 2 47.0 Cherries			07.0			
Cherries 3 7.5 sweet 2 10.6 tart 2 10.6 Other non-bearing 6 2.9 Total non-bearing fruit acres 19 31.2						
sweet 3 7.5 tart 2 10.6 Other non-bearing 6 2.9 Total non-bearing fruit acres 19 31.2		2	47.0			
tart 2 10.6 Other non-bearing 6 2.9 Total non-bearing fruit acres 19 31.2		n	7 -			
Other non-bearing 6 2.9 Total non-bearing fruit acres 19 31.2	7 7 7 7 7	ა ი				
Total non-bearing fruit acres 19 31.2		Z				
	Total non bearing fruit cores					
Other Crops Open	Total non-bearing fruit acres	19	31.2			
other crops, open:	Other Crops, Open:					
Other 17 41.7	Other	17	41.7			

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.

Table 23. Cost Control Factors, 20 Western New York Fruit Farms, 1994

	Cost Per Fruit Acre Operated			
Item	Bearing acres	All fruit acres		
All labor - including operators' labor	\$992	\$871		
Picking labor	434	381		
Other hired labor	434	381		
All equipment cost	359	315		
Spray	273	240		

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.

Table 24. Progress of the Fruit Farm Business, Western New York Fruit Farms, 1992-1994

Farms, 1992-1994			_
Selected Factors	1992	1993	1994
Number of farms	22	20	20
Size of Business			
All cropland including fruit, acres	290	295	278
All fruit including non-bearing, acres	259	$\overline{270}$	243
Bearing fruit, acres	233	237	213
Bearing apples, acres	189	195	179
Fresh - percent of all apple acres	47%	50%	50%
Apples produced, bushels	121,305	89,046	103,644
Apples sold, bushels	114,655	94 ,019	106,355
Worker equivalent	11.21	10.62	10.64
Total accrual operating receipts	\$449,52 1	\$ 435,358	\$48 0,820
Rates of Production			
All apples, bushels per bearing acre	640	456	58 1
Fresh - percent of apples harvested	_37%	41%	39%
Cherries - tart, pounds per bearing acre	7,330	4,340	8,041
Pears, bushels per bearing acre	279	221	279
Non-bearing to bearing acre ratio	11%	14%	14%
Labor Efficiency			_
Bearing fruit, acres per worker	21	22	20
All fruit, acres per worker	23	25	23
Accrual receipts per worker	\$ 44,580	\$40,988	\$45,184
Cost Control - Accrual			
Cost per bearing acre:			
All labor	\$991	\$875	\$ 992
All equipment	\$368	\$354	\$ 359
Spray	\$287	\$253	\$273
Hired labor as percent of operating expenses	45%	42%	46%
Capital Efficiency - Average for the Year	#4 100	# 0.004	#4.000
Total farm capital per bearing acre	\$4,180 \$2,768	\$3,884 \$3,406	\$4,020 \$2,500
Total farm capital per fruit acre	\$3,768 1.9	\$3,406 2.0	\$3,528
Capital turnover, years	1.9	2.0	1.7
Profitability			
Net farm income:	***	****	400044
Without appreciation	\$12,618	\$(41,595)	\$38,941
With appreciation	\$18,134	\$(26,753)	\$63,080
Labor & management income per operator	\$(12,400)	\$(39,067)	\$8,836
Rate of return to average capital with apprecia		19 004	0.004
Equity capital	-5.6%	-13.8%	2.8%
Total capital	-2.5%	-7.2%	4.8%
Financial Summary - End of Year			
Farm: Net worth	\$656,692	\$574,704	\$512,543
Debt to asset ratio	0.31	0.37	0.42
Debt per bearing acre	\$1,290	\$1,426	\$1,723
Cash flow coverage ratio	0.92	0.18	1.49

Table 25. Progress of the Fruit Farm Business, Same Summary Farms, Western New York, 1992-1994

