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DAIRY FARM BUSINESS SUMMARY

TABLE OF CONTENTS

	Page
Introduction	. 1
Program Objectives	. 1
Changes in Computation	. 1
Summary of The Farm Business	
Business Characteristics	. 2
Inventory Accounting	. 3
Receipts	. 4
Expenses	. 5
Farm Business Profitability	. 6
Farm Family Financial Situation	. 8
Analysis of the Farm Business	. 10
Size of Business	. 10
Rates of Production	. 11
Labor Efficiency	. 12
Capital Efficiency	. 13
Cost Control	. 14
Machinery, Labor and Miscellaneous Costs	. 15
Yearly Cash Flow Planning and Analysis	. 16
Progress of the Farm Business	. 17
Management Performance of Statewide Cooperators	
Massura Vaur Managamant Performance	. 26

DAIRY FARM BUSINESS SUMMARY

INTRODUCTION

Dairyfarmers throughout New York State submit business records for summarization and analysis through Cooperative Extension's Farm Business Management Program. Each participating farmer receives an individual farm analysis report containing all the management information found in this publication. Averages from a compilation of the individual farm reports are published in several regional summaries and in a statewide summary.

The year ahead will bring increased economic pressures on the dairy farming industry. Milk prices are expected to be down three to five percent while feed and other production costs will increase. Dairyfarmers must continue to place emphasis on operating efficiency and cost control in order to maintain adequate farm incomes.

Program Objectives

Primary objectives of the dairy farm business management program are to (1) assist farmers in developing and maintaining more complete farm business data for use in management decisions and (2) help farmers improve their management skills through appropriate use of farm record data and application of modern decision-making techniques. This report is prepared in workbook form for use in the systematic study of individual farm business operations.

Changes in Computation

The interest charge made for using equity capital in the farm business has been changed to five percent. This real rate of interest reflects the long time average rate of return that a farmer might expect to earn in investments with comparable risk to farm businesses in an economy with little or no inflation. Labor and management income does not include appreciation of farm assets, therefore, appreciation has been excluded in determining the use charge for equity capital.

Renting and leasing farm assets is becoming more common on New York dairy farms. Rental and lease payments are included as cash farm expenses. The discounted values of future financial lease payments have been added to the farm balance sheet to reflect the farmer's committed liability as well as the eventual value of the asset.

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SUMMARY OF THE FARM BUSINESS

Business Characteristics

The combination of resources and management techniques used to put resources to work is an important part of planning. The tables below show important farm business characteristics, the number of farms reporting these characteristics, and the average level of resources used in production.

MANAGEMENT SYSTEMS, PRODUCTION TECHNOLOGY AND FARM SIZE 80 Central New York Dairy Farms, 1982

Type of Business	Number	Business Records Number	Dairy Records Number	er
Proprietorship	55	CAMIS 16	D.H.I.C. 61	
Partnership	20	Account Book 27	Owner Sampler 4	
Corporation	5	Agrifax 14	Other 7	
		Farm Bureau 3	None 8	
Owner	72	Agway 13		
Renter	8	On-Farm Computer 1		
		Other 6		
Barn Type	Number	Milking System Number	Numbe	er
Stanchion	45	Bucket & Carry 0	Herringbone 37	
Freestall	35	Dumping Station 8	Other Parlor 0	
Other	0	Pipeline 35		
Labor Force	My Fa	rm Average Land Use	My Farm Avera	ge
Operator 1.		mo. 12 Total acres of	wned 378	
2.		mo. 4 Total acres 1	ented 192	
3.		mo. <l td="" tillabl<="" total=""><td></td><td></td></l>		
Family paid		mo. 4 Tillable acre	s rented 165	
Family unpaid				
Hired		mo. 17 Number of Cov	rs My Farm Avera	ge
Total		mo. 40		
Age of operator(s) 1.	yrs. 44 Beginning of	year 110	
	2.	yrs. 37 End of year	118	
	3.	yrs. 37 Average for	rear 111	

Capital Investment-Farm Inventory represents the market value of resources committed to the farm business at the beginning and end of the year. Increases in inventory occur with herd expansion, new machinery, and building additions and appreciation of land, buildings and livestock.

CAPITAL INVESTMENT - FARM INVENTORY 80 Central New York Dairy Farms, 1982

	Му	My Farm		Average	
Item	1/1/82	1/1/83	1/1/82	1/1/83	
Livestock Feed & supplies Machinery & equipment Land & buildings	\$	\$	\$117,704 52,546 121,447 290,257	\$178,456 54,359 125,658 310,658	
TOTAL	\$ <u>.</u>	\$	\$641,954	\$669,131	

Inventory Accounting

The value of the dairy herd is influenced by market prices, herd quality and quantity. Here the changes in market value caused by inflationary or deflationary price changes, are separated from changes in inventory caused by changes in herd quality and quantity.

CHANGE IN LIVESTOCK INVENTORY 80 Central New York Dairy Farms, 1982

Item	My Farm	Average
End of year market value	\$	\$178,456
less end at beginning prices Change due to price	\$	<u>-189,631</u> \$-11,175
End inventory at beginning prices	\$	\$189,631
Change due to quality	-	<u>-177,704</u>
Change due to quality & quantity	\$	\$11,927

Machinery and real estate inventories, based on current market values, include a use depreciation charge and are balanced by the residual called appreciation.

MACHINERY AND EQUIPMENT INVENTORY 80 Central New York Dairy Farms, 1982

Item	My Farm	Average
End of year market value	(1)\$	\$125,658
Beginning market value	\$	\$121,447
Plus machinery purchased	+	+ 20,284
Less machinery sold		- 1,100
Less depreciation	_	- 19,893
Net end investment	(2)\$	\$120,738
APPRECIATION (1 minus 2)	\$	\$ 4,920

The change in real estate value is also affected by lost capital which is the amount of a new building investment that does not increase the value of the farm.

REAL ESTATE INVENTORY CALCULATIONS 80 Central New York Dairy Farms, 1982

Item	My Farm	Average
End of year market value	(1)\$	\$310,658
Beginning market value	\$	\$290,257
Cost of new real estate	\$	\$25,518
Less lost capital	-	- 3,990
Value of new added	+	+ 21,528
Less building depreciation		- 8,976
Less real estate sold	·	- 0
Net end investment	(2)\$	\$302,809
APPRECIATION (1 minus 2)	\$	\$ 7,849

Receipts

Receipts from the business should be large enough to cover all expenses and leave a reasonable return for the operator's labor and management. Cash receipts occur when farm products and livestock are sold or services are performed and payment is received during the year. Noncash receipts do not result from sales, but are due to appreciation in value or increases in physical quantities of inventories that occurred during the year. Most of these items could be readily transformed into cash.

FARM RECEIPTS
80 Central New York Dairy Farms, 1982

Item	My Farm	Per Farm	Per Cow
CASH RECEIPTS			
Milk sales	\$	\$220,834	\$1,989
Crop sales		7,162	64
Dairy cattle sold		15,959	144
Calves & other livestock sales		3,647	33
Gas tax refunds		221	2
Government payments		427	4
Custom machine work	- t	170	2
Other		2,820	25
Total Cash Receipts	\$	\$251,240	\$2,263
NONCASH RECEIPTS	•		
Increase in livestock inventory	•	11,927	108
Increase in feed & supplies		1,813	16
TOTAL FARM RECEIPTS			And Constitution of the Co
EXCLUDING APPRECIATION	\$	\$264,980	\$2,387
Livestock appreciation ²		- 11,175	- 101
Machinery appreciation ³	.1	4,920	45
Real estate appreciation ³		7,849	71
TOTAL FARM RECEIPTS	\$	\$266,574	\$2,402

¹The increase in herd market value attributed to a change in numbers and/or a definite change in herd quality.

Income Analysis provides a means of examining the annual receipt producing capability of the farm business.

INCOME ANALYSIS
Central New York Dairy Farms, 1982 & 1981

Item	My Farm	80 Farms 1982	70 Farms 1981
Average price/cwt. milk sold	\$	\$13.35	\$13.36
Milk and cattle sales per cow		\$2,166	\$2,133
Total cash receipts/worker		\$75,447	\$75,600

 $^{^2}$ The increase in herd market value, caused by inflationary price increase. 3 Defined on page 3.

Expenses

All farm expenses, cash operating and overhead, are summarized below.

FARM EXPENSES 80 Central New York Dairy Farms, 1982

Item	My Farm	Per Farm	Per Cow
Hired Labor	\$	\$ 23,031	\$ 207
Feed			
Dairy concentrate		48,698	439
Hay and other		2,638	24
Machinery			
Machine hire, rent and lease		1,993	18
Machinery repairs		12,306	111
Auto expense (farm share)		518	5.
Gas and oil		9,922	89
Livestock			
Replacement livestock		3,468	31
Breeding fees		2,990	27
Veterinary and medicine		5,203	47
Milk marketing		4,992	45
Cattle lease		150	1
Other livestock expense		9,275	84
Crops			
Fertilizer & lime		13,848	125
Seeds and plants		4,907	44
Spray, other crop expense		3,362	30
Real Estate			
Land, building, fence repair		3,294	30
Taxes		6,013	54
Insurance	The state of the s	3,772	34
Rent and lease		5,949	54
Other		770	7
Telephone (farm share)		773	7
Electricity (farm share)		5,131	46
Interest paid		26,385	238
Miscellaneous		2,900	26
Total Cash Expenses	\$	\$201,518	\$1,816
Expansion livestock		4,922	44
Machinery depreciation		19,893	179
Building depreciation		8,976	81
Unpaid family labor @ \$500/month	1	1,491	13
TOTAL FARM EXPENSES EXCLUDING	3		
INTEREST ON EQUITY CAPITAL	\$	\$236,800	\$2,133
Interest on equity capital @ 5%		21,203	191
TOTAL FARM EXPENSES	\$	\$258,003	\$2,324

Farm Business Profitability

The results of management are reflected in the net return from the business. Four common ways to measure the returns from a farm business are calculated.

