

A.E. Ext. 84-5

DAIRY FARM BUSINESS SUMMARY Southeastern New York Region

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 1983 Southeastern New York regional summary includes 20 Sullivan County dairy farms, seven Orange County dairy farms, and two from Ulster County.

The year ahead will bring increased economic pressures on the dairy farming industry. The Dairy Production Stabilization Act of 1983 is expected to reduce milk prices two to three percent while production costs may increase four to six percent. Dairy farmers must continue to place emphasis on operating efficiency and cost control in order to maintain adequate farm incomes. This year, more than ever, improving weak links in the business and projecting cash flows will be critical management steps to enhance business survival probabilities.

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 performance.

Changes in Computation

The interest charge made for using equity capital in the farm business was changed in 1982 to five percent. This <u>real</u> 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 as a liability and an asset on the farm balance sheet to reflect the farmer's committed liability as well as the value of an 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 29 Southeastern New York Region Dairy Farms, 1983

Type of Business	Number	Business Rec	ords Number	Dairy Records	Number
Proprietorship	26	CAMIS	2	D.H.I.C.	16
Partnership	2	Account Book	: 14	Owner Sampler	4
Corporation	1	Agrifax	10	None	9
		Other	3		
Owner	27				
Renter	2				
Barn Type	Number	Milking Syst	em Number		Number
Stanchion	26	Bucket & Car	ry 1	Herringbone	4
Freestall	3	Dumping Stat	ion 5	Other Parlor	1
		Pipeline	18		
Labor Force	My F	arm Average I	and Use	My Farm	Average
Operator 1.		mo. 12 7	otal acres ow	med	188
2.	5.000 ···· 2.000 ··· 2.000	mo. 1 7	otal acres re	ented	192
Family paid		 mo. 6 1	otal tillable	acres	195
Family unpaid		mo. 3 7	fillable acres	rented	117
Hired	4. <u>2010</u> -	mo. 6			
	0.0000000000000000000000000000000000000	N	lumber of Cows	My Farm	Average
Total		mo. 28 [–]			
		H	Beginning of y	ear	66
Age of operator(s) 1.	yrs. 45 E	Ind of year		68
·	2.	yrs. 36 A	verage for ye	ar	67
	A		- •		

<u>Capital Investment-Farm Inventory</u> 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	INVEST	MENT	- FARM	INVEN	FORY	
29	Southeaster	n New	York	Region	Dairy	Farms,	1983

	My	Farm	Average		
Item	1/1/83	1/1/84	1/1/83	1/1/84	
Livestock Feed & supplies Machinery & equipment Land & buildings	\$	\$	\$ 93,648 27,443 80,928 194,638	\$ 79,823 29,668 82,731 204,569	
TOTAL	\$	\$	\$396,657	\$396,791	

Inventory Accounting

The value of the dairy herd is influenced by market prices, herd quality and quantity. 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

29 Southeastern New	York Region	Dairy Farms,	1 9 83	
Item	My F	arm	Av	erage
End of year market value	\$		\$ 79, 823	
less end at beginning prices			-95,35 2	
Change due to price		\$		\$-15,529
End inventory at beginning prices	\$		\$95,352	
less beginning of year inventory	-		-93,648	
Change due to quality & quantity		\$		\$ 1,704

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

MACHINERY AND EQUIPMENT INVENTORY 29 Southeastern New York Region Dairy Farms, 1983

Item	My Farm	Average
End of year market value	(1)\$	\$82,731
Beginning market value	\$	\$80,928
Plus machinery purchased	+	+ 9,196
Less machinery sold	·	- 42
Less depreciation		-11,591
Net end investment	(2)\$	\$78,491
APPRECIATION (1 minus 2)	\$	\$ 4,240

The change in real estate value is affected by market forces, building depreciation, and lost capital which is the portion of a new building investment that is not reflected in the value of the farm.

	REAL	ESTATI	INVE	NTORY C	ALCULA'	CIONS	
29	Southeaste	ern Nev	Vork	Region	Dairy	Farms,	1983

Item	My Farm	Average
End of year market value	(1)\$	\$204,569
Beginning market value	\$	\$194,638
Cost of new real estate	\$	\$ 8,782
Less lost capital		- 1,202
Value of new added	+	+ 7,580
Less building depreciation		4,484
Less real estate sold	-	0
Net end investment	(2)\$	\$197,734
APPRECIATION (1 minus 2)	\$	\$ 6,835

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									
29	Southeastern	New	York	Region	Dairy	Farms,	1983		

Item	My Farm	Per Farm	Per Cow
CASH RECEIPTS			
Milk sales	\$	\$130,630	\$1,949.70
Crop sales		5,106	76.21
Dairy cattle sold		7,569	112.97
Calves & other livestock sales		1,683	25.12
Gas tax refunds		446	6.66
Government payments		1,097	16.37
Custom machine work		184	2.75
Other		1,078	16.09
Total Cash Receipts	\$	\$147,793	\$2,205.87
NONCASH RECEIPTS			
Increase in livestock inventory		1,704	25.43
Increase in feed & supplies		2,225	33.21
TOTAL FARM RECEIPTS			
EXCLUDING APPRECIATION	\$	\$151,722	\$2,264.51
Livestock appreciation ²		- 15,529	- 231.78
Machinery appreciation ³		4,240	63.28
-	······	-	
Real estate appreciation ³		6,835	102.01
TOTAL FARM RECEIPTS	\$	\$147,268	\$2,198.03

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

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

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

INCOME ANALYSIS								
Southeastern	New	York	Region	Dairy	Farms,	1983 &	1982	

Item	My Farm	29 Farms 1983	18 Farms 1982
Average price/cwt. milk sold Milk and cattle sales per cow	\$	\$13.76 \$2,088	\$13.69 \$2,067
Total cash receipts/worker		\$63,430	\$52,842