Western New York, 1992-1994			
	Arramada =	or Form Same	17 Forms in:
Selected Factors	199 2	er Farm.Same 1993	17 Farms in: 1994
	1002		1001
Size of Business			
All cropland including fruit, acres	276	286	295
All fruit including non-bearing, acres	250	259	25 8
Bearing fruit, acres	226	229	225
Bearing apples, acres	183	186	187
Fresh - percent of all apple acres	47%	48%	48%
Apples produced, bushels	117,924	83,058	108,445
Apples sold, bushels	110,388 11.27	91,274 10.55	111,623
Worker equivalent Total accrual operating receipts	\$496,743	\$417,363	11.03 \$ 499,186
Total accidal operating receipts	φτ30,743	Ψ117,505	Ф 4 33,100
Rates of Production			
All apples, bushels per bearing acre	643	445	57 9
Fresh - percent of apples harvested	36%	40%	36%
Cherries - tart, pounds per bearing acre	5,877	4,324	7,730
Pears, bushels per bearing acre	260	219	279
Non-bearing to bearing acre ratio	11%	13%	15%
Labor Efficiency			
Bearing fruit, acres per worker	20	22	20
All fruit, acres per worker	$\tilde{2}\tilde{2}$	25	23
Accrual receipts per worker	\$44,076	\$39,545	\$45,238
• •	, ,		,,
Cost Control - Accrual			
Cost per bearing acre:	4000	4.000	
All labor	\$992	\$839	\$962
All equipment	\$350	\$340	\$360
Spray Hired labor as percent of operating expenses	\$27 8 46%	\$239	\$265
rined labor as percent or operating expenses	40%	42%	46%
Capital Efficiency - Average for the Year			
Total farm capital per bearing acre	\$4,101	\$3,867	\$3,896
Total farm capital per fruit acre	\$3,706	\$3,416	\$3,400
Capital turnover, years	1.8	2.1	1,7
•			-1.
Profitability			
Net farm income:			
Without appreciation	\$31,129	\$(27,912)	\$37,318
With appreciation	\$38,690	\$(17,823)	\$61,482
Labor & management income per operator	\$ (556)	\$(30,371)	\$7 ,804
Rate of return to average capital with			
appreciation:	_9 E04	_1.4.004	0.404
Equity capital Total capital	-3.5% -0.5%	-14.0% -6.5%	2.4% 4.6%
i otai Capitai	-0.0%	-0.570	4.070
Financial Summary - End of Year			
Farm:	4500 0-0	4=00.000	A=00
Net worth	\$596,873	\$522,930	\$520,516
Debt to asset ratio	0.35	0.41	0.42
Debt per bearing acre	\$1,406	\$1,557	\$1,695
Cash flow coverage ratio	1.15	0.25	1.52

Table 26. Progress of the Fruit Farm Business, My Farm, 1992-1994

Selected Factors	1992	1993	1994	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	% %	% %	% %	%
Labor Efficiency Bearing fruit, acres/worker All fruit, acres/worker Accrual receipts/worker	\$		*	\$
Cost Control - Accrual Cost/bearing acre: All labor All equipment Spray Hired labor as % of oper. exp.	\$ \$ \$ 9	\$ \$ \$%	\$ \$ \$%	\$ \$ \$%
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	\$ \$	\$	\$ \$	\$ \$

NOTES

OTHER A.R.M.E. EXTENSION BULLETINS

No. 95-17	Dairy Farm Business Summary Eastern Plateau Region 1994	Robert A. Milligan Linda D. Putnam John S. Carlson Carl A. Crispell Karen Hoffman
No. 95-18	Dairy Farm Business Summary Northern Hudson Region 1994	Stuart F. Smith Linda D. Putnam Cathy S. Wickswat Anita W. Deming David R. Wood
No. 95-19	Dairy Farm Business Summary Eastern New York Renter Summary 1994	Stuart F. Smith Linda D. Putnam
No. 95-20	Seneca County's Local Governments: Opportunities for Intergovernmental Cooperation, Needs for Educational and Technical Assistance	David Kay Duane Wilcox
No. 95-21	Farm Income Tax Management and Reporting Reference Manual	Stuart F. Smith Charles H. Cuykendall
No. 95-22	Income Tax Implications for Farmers Receiving New York City Watershed Agricultural Program Payments	John M. Thurgood
No. 95-23	New York Economic Handbook 1996 Agricultural Situation and Outlook	A.R.M.E Staff
No. 95-24	Bee Economics A Computer Model for Economic Analysis of Beekeeping Operations	Lois Schertz Willet Nicholas W. Calderone Malcolm T. Sanford