Net cash farm income reflects the cash available from the year's operation of the business. Family living has first claim on cash income followed by fixed payments on debts. A family may have additional cash available if they have nonfarm income. Cash flow is not a good measure of farm business profits, but it is useful when planning debt repayment programs. Guidelines for annual cash flow planning are presented on page 9. Monthly cash flow planning is also recommended and may be required in order to identify cash flow problems in the year ahead. This is particularly true when major changes in the business are planned or when the price of important factors such as milk or purchased grain are expected to change significantly.

NET CASH FARM INCOME Central New York Dairy Farms, 1982 & 1981

Item	My Farm	80 Farms 1982	70 Farms 1981
Cash Farm Receipts	\$	\$251,240	\$239,652
Cash Farm Expenses		201,518	187,010
NET CASH FARM INCOME	\$	\$ 49,722	\$ 52,642

Labor and management income is the return to the operator for his or her labor and management input into the business. A five percent charge for the use of the operator's equity capital in the business has been included as a farm expense. This interest charge reflects the long term average rate of return that a farmer might expect to earn in investments with comparable risk to farm businesses in an economy with little or no inflation. Labor and management income is the measure used most commonly when comparing farm businesses. Appreciation in livestock, machinery and real estate inventories is included as ownership income, not return to operator labor and management.

LABOR AND MANAGEMENT INCOME
Central New York Dairy Farms, 1982 & 1981

		80 Farms	70 Farms
Item	My Farm	1982	1981
Total farm receipts excluding appreciation	\$	\$264,980	\$243,425
Total farm expenses	A	258,003	245,036
LABOR & MANAGEMENT INCOME	\$	\$ 6,977	\$ -1 ,611
Full-time operator-manager equivalents	s	1.40	1.35
LABOR & MANAGEMENT INCOME PER OPERATOR-MANAGER	\$	\$ 4,984	\$ -1,193

Labor, management and ownership income per operator reflects the combined return to the farmer for his or her triple role of worker-manager, financier and owner. Again, this is not a measure of the cash flow situation of the farm business. A satisfactory labor, management and ownership income does not eliminate cash flow problems if liabilities are large and repayment is rapid.

LABOR, MANAGEMENT AND OWNERSHIP INCOME Central New York Dairy Farms, 1982 & 1981

Item	My Farm	80 Farms 1982	70 Farms 1981
Total farm receipts	\$	\$266,574	\$260,319
Total farm expenses excluding interest on equity capital		236,800	224,034
LABOR, MANAGEMENT AND OWNERSHIP INCOME PER FARM	\$	\$ 29,774	\$ 36,285
Full-time operator-manager equiv.		1.40	1.35
LABOR, MANAGEMENT AND OWNERSHIP INCOME PER OPERATOR-MANAGER	\$	\$ 21,267	\$ 26,878

Return on equity capital measures the net profit remaining for the farmer's owned or equity capital after earnings have been allocated to the owner-operator's labor and management. The earnings or amount of gross profit allocated to labor and management is the opportunity cost or value of operator's labor and management estimated by the cooperators. Return on equity capital is computed including and excluding appreciation.

RETURN ON EQUITY CAPITAL Central New York Dairy Farms, 1982 & 1981

Item	My Farm	80 Farms 1982	70 Farms 1981
Labor, management & ownership income per farm	\$	\$29,774	\$36,285
Less value of operator's labor & management		23,827	23,081
Return on equity capital	\$	\$ 5,937	\$13,204
RATE OF RETURN INCLUDING APPRECIATION	[% 1.4%	3.1%
RATE OF RETURN EXCLUDING APPRECIATION		% 1.0%	-0.9%

The rate of return on equity capital is computed as the amount returned divided by farm net worth or equity capital.

Farm Family Financial Situation

The financial situation is an important part of the farm business summary. It has a direct affect on current cash outflow and future capital investment decisions. 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. The present values are also listed as assets, representing the future value the item has to the business.

FARM FAMILY FINANCIAL SITUATION
80 Central New York Dairy Farms, January 1, 1983

Item	My Farm	Average
Assets		
Livestock	\$	\$178,552
(includes discounted lease pymts)	·	(96)
Feed and supplies		54,359
Machinery and equipment		125,887
(includes discounted lease pymts)		(229)
Land and buildings		312,964
(includes discounted lease pymts)	4-14-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	(2,306)
Co-op investments		5,601
Accounts receivable		20,344
Cash and checking accounts		1,948
Total Farm Assets	\$	\$699,655
Savings accounts	\$	\$ 1,854
Cash value life insurance	` <u> </u>	2,618
Stocks and bonds		1,273
Nonfarm real estate		5,263
Auto (personal share)		1,964
All Other		7,823
TOTAL FARM & NONFARM ASSETS	\$	\$720,450
Liabilities		
ong term	¢	\$151,579
Intermediate	¥	114,007
inancial lease		2,631
Short term		2,674
ther farm accounts		4,697
ffice of the second second		
Total Farm Liabilities	\$	\$275,588
Nonfarm Liabilities		1,160
TOTAL LIABILITIES	\$	\$276,748
ARM NET WORTH (EQUITY CAPITAL)	\$	\$424,067
AMILY NET WORTH	\$	\$443,702

Payment ability is the most important consideration in determining if and how proposed investments should be financed. The farm business must produce sufficient cash income to meet operating expenses, to cover family or personal living expenses, to make payments on debts and to cover cash purchases of capital items that occur during the year. Interest paid and income from off-farm work are added to net cash farm income because planned or budgeted debt payments will include interest as well as principal. Estimate family living expenses for your farm to calculate cash available for debt payment and capital purchases made in cash.

Some farms in the group have scheduled debt payments exceeding 50 percent of the milk receipts. Committing this much cash inflow to debt payments can create a serious cash flow problem.

FARM FAMILY FINANCIAL SITUATION 80 Central New York Dairy Farms, January 1, 1983

	My Farm	Average
Item		
Payment Ability	Ś	\$49,722
Net cash farm income	٩	26,385
Plus interest paid		909
Plus off-farm income		
CASH AVAILABLE FOR DEBT SERVICE AND LIVING	\$	\$77,016 24,329
Less family living expenses*		24,329
CASH AVAIL. FOR DEBT PAYMENT & CAPITAL PURCHASES	\$	\$52,687
Scheduled Annual Debt Payments		\$19,250
Long term	\$	32,946
Intermediate	<u></u>	1,990
Short term		1,191
Other farm accounts	<u> </u>	\$55,377
TOTAL FARM DEBT PAYMENTS	\$	377
Nonfarm debt payments TOTAL PAYMENTS PLANNED 1983	\$	\$55,754
Commitment & Measures of Debt Equity Position		*/(0
Farm debt pymts. planned/cow	\$	\$469
Farm debt pymts. as % milk sales		25%
Farm debt/asset ratio-long term		0.48
Farm debt/asset ratio-intermediate		0.31
& short term		\$2,335
Farm debt per cow	\$	62
Percent equity (total)		

^{*}Estimated as \$10,200 per family plus four percent of cash farm receipts.

ANALYSIS OF THE FARM BUSINESS

When analyzing a farm business, a manager must consider measures or factors that reflect the performance of specified parts of the farm business. To do this one must look at factors of size, rates of production, labor efficiency, capital efficiency and cost control. These measures and factors are detailed on the following pages.

Size of Business

Studies have shown that, in general, larger farms are more profitable than smaller farms. Larger businesses make possible more efficient use of overhead inputs such as labor and machinery and there are more units of production on which to earn a profit. Profitable farm businesses with good management have the ability and incentive to become larger. Large farms are not necessarily more profitable however, and size increases are only profitable with good management.

MEASURES OF SIZE OF BUSINESS Central New York Dairy Farms, 1982 & 1981

Item	My Farm	80 Farms 1982	70 Farms 1981
Number of cows	***	111	107
Number of heifers		92	82°
Pounds of milk sold		1,654,800	1,577,800
Worker equivalent		3.33	3.17
Potal work units		1,247	1,186
lotal tillable acres		362	344

In the table below, the 553 New York farms for 1981 are sorted by number of cows and the labor and management income is shown for each size group. In general, the large farms paid better, but, variability of income was significant.

COWS PER FARM AND LABOR AND MANAGEMENT INCOME 553 New York Dairy Farms, 1981

			,	-
Number of Cows	Ave. Number of Cows	Number of Farms	Percent of Farms	Labor & Mgmt. Income Per Operator
Under 40 40 to 54 55 to 69 70 to 84 85 to 99 100 to 114 115 to 129 130 to 149 150 to 179 180 to 199 200 & over	34 47 61 77 90 106 121 139 163 187 267	82 130 110 74 38 26 25 16 23 8 21	16 25 21 13 6 4 4 2 2	-\$ 4,300 - 6,077 - 1,204 - 5,284 - 3,648 - 5,677 - 15,635 - 11,780 - 4,577 3,497 11,178

Rates of Production

Crop yields and rates of animal production are factors that have a significant impact on farm incomes. Here is a description of crops grown and yields along with the pounds of milk sold per cow.