Expenses

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

FARM EXPENSES									
29	Southeastern	New	York	Region	Dairy	Farms,	1983		

Item	My Farm	Per Farm	Per Cow
Hired Labor	\$	\$ 10,033	\$ 149.75
Feed			
Dairy concentrate		36,213	540.49
Hay and other		1,499	22.37
Machinery			
Machine hire, rent and lease		932	13.91
Machinery repairs		5,770	86.12
Auto expense (farm share)	<u> </u>	424	6.33
Gas and oil		4,132	61.67
Livestock			
Replacement livestock		2,879	42.97
Breeding fees		1,881	28.07
Veterinary and medicine		2,380	35.52
Milk marketing		9,120	136.12
Cattle lease		0	.00
Other livestock expense		4,574	68.27
Crops			
Fertilizer & lime		5,261	78.52
Seeds and plants		1,784	26.63
Spray, other crop expense		1,326	19.79
Real Estate			
Land, building, fence repair		1,456	21.73
Taxes		3,645	54.40
Insurance		2,850	42.54
Rent and lease		4,073	60 . 79
Other			
Telephone (farm share)		612	9.13
Electricity (farm share)		3,710	55.37
Interest paid		9,865	147.24
Miscellaneous		2,620	39.10
Total Cash Expenses	\$	\$117,039	\$1,746.85
Expansion livestock		157	2.34
Machinery depreciation		11,591	173.00
Building depreciation		4,484	66.93
Unpaid family labor @ \$500/month		1,569	23.42
TOTAL FARM EXPENSES EXCLUDING			
INTEREST ON EQUITY CAPITAL	\$	\$134,840	\$2,012.54
Interest on equity capital @ 5%	<u> </u>	14,745	220.07
TOTAL FARM EXPENSES	\$	\$149,585	\$2,232.61
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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 Southeastern New York Region Dairy Farms, 1983 & 1982

Item	My Farm	29 Farms 1983	18 Farms 1982
Cash Farm Receipts	\$	\$147,793	\$118,894
Cash Farm Expenses		_117,039	93,268
NET CASH FARM INCOME	\$	\$ 30,754	\$ 25,626

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.

	LAB(OR ANI) MANAGI	ement	INCOME			
Southeastern	New	York	Region	Dairy	Farms,	1983	&	1982

Item	My Farm	29 Farms 1983	18 Farms 1982
Total farm receipts excluding appreciation	\$	\$151,722	\$123,416
Total farm expenses		149,585	121,315
LABOR & MANAGEMENT INCOME	\$	\$ 2,137	\$ 2,101
Full-time operator-manager equivalents	8	1.07	1.05
LABOR & MANAGEMENT INCOME PER OPERATOR-MANAGER	\$	\$ 1,997	\$ 2,001

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.

Item	My Farm	29 Farms 1983	18 Farms 1982
Total farm receipts	\$	\$147,268	\$125,232
Total farm expenses excluding interest on equity capital		134,840	107,294
LABOR, MANAGEMENT AND OWNERSHIP INCOME PER FARM	\$	\$ 12,428	\$ 17,938
Full-time operator-manager equivalents		1.07	1.05
LABOR, MANAGEMENT AND OWNERSHIP INCOME PER OPERATOR-MANAGER	\$	\$ 11,615	\$ 17,084

LABOR, MANAGEMENT AND OWNERSHIP INCOME Southeastern New York Region Dairy Farms, 1983 & 1982

<u>Return on equity capital</u> 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

Southeastern New York Region Dairy Farms, 1983 & 1982

Item	My Farm	29 Farms 1983	18 Farms 1982
Labor, management & ownership income per farm	\$	\$12,428	\$17,938
Less value of operator's labor & management		19,276	15,381
Return on equity capital	\$	\$-6,848	\$ 2,557
RATE OF RETURN INCLUDING APPRECIATION	N%	-2.3%	0 .9 %
RATE OF RETURN EXCLUDING APPRECIATION	N 2	-0.8%	0.3%

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 liabil-ity 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	NET	WORTH	

My Farm Item Average Assets \$ 79,823 Livestock \$ (includes discounted lease pymts) Feed and supplies 29,668 Machinery and equipment 84,554 (1, 823)(includes discounted lease pymts) 206,249 Land and buildings (1,680)(includes discounted lease pymts) Co-op investments 3,322 10,495 Accounts receivable Cash and checking accounts 2,960 \$417,071 Total Farm Assets \$ 5,488 Savings accounts Cash value life insurance 1,946 Stocks and bonds 14,682 Nonfarm real estate 13,590 Auto (personal share) 2,417 All Other 9,464 TOTAL FARM & NONFARM ASSETS \$464,658 **Liabilities** \$ 81,995 Long term Intermediate 32,382 3,503 Financial lease Short term 1,826 Other farm accounts 2,457 Total Farm Liabilities \$122,163 Nonfarm Liabilities 2,293 TOTAL LIABILITIES \$124,456 FARM NET WORTH (EQUITY CAPITAL) \$294,908 Ŝ FAMILY NET WORTH \$ \$340,202

29 Southeastern New York Region Dairy Farms, January 1, 1984

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 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.

Item	My Farm	Average
Payment Ability		
Net cash farm income	\$	\$30,754
Plus interest paid		9,865
Plus off-farm income		3,785
CASH AVAILABLE FOR DEBT SERVICE AND LIVING	\$	\$44,404
Less family living expenses*	·	17,146
CASH AVAIL. FOR DEBT PAYMENT & CAPITAL PURCHASES	\$	\$27,258
Scheduled Annual Debt Payments		
Long term	\$	\$12,617
Intermediate		11,971
Short term		1,759
Other farm accounts		1,708
TOTAL FARM DEBT PAYMENTS	\$	\$28,055
Nonfarm debt payments		375
TOTAL PAYMENTS PLANNED 1984	\$	\$28,430
Commitment & Measures of Debt Equity Position		
Farm debt pymts. planned/cow	\$	\$413
Farm debt pymts. as % milk sales	%	21%
Farm debt/asset ratio-long term		.40
Farm debt/asset ratio-intermediate & short term		.18
Farm debt per cow	\$	\$1,797
Percent equity (total)	*%	73%

FARM FAMILY DEBT REPAYMENT 29 Southeastern New York Region Dairy Farms, January 1, 1984

*Estimated as \$10,500 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 Southeastern New York Region Dairy Farms, 1983 & 1982

Item	My Farm	29 Farms 1983	18 Farms 1982
Number of cows		67	56
Number of heifers		51	44
Pounds of milk sold		949,100	802,000
Worker equivalent	*****	2.33	2.25
Total work units		726	611
Total tillable acres		195	155

In the table below, the 572 New York farms for 1982 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.

Number of Cows	Ave. Number of Cows	Number of Farms	Percent of Farms	Labor & Mgmt. Income Per Operator
Under 40	34	76	13	\$ 812
40 to 54	47	128	22	-19
55 to 69	61	107	19	3,225
70 to 84	76	82	14	3,064
85 to 99	9 0	52	9	2,152
100 to 149	120	69	12	4,073
150 to 199	169	33	6	-3,577
200 to 249	230	15	3	27,218
250 & over	363	10	2	45, 479

COWS PER FARM AND LABOR AND MANAGEMENT INCOME 572 New York Dairy Farms, 1982

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.