CROP YIELDS & MILK SOLD PER COW 80 Central New York Dairy Farms, 1982

	My F	arm	Avera	age of Far	ms Reporting
Crop	Acres	Yield	Farms	Acres	Yield/Acre
Dry hay			68	(comb	ined below)
Hay crop silage			64	(comb	ined below)
Total hay crops			78	150	2.9 tons D.M.
Corn silage			78	92	14.9 tons
Other forage			7	21	2.7 tons D.M.
Total forage crops			79	240	3.7 tons D.M
Grain corn			61	111	92.9 bushels
Oats			32	43	64.9 bushels
			10	34	44.7 bushels
Wheat			4	39	
Other crops			1.5	34	
Tillable pasture		-	18	47	
Idle tillable land					
Milk sold per cow				14,	908 pounds

Tons of dry matter per acre from all hay and silage is a good measure of the overall rate of forage production.

The importance of strong milk output per cow is shown in the table below.

MILK SOLD PER COW AND LABOR AND MANAGEMENT INCOME 553 New York Dairy Farms, 1981

Pounds of Milk	Number	Number	Labor & Mgmt.	Labor, Mgmt., & Owner-
Sold Per Cow	of Farms	of Cows	Income/Oper.	ship Income/Operator
Under 11,000 11,000 to 11,999 12,000 to 12,999 13,000 to 13,999 14,000 to 14,999 15,000 to 15,999 16,000 to 16,999 17,000 to 17,999 18,000 & over	50 30 48 96 117 109 52 28 23	50 67 76 78 83 89 82 78	-\$ 8,642 - 5,687 - 17,052 - 5,925 - 6,178 302 2,142 1,716 1,861	\$ 5,165 13,593 9,159 20,818 26,893 32,468 30,451 27,606 45,290

Labor Efficiency

Labor input is an important factor in farm production. Several measures of accomplishment per worker (labor efficiency) are shown below.

MEASURES OF LABOR EFFICIENCY Central New York Dairy Farms, 1982 & 1981

Item	My Farm	80 Farms 1982	70 Farms 1981
Worker equivalent		3.33	3.17
Cows per worker		33	34
Lbs. milk sold per worker		496,937	497,729
Work units per worker		374	374

Number of cows per worker is calculated by dividing the average number of cows by the worker equivalent which represents the total farm labor force. Pounds of milk sold per worker is an important measure of labor efficiency on the dairy farm. It measures the ability of the labor force to handle a large number of cows without sacrificing milk output per cow.

It is important to look at other measures of labor efficiency, such as work units per worker because all dairy farms do not have the same relationship between cows, heifers, and crops grown.

Labor efficiency depends on a number of things. Among these are the amount of mechanization, the field and building layout, the work methods, and the abilities of the workers. All of these are management items under the control of the operator.

Another factor which may influence the productivity of labor is the wage paid to employees. A productive employee will require a reasonable and competitive wage.

MILK SOLD PER WORKER AND LABOR AND MANAGEMENT INCOME 553 New York Dairy Farms, 1981

Pounds of Milk Sold Per Worker	No. of Farms	No. of Cows	Lbs. Milk Per Cow	Labor & Mgmt. Income Per Operator	Labor, Mgmt., & Ownership Income Per Operator
Under 250,000	68	44	11,609	-\$9,348	\$ 5,325
250,000 to 299,999	58	53	13,185	- 7,361	12,436
300,000 to 349,999	77	62	14,060	- 6,337	19,102
350,000 to 399,999	91	67	14,178	- 3,738	19,365
400,000 to 449,000	81	77	14,849	- 1,350	24,137
450,000 to 499,999	60	93	14,799	- 5,635	30,006
500,000 to 599,999	79	108	15,500	1,741	39,315
600,000 & over	39	158	15,461	- 3,751	54,391

Capital Efficiency

Capital is a key resource in dairy farm businesses and a manager must continually analyze its use in the business. The measures of capital efficiency shown in the following table include owned as well as borrowed capital. It is possible for the business to be undercapitalized, but investing too much capital per productive unit is a more common problem.

MEASURES OF CAPITAL EFFICIENCY Central New York Dairy Farms, 1982 & 1981

Item	My Farm	80 Farms 1982	70 Farms 1981
	Ċ	\$200,940	\$205,183
Farm capital per worker Farm capital per cow	\$	5,671	5,860
Machinery investment per cow	\$	1,065	1,074
Machinery per tillable acre	\$	347	347
Land & buildings per cow	\$	2,633	2,727
Land & buildings/tillable acre owned	\$	1,268	1,220
Capital turnover	у	rs. 2.5 yrs.	2.5 yrs.

Land and building investment per crop acre owned shows the relationship between investments in land and buildings. The farmer who owns little cropland but builds many farm buildings will have a relatively large land and building investment per crop acre owned. This could be an indication that capital use is out of balance.

Capital turnover is calculated by dividing the total farm capital (total year end farm inventory) by the total farm receipts for the year. The factor is called capital turnover because it measures the number of years of receipts needed to equal or "turnover" farm capital. A fast rate of turnover is more desirable than a slow rate because it means capital purchases can be paid off at a faster rate. This figure also depends upon the enterprise selection of the business.

CAPITAL TURNOVER AND LABOR AND MANAGEMENT INCOME 553 New York Dairy Farms, 1981

Capital Turnover	Number of Farms	Number of Cows	Capital Per Cow	Investment Per Worker	Labor & Mgmt. Income Per Operator
less than 1.5	9	111	\$3,369	\$104,662	\$ 22,725
1.5 to 1.99	87	114	4,565	151,288	8,817
2.0 to 2.49	183	82	5,406	167,094	-2,990
2.5 to 2.99	143	67	6,262	172,843	-6,860
3.0 to 3.49	73	69	7,014	190,300	-11,341
3.5 & over	58	52	7,344	182,757	-18,611

Cost Control

The control of costs is a big factor in the success of modern commercial dairy operations. Feed, machinery and labor costs are major items and should be examined in detail. It is important to check all cost items both large and small. Expenses should be incurred only when the returns from the expense are expected to be greater than the cost incurred.

Feed Costs

Purchased feed is the largest single expenditure on most dairy farms. Two considerations are important in keeping the feed bill down: (1) Be careful that only nutrients required by the cow are being fed. A dairy farmer cannot afford to buy a feed mix that overfeeds energy or protein. (2) Be certain that the required nutrients are being obtained from their least expensive source. For example, is the lowest cost source of protein, urea, soybean meal or a commercial protein? Help in answering these questions can come from budgeting, from agribusiness people selling feeds, and from dairy and management extension agents. Extension is supporting computerized decision aids to assist in answering these questions including the NEWPLAN program, Least-Cost Balanced Dairy Rations, and the dairy ration analyzers.

The size and productivity of the cropping program has an important influence on the amount of the purchased feed bill. Increased production of either roughages or grains should reduce the purchased feed expense unless cow numbers are increased. Also, heifer raising practices affect feed costs. The overall feed situation must be examined and evaluated as a "system".

FEED COSTS AND RELATED MEASURES Central New York Dairy Farms, 1982 & 1981

Item	My Farm	80 Farms 1982	70 Farms 1981
Dairy concentrate purchased per cow	\$	\$439	\$476
Dairy concentrate purchased per cwt. of milk sold	\$	\$2.94	\$3.23
Percent dairy concentrate is of milk receipts	,	% 22%	24%
Crop expense per cow	\$	\$199	\$203
Feed & crop expense/cwt. milk	\$	\$4.44	\$4.61
Forage dry matter harv./cow (tons)	:	8.0	8.1
Acres of forage per cow		2.2	2.1
Total tillable acres per cow		3.3	3.2
Fertilizer and lime/tillable acre	\$	\$38	\$35
Heifers as % of cow numbers	%	83%	77%

Machinery, Labor and Miscellaneous Costs

Labor and machinery operate as a team on a dairy farm. The challenge is to obtain an efficient combination of these two inputs that will result in a low cost per unit of output.

MACHINERY AND LABOR COSTS Central New York Dairy Farms, 1982 & 1981

Item		My Farm	80 Farms 1982	70 Farms 1981
1.Com				
Machinery:	Depreciation ¹	\$	\$19,893	\$18,369
	Interest ²		6,178	5,598
	Operating expense 3		24,739	24,167
Total ma	•	\$	\$50,810	\$48,134
TO CAL ME	Per cow		\$458	\$450
Labor: Va	alue of operators 4	Ś	\$12,150	\$12,086
	npaid family ⁵	*	1,491	1,350
	ired		23,031	20,287
Total la		· Š	\$36,672	\$33,723
	er cow	T	\$330	\$315
	er cwt. milk		\$2.22	\$2.14
			\$788	\$765
	achinery costs per cow achinery costs/cwt. milk	\$	\$5.29	\$5.19

 $^{^{1}\}mathrm{Regular}$ depreciation from last year's tax plus 10 percent of new purchases.

MISCELLANEOUS COST CONTROL MEASURES Central New York Dairy Farms, 1982 & 1981

Item	My Farm	80 Farms 1982	70 Farms 1981
Livesteek evpense per cow	Ś	\$204	\$177
Livestock expense per cow Real estate expense per cow	\$	\$171	\$163
Total farm expense per cow	\$	\$2,324	\$2,447

Livestock expense per cow includes breeding fees, veterinary and medicine, milk marketing, dairy supplies, bedding and DHIC fees. Real estate expenses include repairs, taxes, insurance and rent.

²Five percent of average machinery investment.

^{3&}lt;sub>Machine hire, repairs, farm share auto expense, and gas and oil.</sub>

^{4\$750} per month.