	My F	arm	Avera	age of Fai	ms Reporting
Crop	Acres	Yield	Farms	Acres	Yield/Acre
Dry hay			29	(com)	oined below)
Hay crop silage			12	(com	oined below)
Total hay crops			29	113	2.2 tons D.M.
Corn silage			27	42	13.7 tons
Other forage	7247-2447-146-2467-4861-14-14-14-14-14-14-14-14-14-14-14-14-14		1	_10	2.4 tons D.M.
Total forage crops			29	153	3.0 tons D.M.
Grain corn			8	104	91.8 bushels
Oats	······		0		
Wheat			0		
Other crops		-	0		
Tillable pasture			3	48	
Idle tillable land			6	21	
Milk sold per cow		949 with with 189 with 189 with 189 880 With 1		14.1	l66 pounds

CROP YIELDS & MILK SOLD PER COW 29 Southeastern New York Region Dairy Farms, 1983

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 572 New York Dairy Farms, 1982

Pounds of Milk Sold Per Cow	Number of Farms	Number of Cows	Labor & Mgmt. Income/Oper.	Labor, Mgmt., & Owner- ship Income/Operator
Under 11,000	52	53	\$-6,028	\$-1,924
11,000 to 11,999	27	55	-3,637	5,492
12,000 to 12,999	50	74	-4,893	7,908
13,000 to 13,999	88	88	348	15,624
14,000 to 14,999	10 9	86	2,475	15,311
15,000 to 15,999	117	87	6,453	22,074
16,000 to 16,999	64	88	10,715	26,851
17,000 to 17,999	43	97	7,024	26,668
18,000 & over	22	91	22,966	49,864

Labor Efficiency

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

Item	My Farm	29 Farms 1983	18 Farms 1982
Worker equivalent		2.33	2.25
Cows per worker		29	25
Lbs. milk sold per worker		407,339	356,444
Work units per worker		312	272

MEASURES OF LABOR EFFICIENCY Southeastern New York Region Dairy Farms, 1983 & 1982

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.

Pounds of Milk Sold Per Worker	Number of Farms	Number of Cows	Lbs. Milk Per Cow	Labor & Mgmt. Income Per Operator	Labor, Mgmt. & Ownership Inc. Per Operator
Under 250,000) 73	43	11,553	\$-3,985	\$ 2,967
250,000 to 299,999	55	54	13,296	-4,001	3,414
300,000 to 349,999	60	59	13,854	-957	10,220
350,000 to 399,999	92	73	14,625	2,010	13,878
400,000 to 449,000) 101	77	15,090	3,319	18,200
450,000 to 499,999	68	98	14,979	2,949	21, 393
500,000 to 599,999		111	15,317	7,271	23,823
600,000 & over	37	180	15,917	31,180	65,277

MILK SOLD PER WORKER AND LABOR AND MANAGEMENT INCOME 572 New York Dairy Farms, 1982

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.

Item	My Farm	29 Farms 1983	18 Farms 1982
Farm capital per worker	\$	\$170,297	\$159,530
Farm capital per cow	\$	5,835	6,297
Machinery investment per cow	\$	1,217	1,389
Machinery per tillable acre	\$	424	511
Land & buildings per cow	\$	3,008	2,998
Land & buildings/tillable acre owned	\$	2,200	2,341
Capital turnover (years)	· ·	2.7	2.9

MEASURES OF CAPITAL EFFICIENCY Southeastern New York Region Dairy Farms, 1983 & 1982

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 Rate - Years	Number of Farms	Number of Cows	Capital Per Cow	Investment Per Worker	Labor & Mgmt. Income Per Operator
less than 1.5	11	112	\$3,293	\$ 97,431	\$ 23,365
1.5 to 1.99	74	124	4,513	152,003	20,036
2.0 to 2.49	173	9 0	5,126	165,015	3,603
2.5 to 2.99	157	71	5,993	171,893	-662
3.0 to 3.49	9 0	70	6,602	184,237	-1,843
3.5 & over	67	54	7,551	181,486	-4,766

CAPITAL TURNOVER AND LABOR AND MANAGEMENT INCOME 572 New York Dairy Farms, 1982

The control of costs is a big factor in the success of modern commer-cial 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".

Item	My Farm		29 Farms 1983	18 Farms 1982
Dairy concentrate purchased per cow	\$	•	\$540	\$570
Dairy concentrate purchased per cwt. of milk sold	\$	-	\$3.82	\$3.98
Percent dairy concentrate is of milk receipts		<u>%</u>	28%	29%
Crop expense per cow	\$		\$125	\$118
Feed & crop expense/cwt. milk	\$	_	\$4.86	\$5.00
Forage dry matter harv./cow (tons)		_	6.7	7.7
Acres of forage per cow		_	2.3	2.6
Total tillable acres per cow		-	2.9	2.8
Fertilizer and lime/tillable acre	\$	_	\$27	\$25
Heifers as % of cow numbers		%	76%	79%

FEED COSTS AND RELATED MEASURES Southeastern New York Region Dairy Farms, 1983 & 1982

Southeastern New York R	egion Dairy	Farms, 1983 & 19	982
Item	My Farm	29 Farms 1983	18 Farms 1982
Machinery: Depreciation ¹	\$	\$11,591	\$ 8,317
Interest ²		4,092	3,926
Operating expense ³		11,258	10,248
Total machinery	\$	\$26,941	\$22,491
Per cow		\$402	\$402
Labor: Value of operators ⁴	\$	\$ 9,698	\$ 9,536
Unpaid family ⁵		1,569	1,500
Hired		10,033	8,058
Total labor	\$	\$21,300	\$19,094
Per cow		\$318	\$341
Per cwt. milk		\$2.24	\$2.38
Labor & machinery costs per cow		\$ 720	\$743
Labor & machinery costs/cwt. milk	\$	\$5.08	\$5.18

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

¹Regular depreciation from last year's tax plus 10 percent of new purchases.

 2 Five percent of average machinery investment.

³Machine hire, repairs, farm share auto expense, and gas and oil. 4 \$750 per month.

⁵\$500 per month.

MISCELLANEOUS COST CONTROL MEASURES Southeastern New York Region Dairy Farms, 1983 & 1982

Item	My Farm	29 Farms 1983	18 Farms 1982
Livestock expense per cow	\$	\$268	\$194
Real estate expense per cow	\$	\$1 79	\$158
Total farm expense per cow	\$	\$2,233	\$2,166

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.

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 29 Southeastern New York Region farms.

	Average	My Far	Cows	
Item	Per Cow	Per Cow	Total	Goa1
CASH RECEIPTS				
Milk sales	\$1,950	\$	\$	\$
Crop sales	76	· ·····	*	-
Dairy cattle	113		·······	
Calves & other livestock	25			
Other	42			
Total Cash Receipts	\$2,206	\$	\$	\$
CASH EXPENSES				
Hired labor	\$ 150	\$	\$	\$
Dairy concentrate	540		******	
Hay and other	22	<u></u>		
Machine hire	14			
Machine repair & auto expense	92			
Gas & oil	62			
Replacement livestock	43			
Breeding fees	28			
Vet & medicine	36			
Milk marketing (ADA, Dues)	136			
Other livestock expenses	68			
Fertilizer & lime	79			
Seeds & plants	27			
Spray & other	20			
Land, bldg. fence repair	22			
Taxes	54			
Insurance	43			
Rent	61			
Telephone & elec. (farm share)	65		1444 <u>4</u>	
Miscellaneous	38			
1		•	•	·····
Total Cash Expenses	\$1,600	\$	\$	\$
Total Cash Receipts	\$2,206			
Total Cash Expenses	-1,600		***	
Net Cash Flow	\$ 606	\$	\$	\$\$
Cash Family Living Expense ² Amount Left for Debt Service,	- 266			
Capital Investment &		•		•
Retained Earnings	\$ 340	ş	Ş	\$
Scheduled Debt Service	-413	_		
Available for Capital Investment	\$ -73	ş	\$	_ \$
Planned Expansion Livestock Purch.				
Planned Equipment Purchase				
Borrowed or Equity Funds Needed		ş	ş	\$

¹Interest paid excluded for it is contained in Scheduled Debt Service. ²Estimated: \$10,500 per family and four percent of cash farm receipts.

PROGRESS OF THE FARM BUSINESS

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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	1981	1982	1983	1984 Goal
Size of Business				
Number of cows				
Number of heifers				
Pounds of milk sold				
Worker equivalent				
Total tillable acres		······································		
Rates of Production				
Lbs. milk sold per cow				
Tons hay D.M. per acre		••••••••••••••••••		
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	\$	\$	\$	\$
Labor & mach. cost per cow	\$	\$	\$	\$
Capital Efficiency				
Farm capital per cow	\$	\$	\$	\$
Capital turnover	\$	\$	\$	\$
Price				·····
Price per cwt. milk	\$	\$	\$	\$
Financial Summary			·····	. <u> </u>
Net cash farm income	\$	\$	\$	\$
Labor & mgmt. inc./oper.	\$	\$	\$	\$
Farm net worth	\$	\$	\$	\$
Rate of return on equity	<u> </u>	7	ž	9
Percent equity	%	۳۳	۳	
Farm debt per cow	\$	\$	\$	\$

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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 572 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.

Size	of Bu	siness	Rates	Rates of Production			Efficiency
Worker Equiv- valent	No. of Cows	Pounds Milk Sold	Pounds Milk Sold Per Cow	Tons D.M./ Acre	Tons Corn Silage Per Acre	Cows Per Worker	Pounds Milk Sold Per Worker
6.2	219	3,391,200	18,100	4.6	20	44	659,100
4.0	125	1,844,000	16,600	3.6	18	36	537,600
3.3	94	1,415,700	15,900	3.2	16	33	484,700
3.0	80	1,188,900	15,400	2.8	15	30	445,100
2.7	70	1,020,000	14,900	2.6	15	28	416,100
2.4	61	902,800	14,400	2.3	14	26	388,600
2.1	54	784,800	13,900	2.1	12	25	357,100
2.0	48	662,200	13,200	1.9	12	23	315,200
1.7	41	545,500	12,100	1.7	10	20	266,200
1.3	33	379,400	9,700	1.3	7	16	192,800

FARM	BUSINESS	CHART	FOR	FARM	MANAGEM	ENT	COOPERATORS
	572	New Yo	ork l	Dairy	Farms,	1982	1

Feed Bought Per Cow	% Feed is of Milk Receipts	Machinery Cost Per Cow	Labor and Machinery Cost Per Cow	Feed and Crop Expense Per Cwt. Milk
\$197	10%	\$231	\$ 517	\$2.79
29 0	15	304	613	3.39
357	19	341	666	3.83
407	22	372	719	4.15
456	24	407	755	4.44
501	26	439	792	4.67
544	29	469	840	4.93
593	31	512	883	5.21
651	33	564	962	5.60
791	39	696	1,158	6.53

The cost control factors are ranked from low to high, but the <u>lowest</u> <u>cost is not necessarily the most profitable</u>. 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.

Liquidity (Repayment)									
Debt Payments Per Cow	Available for Debt Service Per Cow	Cash Flow Coverage Ratio	Debt Payments as Percent of Milk Sales ²	Debt Per Cow					
\$ 53	\$828	8.55	3	\$ 160					
207	647	2.02	11	774					
296	557	1.40	16	1,237					
367	486	1.10	19	1,683					
436	425	.91	23	2,035					
493	371	.75	26	2,364					
557	307	.61	30	2,772					
635	244	.46	35	3,177					
768	145	.29	42	3,751					
1,010	-82	66	60	4,849					

FINANCIAL ANALYSIS CHART 572 New York Dairy Farms, 1982

	Solv	ency	Effici	ency & Pro	ofitability	
		Debt/Asset B	atio	Capital	Rate of	f Return on
Leverage Ratio ³	Percent Equity	Current & Intermediate ⁴	Long Term ⁵	Turnover ^b (years)	Equity ⁷	Investment ⁸
.03	97	.00	.00	1.36	14%	12%
.15	87	•05	.06	1.95	6	8
.27	78	.11	.19	2.16	4	6
.41	71	.18	.34	2.36	1	5
.56	64	.23	.44	2.55	- 1	3
.72	58	.30	.54	2.70	- 3	2
•95	51	.37	.63	2.90	- 5	1
1.25	44	.45	.73	3.23	- 9	- 1
1.81	36	.56	.87	3.69	-17	- 3
8.50	20	.79	1.25	5.68	-81	- 8

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.

²Amount 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.

⁴All 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.

⁶Year-end farm inventory divided by total farm receipts.

⁷Return on equity capital, including appreciation, divided by farm net worth.