⁵s500 per month.

YEARLY CASH FLOW PLANNING & ANALYSIS

This worksheet is a valuable tool in financial planning, expansions and for setting goals for improving the farm business. The average is from 80 Central New York farms.

T+	Average	My	Cows	
Item	Per Cow	Per	Cow Total	Goal
CASH RECEIPTS				
Milk sales	\$1,989	\$	\$	ė
Crop sales	64	Υ	⁹	_ ^ə
Dairy cattle	144			
Calves & other livestock	33			<u> </u>
Other .	33		 	 -
Total Cash Receipts	\$2,263	s	<u> </u>	
CASH EXPENSES	, , _ , _ ,	Y	^ү	- ⁹
Hired labor	\$ 207	٨		
Dairy concentrate	439	\$	\$	_ \$
Hay and other	439 24			·
Machine hire	24 18			
Machine repair & auto expense				
Gas & oil	116			
Replacement livestock	89			
Breeding fees	31			· "
Vet & medicine	27			_
Milk marketing (ADA, Dues)	47			
Other livestock exp. (incl. \$1 leas	45		· ·	
Fertilizer & lime			· · · · · · · · · · · · · · · · · · ·	
Seeds & plants	125	-		
Spray & other	44			
Land, bldg. fence repair	30			
Taxes	30			
Insurance	54			
Rent	34			
	54			· ·
Telephone & elec. (farm share)	53			· · · · · · · · · · · · · · · · · · ·
Miscellaneous	26			
Total Cash Expenses 1	\$1,578	\$	\$	Ś
otal Cash Receipts	\$2,263			'
otal Cash Expenses ¹	-1,578	_		
Net Cash Flow	s 685	ċ		
•		٧	⁹	\$
ash Family Living Expense ² mount Left for Debt Service, Capital Investment &	<u>- 219</u>			_
Retained Earnings	\$ 466	Ś	Ś	ė
cheduled Debt Service	- 469	<u>-</u>	<u>-</u>	٧
vailable for Capital Investment	\$ (3)	Ś	- ¢	ė
Planned Expansion Livestock Purch.	(Υ	^y	P
Planned Equipment Purchase				
rrowed or Equity Funds Needed		Ś	- e	¢
		¥	= '=====	?

¹Interest paid excluded for it is contained in Scheduled Debt Service.

²Estimated: \$10,200 per family and four percent of cash farm receipts.

PROGRESS OF THE FARM BUSINESS

Comparing your business with that of other farmers is one part of a business checkup. It is equally important to compare your current year's business with that of earlier years to show the progress you are making, and to plan ahead, by setting business targets or goals.

Item	1980	1981	1982	1983 Goal
Size of Business				·
Number of cows		, , , , , , , , , , , , , , , , , , , 		
Number of heifers		 .		
Pounds of milk sold				
Worker equivalent				
Total tillable acres		. <u> </u>	· · · · · · · · · · · · · · · · · · ·	
Rates of Production				
Lbs. milk sold per cow				
Tons hay D.M. per acre			<u> </u>	
Tons corn silage per acre				
Labor Efficiency				
Cows per worker				
Lbs. milk sold per worker				
Cost Control				
Purch. feed as % milk sold	\$	\$	\$	\$
Feed & crop exp./cwt. milk	\$	\$	<u> </u>	\$
Labor & mach. cost per cow	\$	\$	\$	\$
Capital Efficiency				
Farm capital per cow	\$	\$	\$	<u> </u>
Capital turnover	\$	\$	<u> </u>	\$
Price	:			
Price per cwt. milk	\$	\$	\$	\$
Financial Summary				
Net cash farm income	\$	\$	\$	\$
Labor & mgmt. inc./oper.	\$	\$	\$	\$
Farm net worth	\$	_ \$	\$	\$
Rate of return on equity		% <u></u>	_%	%
Percent equity		%	%	%
Farm debt per cow	\$	\$\$	\$	\$

MANAGEMENT PERFORMANCE OF STATEWIDE COOPERATORS

The Farm Business Chart is a tool which can be used in analyzing a business by drawing a line through the figure in each column which represents the current level of management performance. The figure at the top of each column is the average of the top 10 percent of the 553 farms for that factor. The other figures in each column are the average for the second 10 percent, third 10 percent, etc. Each column of the chart is independent of the others. The farms which are in the top 10 percent for one factor would not necessarily be the same farms which make up the top 10 percent for any other factor.

FARM BUSINESS CHART FOR FARM MANAGEMENT COOPERATORS
553 New York Dairy Farms, 1981

Size of Business		Rates of Production			Labor Efficiency		
Worker	No.	Pounds	Pounds	Tons	Tons Corn	Cows	Pounds
Equiv-	of	Milk	Milk Sold	D.M./	Silage	Per	Milk Sold
alent	Cows	Sold	Per Cow	Acre	Per Acre	Worker	Per Worker
5.8	204	3,081,100	18,100	4.6	21	45	662,000
3.9	121	1,795,500	16,400	3.6	19	36	538,000
3.3	91	1,364,500	15,700	3.1	17	33	482,000
3.0	77	1,111,800	15,200	2.8	16	30	442,000
2.6	67	960,800	14,600	2.6	15	28	408,000
2.3 2.0 1.9 1.6 1.3	58 52 47 40 32	850,000 747,000 641,000 530,000 381,000	14,200 13,700 13,100 12,100 9,800	2.3 2.1 1.9 1.7	15 13 12 11 7	26 24 22 20 16	377,000 346,000 310,000 267,000 194,000

Feed Bought Per Cow	% Feed is of Milk Receipts	Machinery Cost Per Cow	Labor & Machinery Cost Per Cow	Feed and Crop Expense Per Cwt. Milk
\$197	11%	\$251	\$ 520	\$2.66
313	17	334	632	3.54
387	20	373	688	3.94
440	23	408	739	4.24
485	25	437	775	4.50
533	28	469	815	4.79
583	30	51 3	859	5.06
635	33	552	924	5.35
699	35	611	1,002	5.75
834	40	762	1,199	6.59

The cost control factors are ranked from low to high, but the <u>lowest</u> cost is not necessarily the most profitable. In some cases, the "best" management position is somewhere near the middle or average. Many things affect the level of costs, and must be taken into account when analyzing the factors.

FINANCIAL ANALYSIS CHART 553 New York Dairy Farms, 1981

		Liqu	idity (Repayment)		
	Payments r Cow	Available For Debt Service Per Cow	Cash Flow Coverage Ratio ¹	Debt Payments as Percent of Milk Sales ²	Debt Per Cow
\$	36	\$859	11.81	02	\$ 109
Y	191	680	2.56	10	736
	279	594	1.60	14	1,167
	352	526	1.21	19	1,572
	416	458	.98	23	1,989
	447	388	. 82	26	2,344
	542	327	.66	30	2,724
	627	273	• 53	35	3,190
	757	185	.36	42	3,763
1	.,039	- 34	10	59	4,876

Solvency				Profitability		
		Debt/Asset Ra	atio	Percentage Rate of Return		
Leverage Ratio	Percent Equity	Current & Intermediate ⁴	Long Term ⁵	Equity ⁶	Investment 7	
.02	98	.00	.00	35	22	
.14	88	.04	.07	21	16	
.26	79	.09 .	.18	17	14	
.38	72	.16	.33	14	12.	
. 54	65	.22	.43	12	11	
.70	59	.29	. 51	09	09	
.87	53	.35	.60	07	08	
1.10	47	.43	.70	04	06	
1.57	39	•53	.83	01	04	
3.67	24	•78	1.15	-14	-03	

¹Amount available for debt service per dollar of annual scheduled debt payment, computed by dividing the available dollars by the annual payments planned. A high positive ratio indicates a strong capacity to repay debt.

 $^{^2}$ Amount of milk income committed to debt repayment, calculated by dividing scheduled debt payments by total milk sales (\$).

³Dollars of debt per dollar of equity, computed by dividing total liabilities by total equity.

 $^{^4\}mathrm{All}$ farm liabilities on less than 10 year repayment divided by all farm assets excluding real estate and other long term assets.

⁵Farm liabilities on 10 years or more repayment, including all real estate mortgages, divided by the value of farm real estate and other long term assets.

⁶Return on equity capital, including appreciation, divided by farm net worth.

 $⁷_{\rm Return}$ on all farm capital (no deduction for interest paid) divided by total farm assets.