8 Return on all farm capital (no deduction for interest paid) divided by total farm assets.

FARM BUSINESS SUMMARY BY HERD SIZE 572 New York Dairy Farms, 1982

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Team Size: Less than 40 cove 55 to 70 to Capital Investment (end of year) Livestock \$ 49,013 \$ 72,347 \$ 94,025 \$ 115,565 Feed & supplies 9,858 16,105 24,793 32,663 Machinery & equipment 41,258 57,949 78,186 92,761 Lad & buildings 111,530 149,346 187,417 217,564 TOTAL INVESTMENT \$ 59,250 \$ 88,659 \$124,138 \$152,408 Dairy cattle sold 3,693 5,845 7,377 9,537 Other Livestock sales 1,363 1,619 1,655 1,731 Cops ales 792 1,623 1,934 1,988 Increase in livestock 1,622 3,541 4,838 5,855 Increase in feed 6 supplies 1,158 325 559 2,030 Appreciation 571 470 4,956 3176,229 TOTAL FARM RECE ITS \$ 66,774 \$100,23,769 \$144,6655<					
Capital Investment (end of year) Livestock \$ 49,013 \$ 72,347 \$ 94,025 \$ \$115,565 Feed & supplies 9,858 16,105 24,793 32,663 Machinery & equipment 41,258 57,949 78,186 92,761 Land & buildings 111,1530 149,346 187,417 217,564 TOTAL INVESTMENT \$211,659 \$2295,747 \$384,421 \$458,553 Receipts \$11,530 149,346 187,417 217,564 Milk sales \$59,250 \$88,659 \$124,138 \$152,408 Dairy cattle sold 3,693 \$,845 7,377 9,537 Other livestock sales 1,363 1,619 1,655 1,731 Crop sales 792 1,623 1,934 1,898 Increase in feed & supplies 1,156 325 559 2,030 Appreciation 568,724 \$102,399 \$144,905 \$176,229 TOTAL FARM RECEIPTS \$68,724 \$100 23,255 29,38 36,011 <	Farm Size:				
Livestock \$ 49,013 \$ 72,347 \$ 94,025 \$ 115,565 Feed & supplies 9,858 16,105 24,793 32,663 Machinery & equipment 41,258 57,949 78,186 92,761 Land & buildings 111,330 149,346 187,417 217,564 TOTAL INVESTMENT \$ 321,653 \$ 328,421 \$ \$458,553 Receipts 370 1,49,346 187,417 9,858,553 Receipts \$ 293,767 \$ 388,421 \$ \$458,553 Other livestock sales 1,363 1,619 1,655 1,731 Orop sales 293 767 1,408 1,134 Miscellaneous receipts \$ 65,391 \$ 98,13 \$ 135,512 \$ 166,708 Increase in feed 6 supplies 1,158 225 \$ 59 2,030 Appreciation 571 470 4,956 3,656 TOTAL FARM RECLEXCL APPREC. \$ 68,171 \$ 102,849 \$ 144,909 \$ 174,573 Expenses 11 \$ 61,910 23,255 29,388 36,011 Other feed 761 1,164 1,2		40 COWB	<u> </u>	09 2008	04 0088
Feed 6 supplies 9,858 16,105 24,793 32,663 Machinery 6 equipment 41,258 57,949 78,186 92,761 Land 6 buildings 111,530 149,346 187,417 217,564 TOTAL INVESTMENT \$221,659 \$229,747 \$384,421 \$458,559 Milk sales \$ 59,250 \$8,8659 \$124,138 \$152,408 Dairy cattle sold 3,633 5,845 7,377 9,537 Other livestock sales 1,363 1,619 1,655 1,731 Increase in livestock 1,622 3,541 4,838 5,835 Increase in fivestock 1,158 325 599 2,030 TOTAL FARM RECEIPTS \$ 68,742 \$102,849 \$146,865 \$178,229 TOTAL FARM RECE, EXCL. APPREC. \$ 68,171 \$102,379 \$141,909 \$174,573 Bachy and KCO.EXCL, APPREC. \$ 68,171 \$102,379 \$141,909 \$174,573 ToTAL FARM RECE, EXCL. APPREC. \$ 68,171 \$102,379 \$141,909 \$174,573					
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TOTAL INVESTMENT \$211,659 \$295,747 \$384,421 \$458,553 Receipts 3,693 5,845 7,377 9,537 Milk sales \$59,250 \$88,659 \$124,138 \$152,408 Dairy cattle sold 3,693 5,845 7,377 9,537 Other livestock sales 1,363 1,619 1,625 1,731 Miscellaneous receipts 792 1,623 \$136,512 \$166,708 Increase in feed & supplies 1,158 325 559 2,030 Appreciation 571 470 4,956 3,656 TOTAL FAM RECLEXCL APPREC. \$68,171 \$102,379 \$141,909 \$174,573 Expenses Hired labor \$2,352 \$4,584 \$8,441 \$12,087 Machinery repair 2,476 4,454 5,916 8,277 Matchinery repair 2,476 4,454 5,916 8,277 Matchinery repair 2,476 4,454 5,916 8,277 Matce expense 1,318 1,350					
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Milk sales \$ 59,250 \$ 88,659 \$ 124,138 \$ 152,408 Dairy cattle sold 3,693 5,845 7,377 9,537 Other livestock sales 1,363 1,619 1,655 1,731 Grop sales 293 767 1,408 1,134 Miscellaneous receipts \$ 65,391 \$ 98,513 \$ 136,512 \$ 1666,708 Increase in fivestock 1,622 3,541 4,838 5,835 Increase in feed & supplies 1,158 325 559 2,030 Appreciation 571 470 4,956 3,656 TOTAL FARM RECIPTS \$ 68,742 \$ 102,379 \$ 141,909 \$ 174,572 Paremes 1 164 1,285 1,075 Machine hire 479 795 1,417 1,235 Machine hire 2,476 4,454 5,916 8,277 Mathe sine feed 761 1,164 1,285 1,075 Machine hire 1,087 1,837 2,545 2,873		\$211,659	\$295,747	\$384,421	\$458,553
Dairy cattle sold 3,693 5,845 7,377 9,537 Other livestock sales 1,363 1,619 1,655 1,731 Crop sales 233 767 1,408 1,134 Miscellaneous receipts 792 1,623 1,934 1,898 Total Cash Receipts \$65,391 \$98,513 \$136,512 \$166,708 Increase in livestock 1,622 3,541 4,838 5,835 Increase in feed & supplies 1,158 325 559 2,030 Appreciation 571 470 4,956 3,556 TOTAL FARM RECEIPTS \$68,742 \$102,379 \$141,909 \$174,573 Expenses 1 1,164 1,285 1,075 Mathine hire 69,910 23,255 9,338 36,011 Other feed 761 1,164 1,285 1,075 Machine hire 479 795 1,417 1,235 Machine hire 1,363 1,318 1,542 1,638 Replacement animals 1,136 1,318 1,542 1,638					
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Increase in livestock 1,622 3,541 4,838 5,835 Increase in feed & supplies 1,158 325 559 2,030 Appreciation 571 470 4,956 3,656 TOTAL FARM RECEIPTS \$ 68,742 \$102,849 \$144,909 \$174,573 Expenses 1 \$102,379 \$141,909 \$174,573 Mired labor \$ 2,352 \$ 4,584 \$ 8,441 \$ 12,087 Dairy grain & concentrate 16,910 23,255 29,338 36,011 Other feed 761 1,164 1,285 1,075 Machine hire 479 795 1,417 1,235 Machinery repair 2,476 4,454 5,916 8,277 Auto expense (farm share) 393 432 479 407 Gas & oil 2,422 3,760 5,408 6,489 Replacement animals 1,136 1,318 1,542 1,638 Breeding fees 881 1,350 1,975 2,184 Veterinary & medicine 2,087 3,550 4,399 5,690 <	Miscellaneous receipts			1,934	1,898
Increase in feed & supplies 1,158 325 559 2,030 Appreciation 571 470 4,956 3,656 TOTAL FARM RECEIPTS \$ 68,742 \$102,849 \$146,865 \$178,229 TOTAL FARM RECEIPTS \$ 2,352 \$ 4,584 \$ 8,441 \$ 12,087 Bired Labor \$ 2,352 \$ 4,584 \$ 8,441 \$ 12,087 Dairy grain & concentrate 16,910 23,255 29,338 36,011 Other feed 761 1,164 1,285 1,075 Machine hire 479 795 1,417 1,235 Machine hire 2,476 4,454 5,916 8,277 Auto expense (farm share) 393 432 479 407 Gas & oll 2,422 3,760 5,408 6,489 Replacement animals 1,136 1,318 1,542 1,638 Breeding fees 881 1,350 1,975 2,184 Veterinary & medicine 1,087 1,837 2,545 2,873 Milk marketing 2,008 4,061 6,619 8,097	Total Cash Receipts	\$ 65,391	\$ 98,513	\$136,512	\$166,708
Appreciation 571 470 4,956 3,656 TOTAL PARM RECEIPTS \$ 68,742 \$102,849 \$146,865 \$178,229 TOTAL FARM REC. EXCL. APPREC. \$ 68,171 \$102,379 \$141,909 \$174,573 Expenses #ired labor \$ 2,352 \$ 4,584 \$ 8,441 \$ 12,087 Dairy grain & concentrate 16,910 23,255 29,338 36,011 Other feed 761 1,164 1,285 1,075 Machine hire 479 795 1,417 1,235 Machinery repair 2,476 4,454 5,916 8,277 Auto expense (farm share) 393 432 479 407 Gas & oil 2,472 3,760 5,408 6,489 Breeding fees 881 1,350 1,975 2,184 Veterinary & medicine 1,087 1,837 2,545 2,873 Milk marketing 2,272 3,550 4,399 5,690 Cattle lease 25 154 93	Increase in livestock	1,622	3,541	4,838	5,835
Appreciation 571 470 $4,956$ $3,656$ TOTAL FARM RECEIPTS\$ 68,742\$102,849\$146,865\$178,229TOTAL FARM REC. EXCL. APPREC.\$ 68,171\$102,379\$141,909\$174,573ExpensesHired labor\$ 2,352\$ 4,584\$ 8,441\$ 12,087Dairy grain & concentrate16,91023,25529,33836,011Other feed7611,1641,2851,075Machine hire4797951,4171,235Machine reprint2,4764,4545,9168,277Auto expense (farm share)393432479407Gas & oll2,2223,7605,4086,489Breeding fees8811,3181,5421,638Breeding fees8811,3501,9752,184Veterinary & medicine1,0871,8372,5452,873Milk marketing2,2723,5504,3995,690Cattle lease2515493106Other livestock expense2,1584,1034,8255,690Seeds & plants6991,3182,1072,745Spray & other crop expense4429481,7741,980Land, blg., fence repair9271,3751,9402,882Taxes & insurance3,2184,2685,4576,685Electricity & phone (farm share)1,9562,6943,4724,124Interest paid7,7341,16613,6671,700 </td <td>Increase in feed & supplies</td> <td>1,158</td> <td>325</td> <td>559</td> <td>2,030</td>	Increase in feed & supplies	1,158	325	559	2,030
TOTAL FARM RECEIPTS § 68,742 \$102,849 \$146,865 \$178,229 TOTAL FARM REC. EXCL. APPREC. \$ 68,171 \$102,379 \$141,909 \$174,573 Expenses ************************************		571	470	4,956	
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Labor & Management Income \$ 885 \$ -22 \$ 4,225 \$ 4,045 Number of Operators 1.09 1.15 1.31 1.32 LABOR & MGT. INCOME/OPER. \$ 812 \$ -19 \$ 3,225 \$ 3,064			-	-	
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LABOR & MGT. INCOME/OPER. \$ 812 \$ -19 \$ 3,225 \$ 3,064		-	•	\$ 4,225	\$ 4,045
LABOR & MGT. INCOME/OPER. \$ 812 \$ -19 \$ 3,225 \$ 3,064				1.31	1.32
TIDOD HOW A DEPENDING A REAL A DEPENDING A REAL AND A REAL		\$ 812	\$ -19	\$ 3,225	
	LABOR, MGT. & OWNSHP. INC./OPER.	\$ 7,761	\$ 8,473	\$ 16,812	\$ 17,113