FARM BUSINESS SUMMARY BY HERD SIZE 553 New York Dairy Farms, 1981

		Farms	with:	
T.,	Less than	40 to	55 to	70 to
Item	40 cows	54 cows	69 cows	84 cows
Capital Investment (end of year)				
Livestock	\$ 52,371	\$ 75,220	\$ 95,724	\$118,244
Feed & supplies	9,261	16,472	24,160	32,895
Machinery & equipment	42,623	59,911	76,336	90,171
Land & buildings	114,121	151,096	170,733	226,394
TOTAL INVESTMENT	\$218,376	\$302,799	\$366,953	\$467,704
Receipts	, ,	, ,	γο ου , 555	Ç407,704
Milk sales	\$ 62,378	\$ 88,345	\$121,644	\$151,338
Dairy cattle sold	4,310	6,317	7,904	10,766
Other livestock sales	1,413	1,735	1,970	1,958
Crop sales	340	738	1,105	1,451
Miscellaneous receipts	791	1,312	2,248	2,041
Total Cash Receipts	\$ 69,232	\$ 98,447	\$134,871	\$167,554
Increase in livestock	2,226	2,540	4,226	4,527
Increase in feed & supplies	(35)	155	1,079	33
Appreciation	1,240	-5,927	7,093	7,477
TOTAL FARM RECEIPTS	\$ 72,663	\$107,069	\$147,309	\$179,591
TOTAL FARM REC. EXCL. APPREC.	\$ 71,423	\$101,142	\$140,216	\$172,114
Expenses	, ,	Q1.01,1.72	Ģ140,210	9112,114
Hired labor	\$ 2,262	\$ 4,242	\$ 7,009	\$ 11,709
Dairy feed	18,560	24,419	30,201	37,227
Other feed	742	647	774	
Machine hire	468	827	1,359	1,009
Machinery repair	2,459	4,013	5,913	1,310
Auto expense (farm share)	442	355	5, 913 478	8,180
Gas & oil	2,660	4,045	5,453	432
Replacement animals	1,397	1,793		6,706
Breeding fees	918	1,108	2,859	1,722
Veterinary & medicine	1,194	1,797	1,740	1,919
Milk marketing	1,753	2,628	2,421	2,821
Other livestock expense	2,167	3,242	3,329	4,858
Fertilizer & lime	2,273	3,916	4,780	5,356
Seeds & plants	721	1,330	6,286	8,475
Spray & other crop expense	550	1,000	2,023	2,449
Land, bldg., fence repair	964	1,425	1,607	2,079
Taxes & insurance	3,005	4,165	1,996	2,576
Electricity & phone (farm share)	2,171	2,367	4,847	7,004
Interest paid	6,728	9,740	2,946	3,874
Miscellaneous expenses	1,465	3,096	12,460	15,991
Total Cash Expenses	\$ 52,899	Winner of the column 1 and 1 a	3,728	4,920
Expansion livestock	891	\$ 76,160 713	\$102,209	\$130,617
Machinery depreciation			1,723	1,234
Building depreciation	5,965	8,147	10,268	12,494
Unpaid family labor	1,534	2,861	4,048	5,375
Interest on equity @ 9%	1,610	2,115	2,073	1,264
TOTAL FARM EXPENSES	$\frac{13,125}{6,76,024}$	18,195	21,364	27,841
Financial Summary	\$ 76,024	\$108,191	\$141,685	\$178,825
NET CASH FARM INCOME	ė 16 222	A 00 00**	4 00	
LABOR & MGT. INCOME/OPER.	\$ 16,333	\$ 22,287	\$ 32,662	\$ 36,937
LABOR, MGT. & OWNSHP. INC./OPER.	\$ -4,300	\$ -6,077	\$ -1,204	\$ -5,284
THE THE PARTY OF T	\$ 9,125	s 14,718	\$ 22,121	\$ 22,525

FARM BUSINESS SUMMARY BY HERD SIZE 553 New York Dairy Farms, 1981

Remain R				D	-1	
Timestment (end of year) 14 cows 129 cows 149 cows more cows			***			150 or
Capital Investment (end of year) Side, 783 Side, 777 Side, 785 Side, 787 Side, 787 Side, 787 Side, 787 Side, 787 Side, 788 Side, 787 Side,						
Tivestock	Item	99 cows	114 cows	129 cows	149 COWS	MOLE COMP
Tivestock	Capital Investment (end of Ve	ear)				
Feed & Supplies 38,786	the state of the s	s146,783	\$165,777	\$170,424	\$215,066	
Machinery & equipment 105, 131 112, 620 121, 925 150, 640 183, 404 Land & buildings 257,713 269,882 302,713 341,352 504,471 TOTAL INVESTMENT 5588,413 5590,250 6550,725 5773,565 \$1,099,449 Receipts Milk sales \$182,249 \$217,517 \$232,247 \$284,274 \$426,469 Dairy cattle sold 14,671 14,782 14,947 18,841 31,336 Other livestock sales 3,944 5,842 4,900 3,864 6,455 Crop sales 2,858 3,640 3,612 3,319 5,938 Miscellaneous receipts 3,252 2,897 5,757 4,253 6,259 Total Cash Receipts 3,455 3,600 7,395 (4,378) 20,746 Increase in feed & supplies 2,936 (2,978) (1,166) (450) 11,319 Appreciation 11,775 8,938 13,937 222,33 22,536 2254,238 231,629 3337,087 50		, -		55,663	66,107	
Lamd & buildings					150,640	183,404
TOTAL INVESTMENT Receipts Milk sales S182,249 Dairy cattle sold Other livestock sales Crop sales S206,984 Total Cash Receipts	- · · · · · · · · · · · · · · · · · · ·	-	-	•	341,352	504,471
Receipts Milk sales \$182,249 \$217,517 \$232,247 \$284,274 \$426,469 Dairy cattle sold 14,671 14,782 14,947 18,841 31,336 Other livestock sales 3,944 5,842 4,900 3,864 6,455 Crop sales 3,266,984 3,467 \$251,757 4,253 6,259 Total Cash Receipts 3,062 2,887 \$575 4,253 6,259 Increase in feed & supplies 3,455 3,600 7,395 (4,378) 20,746 Increase in feed & supplies 2,936 (2,978) (1,166) (450) 11,319 Appreciation 11,775 8,938 13,337 22,536 20,869 TOTAL FARN RECE. EXGL. APPREC. \$213,375 \$245,300 \$267,692 \$337,087 \$508,522 Expenses Hired Labor \$15,450 \$18,923 \$29,576 \$34,543 \$53,791 Dating feed 1,524 1,690 1,649 1,710 4,031 Wachinery repair 9,950 9	-					\$1,099,449
Milk sales 182, 249 217, 517 2232, 247 288, 274 342, 495 34, 313 360 361 364 6, 455 365 366 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364 364		φ υ-τυς π. υ	φ 590 , 2 50	400 t y		
Dairy cattle sold other livestock sales 3,944 5,842 4,900 3,864 6,455 Crop sales 2,858 3,640 3,612 3,319 5,938 Miscellaneous receipts 3206,938 524,678 \$261,463 \$314,551 \$476,457 10crease in livestock 3,455 3,600 7,395 (4,378) 20,746 Increase in feed & supplies Appreciation 11,775 8,938 13,937 22,536 22,897 TOTAL CARPRECEPTS \$225,150 \$254,238 \$231,629 \$337,087 \$225,391 TOT. FARM REC. EXCL. APPREC. \$213,375 \$245,300 \$267,692 \$337,087 \$508,522 \$289enses Hired Labor \$15,450 \$18,923 \$29,576 \$34,543 \$53,791 \$245,300 \$267,692 \$337,087 \$508,522 \$289enses Hired Labor \$15,450 \$18,923 \$29,576 \$34,543 \$53,791 \$245,300 \$46,227 \$70,12 \$60,101 \$74,456 \$105,499 \$60,401 \$74,456 \$105,499 \$60,401 \$74,456 \$105,499 \$60,401 \$74,456 \$105,499 \$60,401 \$74,456 \$105,499 \$60,401 \$74,456 \$105,499 \$60,401 \$74,456 \$105,499 \$60,401 \$74,456 \$105,499 \$60,401 \$74,456 \$105,499 \$60,401 \$74,456 \$105,499 \$60,401 \$74,456 \$105,499 \$60,401 \$74,456 \$105,499 \$60,401 \$74,456 \$105,499 \$60,401 \$74,456 \$105,499 \$60,401 \$74,456 \$105,499 \$60,401 \$74,456 \$105,499 \$60,401 \$74,456 \$105,499 \$60,401 \$74,456 \$105,499 \$60,401 \$74,456 \$105,499 \$60,401 \$74,456 \$105,499 \$60,401 \$74,456 \$105,499 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,400 \$70,		\$1.82 - 249	s217.517	\$232,247	\$284,274	\$426,469
Other livestock sales 3,944 5,842 4,900 3,864 6,455 Crop sales 2,838 3,640 3,612 3,319 5,938 Miscellaneous receipts 3,262 2,897 5,757 4,253 6,259 Total Cash Receipts 3,455 3,600 7,395 (4,378) 20,746 Increase in Itvestock 3,455 3,600 7,395 (4,378) 20,746 Increase in feed & supplies 2,936 (2,978) (1,166) (450) 11,319 Appreciation 11,775 8,938 13,937 22,536 20,869 Appreciation 11,775 8,938 13,937 22,536 20,869 Appreciation 11,157 8,938 13,937 22,536 20,869 TOT. FARM RECEIPTS \$225,150 \$252,462,300 \$281,629 \$332,259 \$529,391 Expenses Hired labor \$15,450 \$18,923 \$29,576 \$34,543 \$53,791 Other feed \$1,155 2,820 \$2,410				•		31,336
Street Trivestock sales 2,858 3,640 3,612 3,319 5,938	·		-	•		
Miscellaneous receipts 3,262 2,897 5,757 4,253 6,259 Total Cash Receipts \$206,984 \$244,678 \$216,463 \$314,551 \$476,457 Increase in livestock 3,455 3,600 7,395 (4,378) 20,746 Increase in feed & supplies 2,936 (2,978) (1,166) (450) 11,319 Appreciation 11,775 8,938 13,937 22,536 22,9869 TOTAL FARM RECEIPTS \$225,150 \$254,300 \$267,692 \$337,087 \$508,592 Expenses Hired labor \$15,450 \$18,923 \$29,576 \$34,543 \$53,791 Dairy feed 46,227 57,012 60,101 74,456 105,499 Other feed 1,155 2,820 2,410 1,207 3,079 Machine hire 1,324 1,690 1,649 1,710 44,031 Auto expense (farm share) 715 371 472 339 482 Gas & of1 9,187 10,169 12,324						
Total Cash Receipts Increase in livestock Increase in livestock Increase in feed & supplies Appreciation TOTAL FARM RECEIPTS \$225,150 TOTAL FARM RECEIPTS \$225,150 TOTAL FARM RECE EXCL. APPREC. \$213,375 TOT. FARM RECE EXCL. APPREC. \$213,375 Expenses Hired labor Dairy feed 46,227 Dairy feed 46,227 Totaline feed 1,155 Cas & oil Machiner freed 1,155 Cas & oil Machinery repair Auto expense (farm share) Gas & oil Replacement animals Reclaine (farm share) Veterinary & medicine Totaline (farm share) Totaline fees Firetilizer & lime Totaline (farm share) Land, bldg., fence repair Taxes & insurance Elec. & phone (farm share) Totaline feer equiry Totaline farm farm (farm share) Totaline farm share) Unpaid family labor Interest on equity @ 9% TOTAL FARM RECEIPTS \$296, 692 \$244, 238 \$225, 300 \$226, 692 \$246, 693 \$227, 692 \$237, 087 \$237, 087 \$245, 238 \$228, 629 \$225, 391 \$225, 391 \$226, 692 \$227, 500 \$226, 692 \$237, 087 \$226, 692 \$237, 087 \$226, 692 \$237, 087 \$246, 427 \$27, 012 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27, 020 \$27		•	•			
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Taxes & insurance 8,248 8,630 10,222 9,794 15,986 Elec. & phone (farm share) 4,604 4,553 5,528 5,426 8,048 Interest paid 17,768 23,224 25,594 30,506 43,001 Miscellaneous expenses 5,553 9,472 6,595 5,178 14,860 Total Cash Expenses \$159,688 \$195,008 \$223,157 \$249,732 \$382,445 Expansion livestock 2,232 1,056 1,673 1,666 10,357 Machinery depreciation 14,583 15,239 17,254 19,083 31,290 Building depreciation 6,779 6,442 9,105 10,893 14,892 Unpaid family labor 1,934 962 660 313 760 Interest on equity @ 9% 33,521 34,788 34,761 44,763 65,653 TOTAL FARM EXPENSES \$218,737 \$253,475 \$286,610 \$326,450 \$505,397 Financial Summary NET CASH FARM INCOME \$47,296 \$49,670 \$38,306 \$64,819 \$94,012 LABOR & MGT. INCOME/OPER.						
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Interest on equity @ 9% TOTAL FARM EXPENSES Financial Summary NET CASH FARM INCOME LABOR & MGT. INCOME/OPER.						
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TAROR MCT. & OWNSHP. INC./UP.S 2/, 100 \$ 24,000 \$ 24,012 \$ 33,014 \$ 30,212	LABOR & MGT. INCOME/OPER.	op 4 07 166	A 11 600	ራ <u>ዓ</u> ሉ 61 9	ė 35 A1/	c 58 212
	LABOR, MGT. & OWNSHP. INC./	OP. \$ 27, 166	\$ 24,088	\$ 44,014	9 33,01°	عدے و ^{ال ک}