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FARM	BUSIN	ESS	SUMMAR Y	BY	HER	D SIZE
572	New	York	Dairy	Farm	18,	1982

	. 85 to	100 to	150 to	200 to	250 or
Item Farms with	n: 99 cows	149 cows	199 cows	249 cows	more cowa
Capital Investment (end of y	ar)				
Livestock	\$128,477	\$174,890	\$239,287 \$	\$353,216	\$ 548,823
Feed & supplies	35,862	48,670	69,777	102,643	165,13
Machinery & equipment	98,966	128,766	170,864	178,901	264,26
Land & buildings	244,040	302,448	410,347	592,648	956,91
TOTAL INVESTMENT	\$507,345	\$654,774	\$890,275		
Receipts	<i>y</i> 507,545	4034 <i>311</i> 4	4070 ,1 73 4	_,,,	<i>,.,,.</i>
Milk sales	\$179,475	\$239,089	\$343,973	\$473,489	\$ 800,52
Dairy cattle sold	13,825	15,795	23,513	36,501	52,81
Other livestock sales	1,450	4,291	4,666	5,689	9,29
Crop sales	2,030	2,066	4,882	4,958	12,98
Miscellaneous receipts	3,004	4,075	6,258	10,459	16,01
Total Cash Receipts	\$199,784	\$265,316	\$383,292	\$531,096	
Increase in livestock	2,783	9,854	8,400	26,065	56,56
Increase in feed & supplies	(717)	(1,868)	-	3,561	11,03
Appreciation	544	1,486	4,746	8,263	51,41
TOTAL FARM RECEIPTS	\$202,394		\$392,802		\$1,010,65
TOT. FARM REC. EXCL. APPREC	-	\$273,302	\$388,056	\$560,722	
Expenses	••=•=,•=•	,,	,,	<i>+</i>	,,
Hired labor	\$ 15,498	\$ 25,288	\$ 45,839	\$ 65,575	\$125,05
Dairy feed & concentrate	42,613	53,405	78,634	117,640	199,71
Other feed	1,214	3,736	2,842	3,209	5,04
Machine hire	1,290	1,949	2,959	3,402	7,67
Machinery repair	9,801	12,681	18,860	26,189	35,40
Auto expense (farm share)	461	647	480	436	65
Gas & oil	8,514	10,550	15,190	17,942	33,57
Replacement animals	1,891	4,450	5,425	4,407	8,08
Breeding fees	2,371	3,119	4,284	6,997	10,34
Veterinary & medicine	3,444	4,995	7,484	13,727	19,13
Milk marketing	7,524	8,797	13,127	15,942	23,45
Cattle lease	382	72	284	347	,
Other livestock expense	6,477	8,379	12,027	16,256	30,51
Fertilizer & lime	9,727	13,053	19,779	26,312	41,40
Seeds & plants	2,911	4,394	7,201	9,096	12,18
Spray & other crop expense	2,744	3,297	5,441	5,990	10,46
Land, bldg., fence repair	3,265	3,824	5,881	5,987	
Taxes & insurance	7,318	9,983	13,582	17,426	
Elec. & phone (farm share)	4,701	5,979	8,146	9,060	
Interest paid	21,779	26,397	36,645	44,507	99,36
Miscellaneous expenses	5,765	8,214	11,649	12,221	
Total Cash Expenses	\$159,690	\$213,209	\$315,759	\$422,668	
Expansion livestock	931	4,540	6,025	7,528	
Machinery depreciation	14,249	18,857	28,192	30,454	
Building depreciation	5,952	9,130	11,857	18,398	
Unpaid family labor	1,788	949	939	667	•
Interest on equity @ 5% TOTAL FARM EXPENSES	<u>16,098</u> \$198,708	20,955 \$267,640	31,043 \$393,815	39,364 \$519,079	55,34
Financial Summary	-	-	-	-	r
NET CASH FARM INCOME	\$ 40,094	\$ 52,107	\$ 67,533	\$108,428	\$157,11
Labor & Management Income	\$ 3,142	\$ 5,662	\$ -5,759	\$ 41,643	
Number of Operators	1.46	1.39	1.61	1.53	
LABOR & MGT. INCOME/OPER.	\$ 2,152	\$ 4,073	\$ -3,577	\$ 27,218	
LABOR, MGT. & OWNSHP. INC/OI		\$ 20,218	\$ 18,652	\$ 58,346	

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	Farms with:					
	Less than	40 to	55 to	70 to		
Item	40 cows	54 cows	69 cows	84 cowe		
lumber of f arms	76	128	107	82		
Size of Business						
Number of cows	34	47	61	76		
Number of heifers	26	38	51	64		
Pounds of milk sold	440,100	660,600	928,900	1,124,500		
Worker equivalent	1.67	2.00	2.42	2.75		
Total Work units	374	539	687	867		
Total tillable acres	116	171	211	256		
(Tillable acres rented)	(27)	(42)	(63)	(82)		
lates of Production						
Milk sold per cow	12,944	14,055	15,228	14,796		
Tons hay crop per acre	2.0	2.2	2.5	2.5		
Tons corn silage per acre	11.8	12.7	13.3	13.1		
Bushels of oats per acre	29.1	57.1	60.5	54.3		
abor Efficiency						
Cows per worker	20	24	25	28		
Pounds milk sold per worker	263,533	330,300	383,843	408,909		
Work units per worker	224	270	284	315		
eed Costs						
Feed purchased per cow	\$497	\$495	\$481	\$474		
Crop expense per cow	\$93	\$135	\$172	\$169		
Feed cost per cwt. milk	\$3.84	\$3.52	\$3.16	\$3.20		
Feed & crop exp. per cwt. milk	\$4.73	\$4.65	\$4.43	\$4.44		
% feed is of milk receipts	29%	26%	24%	24		
Tons forage dry matter per cow	6.8	7.6	7.7	8.2		
Tillable acres per cow	3.4	3.6	3.5	3.4		
Fertilizer & lime per crop acre	\$17	\$24	\$31	\$32		
fachinery & Labor Costs						
Total machinery costs	\$13,337	\$20,376	\$28,204	\$35,234		
Machinery cost per cow	\$392	\$434	\$462	\$464		
Machinery cost per cwt. milk	\$3.03	\$3.08	\$3.04	\$3.13		
Labor cost per cow	\$406	\$364	\$353	\$338		
Labor cost per cwt. milk	\$3.14	\$2.59	\$2.32	\$2.29		
Capital_Efficiency_						
Investment per worker	\$126,742	\$147,874	\$158,852	\$166,747		
Investment per cow	\$6,047	\$6,036	\$6,007	\$5,804		
Investment per cwt. milk	\$48	\$45	\$41	\$41		
Land & buildings per cow	\$3,187	\$3,048	\$2,928	\$2,754		
Machinery investment per cow	\$1,179	\$1,183	\$1,222	\$1,174		
Capital turnover	3.1	2.9	2.6	2.6		
ther						
Price per cwt. milk sold	\$13.46	\$13.42	\$13.36	\$13.55		
Acres hay crops	83	103	109	142		
Acres corn silage*	14	31	44	60		

*Average of all farms.