SELECTED BUSINESS FACTORS BY HERD SIZE 553 New York Dairy Farms, 1981

		Farms		
T to a com	Less than	40 to	55 to	70 to
Item	40 cows	54 cows	69 cows	84 cows
Number of farms	82	130	110	74
Size of Business			•	
Number of cows	34	47	61	77
Number of heifers	26	35	43	59
Pounds of milk sold	459,600	654,500	890,800	1,107,800
Worker equivalent	1.58	2.08	2.33	2.75
Total work units	375	528	669	858
Total tillable acres	121	177	206	264
(Tillable acres rented)	(31)	(46)	(66)	(86)
Rates of Production				
Milk sold per cow	13,518	13,926	14,603	14,387
Tons hay crop per acre	1.8	2.2	2.5	2.7
Tons corn silage per acre	13.2	13.6	14.3	14.1
Bushels of oats per acre	33.8	51.9	48.5	48.9
Labor Efficiency	3313	31.07	ر. ۳۵۰	40.7
	0.0			
Cows per worker	22	23	26	28
Pounds milk sold per worker	290,886	314,663	382,318	402,836
Work units per worker	237	254	287	312
Feed Costs				
Feed purchased per cow	\$546	\$520	\$495	\$483
Crop expense per cow	\$104	\$133	\$163	\$169
Feed cost per cwt. milk	\$4.04	\$3.73	\$3.39	\$3.36
Feed & crop exp. per cwt. milk	\$4.81	\$4.69	\$4.50	\$4.53
% feed is of milk receipts	30%	28%	25%	25
Hay equivalent per cow	6.7	7.9	7.7	8.0
Tillable acres per cow	3.6	3.8	3.4	3.4
Fertilizer & lime per crop acre	\$19	\$22	\$31	\$32
Machinery & Labor Costs				
Total machinery costs	\$15,686	\$22,504	\$29,974	\$36,870
Machinery cost per cow	\$461	\$479	\$491	\$479
Machinery cost per cwt. milk	\$3.41	\$3.44	\$3.36	\$3.33
Labor cost per cow	\$397	\$357	\$328	\$317
Labor cost per cwt. milk	\$2 . 94	\$2.56	\$2.25	\$2.20
Capital Efficiency				4
Investment per worker	\$138,213	\$145,576	\$157,491	¢1.70 074
Investment per cow	\$6,066	\$6,443	\$5,825	\$170,074
Investment per cwt. milk	\$48	\$46	\$41	\$5,920
Land & buildings per cow	\$3,170	\$3,084	\$2,710	\$42
Machinery investment per cow	\$1,254	\$1,223	\$1,212	\$2,866
Capital turnover	3.0	2.8	2.5	\$1,141 2.6
ther			# 4 7	~ * V
Price per cwt. milk sold	\$13.57	\$13.50	\$13.66	\$13.66
Acres hay crops	80	107	108	137
Acres corn silage	17	2.8	40	51

SELECTED BUSINESS FACTORS BY HERD SIZE 553 New York Dairy Farms, 1981

Number of farms 38				Farms wi		
Number of farms 38 26 25 16 Size of Business Number of cows 90 106 121 139 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105	T.6	85 to	100 to			150 or
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Number of cows Number of heifers 70 78 94 105 Pounds of milk sold 1,313,900 1,580,200 1,688,400 2,106,600 3,113, Worker equivalent 3.25 3.42 3.92 4.17 Total work units 1,013 1,150 1,358 1,524 2, Total tillable acres 309 312 384 440 (Tillable acres rented) (85) (125) (147) (146) (2 Rates of Production Milk sold per cow 14,599 14,908 13,954 15,155 14, Tons hay crop per acre 2.7 2.7 2.7 2.9 Tons corn silage per acre 15.3 15.0 14.9 16.1 1 Bushels of oats per acre 52.1 69.0 50.1 62.1 5 Labor Efficiency Cows per worker 28 31 31 33 Pounds milk sold per worker 404,277 462,047 430,714 505,180 557, Work units per worker 312 336 346 365 Feed Costs Feed purchased per cow \$514 \$538 \$497 \$536 \$570, Work units per worker \$190 \$179 \$183 \$203 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,000 \$700,	Number of farms	38	26	- 25	16	52
Number of heifers	Size of Business					
Pounds of milk sold 1,313,900 1,580,200 1,688,400 2,106,600 3,113, Worker equivalent 3.25 3.42 3.92 4.17 5 5 5 5 5 5 5 5 5	Number of cows	90	106	121	139	208
Worker equivalent 3.25 3.42 3.92 4.17 5 Total work units 1,013 1,150 1,358 1,524 2, Total tillable acres 309 312 384 440 (Tillable acres rented) (85) (125) (147) (146) (2 Rates of Production Milk sold per cow 14,599 14,908 13,954 15,155 14, Tons corn silage per acre 2.7 2.7 2.7 2.9 14,908 13,954 15,155 14, Tons corn silage per acre 52.1 69.0 50.1 16.1 1 1 1 16.1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Number of heifers	70	78	94	105	158
Total tillable acres 309 312 384 440 (Tillable acres rented) (85) (125) (147) (146) (28 309 312 384 440) (Tillable acres rented) (85) (125) (147) (146) (28 309 312 384 440) (Tillable acres rented) (85) (125) (147) (146) (28 314 31 31 31 31 31 31 31 31 31 31 31 31 31		1,313,900	1,580,200	1,688,400	2,106,600	3,113,000
Total tillable acres (309 312 384 440 (Tillable acres rented) (85) (125) (147) (146) (28 Rates of Production Milk sold per cow 14,599 14,908 13,954 15,155 14, Tons hay crop per acre 2.7 2.7 2.7 2.9 Tons corn silage per acre 15.3 15.0 14.9 16.1 18 Bushels of oats per acre 52.1 69.0 50.1 62.1 55 Labor Efficiency Cows per worker 28 31 31 33 33 Pounds milk sold per worker 404,277 462,047 430,714 505,180 557, Work units per worker 312 336 346 365 Feed Costs Feed Durchased per cow \$514 \$538 \$497 \$536 \$ Crop expense per cow \$190 \$179 \$183 \$203 \$\$ Feed cost per cwt. milk \$3.52 \$3.61 \$3.56 \$3.53 \$3 Feed & crop exp. per cwt. milk \$4.82 \$4.81 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87	~					
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Bushels of oats per acre 52.1 69.0 50.1 62.1 55 Labor Efficiency Cows per worker 28 31 31 33 33 Pounds milk sold per worker 404,277 462,047 430,714 505,180 557, Work units per worker 312 336 346 365 Feed Costs Feed Durchased per cow \$514 \$538 \$497 \$536 \$ Crop expense per cow \$190 \$179 \$183 \$203 \$ Feed cost per cwt. milk \$3.52 \$3.61 \$3.56 \$3.53 \$3 Feed & crop exp. per cwt. milk \$4.82 \$4.81 \$4.87 \$4.87 \$4 % feed is of milk receipts 25% 26% 26% 26% Tons forage dry matter per cow 8.4 7.5 8.3 7.9 Tillable acres per cw 3.4 2.9 3.2 3.2 Fertilizer & lime per crop acre \$36 \$38 \$35 \$34 Machinery & Labor Costs Total machinery costs \$44,644 \$46,714 \$55,791 \$62,594 \$91, Machinery cost per cow \$496 \$441 \$461 \$450 \$8 Machinery cost per cow \$340 \$310 \$340 \$343 \$8 Labor cost per cwt. milk \$2.33 \$2.08 \$2.44 \$2.26 \$2 Capital Efficiency Investment per worker \$168,742 \$172,588 \$166,001 \$185,507 \$197, Investment per cow \$5,961 \$5,366 \$5,164 \$5,298 \$5, Investment per cow \$2,801 \$2,453 \$2,402 \$2,341 \$2, Machinery investment per cow \$2,801 \$2,453 \$2,402 \$2,341 \$2, Machinery investment per cow \$1,143 \$1,024 \$968 \$1,032 \$8						
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Cows per worker 28 31 31 33 33 Pounds milk sold per worker 404,277 462,047 430,714 505,180 557, Work units per worker 312 336 346 365 Feed Costs Feed Purchased per cow \$514 \$538 \$497 \$536 \$ \$ Crop expense per cow \$190 \$179 \$183 \$203 \$ \$ Feed cost per cwt. milk \$3.52 \$3.61 \$3.56 \$3.53 \$3 Feed & crop exp. per cwt. milk \$4.82 \$4.81 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$4.87 \$5.64 \$5.56 \$3.53 \$3 Feed & sof milk receipts \$25% \$26% \$26% \$26% \$26% \$26% \$26% \$26% \$26	Bushels of oats per acre	52.1	69.0	50.1	62.1	58.7
Pounds milk sold per worker 404,277 462,047 430,714 505,180 557, Work units per worker 312 336 346 365 Feed Costs Feed purchased per cow \$514 \$538 \$497 \$536 \$ Crop expense per cow \$190 \$179 \$183 \$203 \$ Feed cost per cwt. milk \$3.52 \$3.61 \$3.56 \$3.53 \$3 Feed & crop exp. per cwt. milk \$4.82 \$4.81 \$4.87 \$4.87 \$4 % feed is of milk receipts 25% 26% 26% 26% 26% % feed is of milk receipts 25% 26% 26% 26% 26% % feed is of milk receipts 25% 26% 26% 26% 26% % feed is of milk receipts 25% 26% 26% 26% 26% % feed is of milk receipts 3.4 2.9 3.2 3.2 \$8 Fertilizer feed is of milk receipts \$4.4 7.5	Labor Efficiency					
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Feed Costs Feed purchased per cow \$514 \$538 \$497 \$536 \$\$ Crop expense per cow \$190 \$179 \$183 \$203 \$\$ Feed cost per cwt. milk \$3.52 \$3.61 \$3.56 \$3.53 \$3 Feed & crop exp. per cwt. milk \$4.82 \$4.81 \$4.87 \$4.87 \$4 % feed is of milk receipts 25% 26% 26% 26% Tons forage dry matter per cow 8.4 7.5 8.3 7.9 Tillable acres per cow 3.4 2.9 3.2 3.2 Fertilizer & lime per crop acre \$36 \$38 \$35 \$34 Machinery & Labor Costs Total machinery costs \$44,644 \$46,714 \$55,791 \$62,594 \$91, Machinery cost per cow \$496 \$441 \$461 \$450 \$\$ Machinery cost per cwt. milk \$3.40 \$2.96 \$3.30 \$2.97 \$2 Labor cost per cow \$340 \$310 \$340 \$343 \$\$ Labor cost per cwt. milk \$2.33 \$2.08 \$2.44 \$2.26 \$2 Capital Efficiency Investment per worker \$168,742 \$172,588 \$166,001 \$185,507 \$197, Investment per cow \$5,961 \$5,366 \$5,164 \$5,298 \$5, Investment per cwt. milk \$42 \$35 \$39 \$37 Land & buildings per cow \$2,801 \$2,453 \$2,402 \$2,341 \$2, Machinery investment per cow \$1,143 \$1,024 \$968 \$1,032 \$5	Pounds milk sold per worker	404,277	462,047	430,714	505,180	557,885
Feed purchased per cow \$190 \$179 \$183 \$203 \$ Crop expense per cow \$190 \$179 \$183 \$203 \$ Feed cost per cwt. milk \$3.52 \$3.61 \$3.56 \$3.53 \$3 Feed & crop exp. per cwt. milk \$4.82 \$4.81 \$4.87 \$4.87 \$4 % feed is of milk receipts 25% 26% 26% 26% Tons forage dry matter per cow 8.4 7.5 8.3 7.9 Tillable acres per cow 3.4 2.9 3.2 3.2 Fertilizer & lime per crop acre \$36 \$38 \$35 \$34 Machinery & Labor Costs Total machinery costs \$44,644 \$46,714 \$55,791 \$62,594 \$91, Machinery cost per cow \$496 \$441 \$461 \$450 \$\$ Machinery cost per cwt. milk \$3.40 \$2.96 \$3.30 \$2.97 \$2 Labor cost per cwt. milk \$2.33 \$2.08 \$2.44 \$2.26 \$2 Capital Efficiency Investment per worker \$168,742 \$172,588 \$166,001 \$185,507 \$197, Investment per cow \$5,961 \$5,366 \$5,164 \$5,298 \$5, Investment per cwt. milk \$42 \$35 \$39 \$37 Land & buildings per cow \$2,801 \$2,453 \$2,402 \$2,341 \$2, Machinery investment per cow \$1,143 \$1,024 \$968 \$1,032 \$5	Work units per worker	312	336	346	365	404
Crop expense per cow \$190 \$179 \$183 \$203 \$ Feed cost per cwt. milk \$3.52 \$3.61 \$3.56 \$3.53 \$3 Feed & crop exp. per cwt. milk \$4.82 \$4.81 \$4.87 \$4.87 \$4 % feed is of milk receipts 25% 26% 26% 26% Tons forage dry matter per cow 8.4 7.5 8.3 7.9 Tillable acres per cow 3.4 2.9 3.2 3.2 Fertilizer & lime per crop acre \$36 \$38 \$35 \$34 Machinery & Labor Costs Total machinery costs \$44,644 \$46,714 \$55,791 \$62,594 \$91, Machinery cost per cow \$496 \$441 \$461 \$450 \$\$ Machinery cost per cwt. milk \$3.40 \$2.96 \$3.30 \$2.97 \$2 Labor cost per cow \$340 \$310 \$340 \$343 \$\$ Labor cost per cwt. milk \$2.33 \$2.08 \$2.44 \$2.26 \$2 Capital Efficiency Investment per worker \$168,742 \$172,588 \$166,001 \$185,507 \$197, Investment per cow \$5,961 \$5,366 \$5,164 \$5,298 \$5, Investment per cwt. milk \$42 \$35 \$39 \$37 Land & buildings per cow \$2,801 \$2,453 \$2,402 \$2,341 \$2, Machinery investment per cow \$1,143 \$1,024 \$968 \$1,032 \$\$	Feed Costs					
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Feed & crop exp. per cwt. milk \$4.82 \$4.81 \$4.87 \$4.87 \$4.87 \$4 feed is of milk receipts 25% 26% 26% 26% 26% 26% Tons forage dry matter per cow 8.4 7.5 8.3 7.9 Tillable acres per cow 3.4 2.9 3.2 3.2 Fertilizer & lime per crop acre \$36 \$38 \$35 \$34 \$\$\$\$ Machinery & Labor Costs \$\$\$\$ tabor Costs \$\$\$\$ Total machinery costs \$44,644 \$46,714 \$55,791 \$62,594 \$91, Machinery cost per cow \$496 \$441 \$461 \$450 \$\$\$\$\$ Machinery cost per cwt. milk \$3.40 \$2.96 \$3.30 \$2.97 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2	Crop expense per cow		\$179	\$183	\$203	\$185
% feed is of milk receipts 25% 26% 26% 26% Tons forage dry matter per cow 8.4 7.5 8.3 7.9 Tillable acres per cow 3.4 2.9 3.2 3.2 Fertilizer & lime per crop acre \$36 \$38 \$35 \$34 Machinery & Labor Costs \$44,644 \$46,714 \$55,791 \$62,594 \$91, Machinery cost per cow \$496 \$441 \$461 \$450 \$ Machinery cost per cwt. milk \$3.40 \$2.96 \$3.30 \$2.97 \$2 Labor cost per cwt. milk \$2.33 \$2.08 \$2.44 \$2.26 \$2 Capital Efficiency Investment per worker \$168,742 \$172,588 \$166,001 \$185,507 \$197, Investment per cow \$5,961 \$5,366 \$5,164 \$5,298 \$5, Investment per cwt. milk \$42 \$35 \$39 \$37 Land & buildings per cow \$2,801 \$2,453 \$2,402 \$2,341 \$2, Machinery investment per cow \$1,143 \$1,024 \$968 \$1,032	Feed cost per cwt. milk	\$3.52	\$3.61	\$3. 56	\$3.53	
Tons forage dry matter per cow 8.4 7.5 8.3 7.9 Tillable acres per cow 3.4 2.9 3.2 3.2 Fertilizer & lime per crop acre \$36 \$38 \$35 \$34 Machinery & Labor Costs Total machinery costs \$44,644 \$46,714 \$55,791 \$62,594 \$91, Machinery cost per cow \$496 \$441 \$461 \$450 \$ Machinery cost per cwt. milk \$3.40 \$2.96 \$3.30 \$2.97 \$2 Labor cost per cow \$340 \$310 \$340 \$343 \$ Labor cost per cwt. milk \$2.33 \$2.08 \$2.44 \$2.26 \$2 Capital Efficiency Investment per worker \$168,742 \$172,588 \$166,001 \$185,507 \$197, Investment per cow \$5,961 \$5,366 \$5,164 \$5,298 \$5, Investment per cwt. milk \$42 \$35 \$39 \$37 Land & buildings per cow \$2,801 \$2,453 \$2,402 \$2,341 \$2, Machinery investment per cow \$1,143 \$1,024 \$968 \$1,032 \$3				\$4.87	\$4.87	
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	.					\$2,391 \$869
OGDING LULIUVCI ZOM ZOJ ZOJ ZOJ	Capital turnover	v 31,143 2.4			2.3	2.1
Other	"	24	2.43	24.5	243	~~1
		ė12 07	. 612 77	ė12 74	612 40	612 70
Price per cwt. milk sold \$13.87 \$13.77 \$13.76 \$13.49 \$13 Acres hay crops 157 153 173 195		,	•		•	\$13.70 248
						164

FARM FAMILY FINANCIAL SITUATION BY HERD SIZE 553 New York Dairy Farms, January 1, 1982

	Farms with:				
	Less than	40 to	55 to	70 to	85 to
Item	40 cows	54 cows	69 cows	84 cows	99 cows
Number of farms	82	130	110	74	38
Assets					
Livestock	\$ 52,371	\$ 75,220	\$ 95,724	\$118,244	\$146,783
Feed & supplies	9,261	16,572	24,160	32,895	38,786
Machinery & equipment	42,623	59,911	76,336	90,171	105,131
Land & buildings	114,121	151,096	170,733	226,394	257,713
Co-op investment	1,321	3,838	3,375	6,380	5,264
Accounts receivable	4,876	6,810	11,045	12,316	15,753
Cash & checking accounts	1,164	2,046	2,220	3,132	2,890
Total Farm Assets	\$225,737	\$315,493	\$383,593	\$489,532	\$572,320
Savings accounts	3,255		2,578	4,223	3,567
Cash value life insurance	1,894	2,306	2,464	2,326	2,243
Stocks & bonds	1,440	1,377	1,755	3,655	1,121
Nonfarm real state	2,177	2,444	8,011	3,670	5,592
Auto (personal share)	1,221	1,282	1,641	1,654	2,157
All other	6,178	5,068	4,604	5,745	7,290
Total Nonfarm Assets	مسخالي الكارك المتاخرة الترجينا المساهرين	\$ 14,851	\$ 21,053	\$ 21,273	\$ 21,970
TOTAL ASSETS	\$241,902		\$404,646	\$510,805	\$594,290
Liabilities					
Real estate mortgage	\$ 45,107	\$ 60,018	\$ 80,703	\$105,055	\$113,429
Liens on cattle & equipment	23,393	32,022	47,212	49,371	64,972
Installment contracts	2,432	3,779	5,395	8,459	4,979
Other loans over 10 years	2,518	10,297	2,425	4,160	2,605
Other loans 1 to 10 years	2,158	2,366	4,477	6,319	6,611
Other loans less than 1 year	1,680	1,423	2,228	1,464	2,074
Feed store & other accounts	2,614	3,423	3,776	5,358	5,190
Total Farm Liabilities	\$ 79,902	\$113,328	\$146,219	\$180,186	\$199,860
Total Nonfarm Liabilities	676	365	390	264	1,342
TOTAL LIABILITIES	\$ 80,578	\$113,693	\$146,219	\$180,450	\$201,202
Farm Net Worth (Eq. Cap.)	, -	\$202,165	\$237,374	\$309,346	\$372,460
FAMILY NET WORTH		\$216,651	\$258,037	\$330,355	\$393,088
Financial Measures					
Percent equity	67%	66%	64%	65%	66%
Farm debt per cow	\$2,220	\$2,313			\$2,172
Available for debt service	7 . 2		, , ,		, ,
& living	\$24,730	\$33,275	\$46,030	\$54,038	\$65,197
Scheduled annual debt paymen					
Scheduled debt payments/cow	\$434				, ,
Payment as % of milk check	25%	•		•	•
Debt/Asset ratio - long term		0.47			0.45
Debt/Asset ratio - intermedi		0.25	0.29	0.26	0.25
Cash flow coverage ratio	0.72	0.76	0.92	0.94	1.05

FARM FAMILY FINANCIAL SITUATION BY HERD SIZE 553 New York Dairy Farms, January 1, 1982

	Farms with:					
T. b	100 to	115 to	130 to	150 or		
Item	114 cows	129 cows	149 cows	more cows		
Number of farms	26	25	16	52		
Assets						
Livestock	\$165,777	\$170,424	\$215,066	\$ 312,810		
Feed & supplies	41,971	55,663	66,107	98,764		
Machinery & equipment	112,620	121,925	150,640	183,404		
Land & buildings	269,882	302,713	341,752	504,471		
Co-op investment	7,353	10,893	12,207	17,021		
Accounts receivable	19,073	19,110	25,115	37,577		
Cash & checking accounts	2,190	1,833	2,474	3,803		
Total Farm Assets	\$618,866	\$682,561	\$813,361	\$1,157,850		
Savings accounts	6,020	5,710	7,242	2,550		
Cash value life insurance	3,117	6,255	6,592	4,923		
Stocks & bonds	4,241	6,827	3,388	6,634		
Nonfarm real state	2,692	9,866	19,813	8,184		
Auto (personal share)	656	1,638	2,181	1,987		
All other	3,439	7,350	8,000	5,709		
Total Nonfarm Assets	\$ 20,165	\$ 37,546	\$ 47,216	\$ 29,987		
TOTAL ASSETS	\$639,031	\$720,107	\$860,577	\$1,187,837		
Liabilities						
Real estate mortgage	\$119,203	\$169,160	\$159,605	\$200,187		
Liens on cattle & equipment	77,937	92,350	80,407	161,000		
Installment contracts	20,229	15,710	15,709	8,454		
Other loans over 10 years	642	4,635	34,847	26,495		
Other loans 1 to 10 years	5,429	5,268	11,044	7,683		
Other loans less than 1 year	4,212	3,610	3,241	15,727		
Feed store & other accounts	4,682	7,591	11,145	8,827		
Total Farm Liabilities	\$232,334	\$296,324	\$315,998	\$428,373		
Total Nonfarm Liabilities	44	42	5,438	3,445		
TOTAL LIABILITIES	\$232,378	\$296,366	\$321,436	\$431,818		
Farm Net Worth (Equity Cap.)	\$386,532	\$386,237	\$497 , 363	\$729,477		
FAMILY NET WORTH	\$406 , 653	\$423,741	\$539,141	\$756,019		
Financial Measures						
Percent equity	64%	59%	63%	64		
Farm debt per cow	\$2,112	\$2,352	\$2,164	\$2,030		
Available for debt service			•			
& living	\$73,017	\$65,960	\$96,750	\$139,223		
Scheduled annual debt payment	\$54,285	\$61,515	\$65,379	\$98,993		
Scheduled debt payments/cow	\$493	\$488	\$445	\$466		
Payment as % of milk check	25%	26%	23%	23		
Debt/Asset ratio - long term	0.44	0.57	0.57	0.45		
Debt/Asset ratio - intermediate	0.31	0.31	0.25	0.30		
Cash flow coverage ratio	0.91	0.71	1.08	1.06		

MEASURE YOUR PERFORMANCE

After you have entered your farm business data on the pages of this workbook, categorize your farm business performance into three groups. List the strong points, those which indicate average performance and those areas which need improvement. Your business factors that exceed the regional average should be listed as strong points, factors that are close to the regional average should be identified as average, and factors that are below average should be listed under need improvement.

The Farm Business Chart on the page 18 and the Financial Analysis Chart on page 19 can be used to identify strengths and weaknesses by comparing your business with a large number of New York dairy farms summarized for the previous year. It is recommended that you use more than one standard for comparison when analyzing the farm business.

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After identifying opportunities for improvement, consider alternative ways of solving each problem. List each alternative and analyze the consequences in detail. Extension conducts many schools, meetings, and provides many printed materials that should be of assistance. Local agribusinesses often provide helpful information and assistance. Seek out information related to the problem under consideration.

Another way to measure your management performance is to compare your current business factors with those from previous years. Page 17 is provided for this purpose. Answering the following questions may also help evaluate your farm business progress.

- 1) Do livestock numbers, labor force, and crop acres make up a well balanced unit of resources?
- 2) Have rates of production shown a steady increase?
- 3) When will milk output per worker reach 600,000 pounds?
- 4) Have increases in costs been limited to the effects of inflation?
- 5) Is growth in net worth keeping up with increased capital investment?
- 6) Is net cash farm income increasing fast enough to meet your needs?
- 7) Have you reached the business goals set for 1982 and have you set new goals for 1983?