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SELECTED BUSINESS FACTORS BY HERD SIZE 572 New York Dairy Farms, 1982

Farms with:								
	85 to	100 to	150 to	200 to	250 or			
Item	99 cows		199 cows					
Number of farms	52	69	33	15	10			
Size of Business								
Number of cows	9 0	120	169	230	363			
Number of heifers	70	98	127	212	284			
Pounds of milk sold			2,528,300		5,868,500			
Worker equivalent	3.08	3.67	4.83	6.25	8.75			
Total work units	999	1,338						
Total tillable acres	290	368	527	577	913			
(Tillable acres rented)*	(106)	(132)	(181)	(184)	(348)			
Rates of Production								
Milk sold per cow	14,480	•						
Tons hay crop per acre	2.9			3.0				
Tons corn silage per acre	13.5			15.6				
Bushels of oats per acre	66.1	49.9	46.7	81.8	95.7			
Labor Efficiency								
Cows per worker	29	33	35	37	41			
Pounds milk sold per worker	423,117	477,766	523,458	554,256	670,686			
Work units per worker	324	-	-	406	447			
Feed Costs								
Feed purchased per cow	\$473	\$445	\$465	\$511	\$550			
Crop expense per cow	\$171		•	\$180				
Feed cost per cwt. milk	\$3.27	-		\$3.40	-			
Feed & crop exp. per cwt. mi		-		-	-			
% feed is of milk receipts	245	č 225	ະ 232	2 5%	3 25%			
Tons forage dry matter per o	.ow 8.0	8.1	8.3	7.8	8.0			
Tillable acres per cow	3.2	3.1	3.1	2.5	2.5			
Fertilizer & lime per crop a	acre \$34	\$35	\$38	\$46	\$45			
Machinery & Labor Costs								
Total machinery costs	\$39,237	\$51,045	\$74,134	\$87,122	\$139,530			
Machinery cost per cow	\$436	\$425	\$439	\$379	\$384			
Machinery cost per cwt. mill	¢\$3.01	\$2.91	\$2.93	\$2.51	\$2.38			
Labor cost per cow	\$337	\$321	\$361	\$348	\$384			
Labor cost per cwt. milk	\$2.33	\$2.20	\$2.41	\$2.31	\$2 . 38			
Capital Efficiency								
Investment per worker	\$164,722	\$178,413	\$184,322	\$196,385	\$221,158			
Investment per cow	\$5,515	\$5,156	\$5,058	\$5,072	\$5,079			
Investment per cwt. milk	\$39	\$37	\$35	\$35				
Land & buildings per cow	\$2,653	\$2,381	\$2,332	\$2,449	\$2,512			
Machinery investment per com	v \$1,076	\$1,014	\$971	\$739	\$694			
Capital turnover	2.5	2.4	2.2	2.2	1.9			
Other								
Price per cwt. milk sold	\$13.77	\$13.64	\$13.60	\$13.67	\$13.64			
Acres hay crops	147			231	290			
Acres corn silage*	69	102	131	209	406			

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SELECTED BUSINESS FACTORS BY HERD SIZE 572 New York Dairy Farms, 1982

*Average of all farms.

FARM	FAMILY	FINANCIAL	SITUATION B	Y HERD SIZE	
572	New Yor	ck Dairy Fa	arms, Januar	y 1, 1983	

	Taga than	40 to	55 to	70 to	 85 to
Item Farms with:	Less than 40 cows	40 LO 54 cows	69 cows	84 cows	99 cows
• • • • • • • • • • • • • • • • • • •					
Number of farms	76	128	107	82	52
Assets					
Livestock (includes discounted	d\$ 49,013	\$ 72,347	\$ 94,219	\$115,659	\$128,688
lease payments)	(0)	(0)	(194)	(94)	(211)
Feed & supplies	9,858	16,105	24,793	32,663	35,862
Machimery & equipment (includ	es 41,577	58,063	78,479	93,274	99,079
discounted lease payments)	(319)	(114)	(293)	(513)	(113)
Land & buildings (includes		152,316	188,190	220,546	245,889
	(1,245)	(2,970)			(1,849)
Co-op investment	1,410	2,432	4,676	5,573	10,389
Accounts receivable	4,511	7,481	10,283	13,244	17,670
Cash & checking accounts	1,128	2,110	2,627	2,929	2,737
Total Farm Assets	\$220,272	\$310,854	\$403,267	\$483,888	\$540,314
Savings accounts	2,422	1,907	3,258	3,124	3,253
Cash value life insurance	1,750	1,973	2,360	2,164	2,825
Stocks & bonds	1,581	1,396	1,634	1,275	5,075
Nonfarm real estate Auto (personal share)	2,243	1,871	8,140	4,901 1,596	4,077
All other	1,130 8,064	1,273 5,834	1,745 5,140	•	1,503 5,947
Total Nonfarm Assets	$\frac{3,004}{\$ 17,190}$	\$ 14,254	\$ 22,277	7,652 \$ 20,712	\$ 22,680
		-			
TOTAL ASSETS	\$237,462	\$325,108	\$425,544	\$504,600	\$562,994
Liabilities					
Long term	\$ 48,724	\$ 76 ,9 05	\$ 85,899	\$111,280	\$119,743
Intermediate	25,868	39,341	52,120	62,618	86,166
Financial lease	1,564	3,084	1,260	3,589	2,173
Short-term	1,548	1,941	3,204	4,211	3,035
Other farm accounts	$\frac{2,486}{2,100}$	3,665	3,927	4,426	7,246
Total Farm Liabilities	\$ 80,190	\$124,936	\$146,410	\$186,124	\$218,363
Total Nonfarm Liabilities	542	384	743	30	129
TOTAL LIABILITIES	\$ 80,732	\$125,320	\$147,153	\$186,154	\$218,492
Farm Net Worth (Eq. Cap.)	\$140,082	\$185,918	\$256,857	\$297,764	\$321,951
FAMILY NET WORTH	\$156,730	\$199,788	\$278,391	\$318,446	\$344,502
Financial Measures					
Percent equity	66%	61%	65%	63%	61%
Farm debt per cow	\$2,291	\$2,550	\$2,288	\$2,356	\$2,374
Available for debt service			,	,_,	, _, _,
& living	\$23,188	\$31,689	\$44,556	\$52,660	\$62,205
Scheduled annual debt payment		\$24,924	\$30,696	\$40,160	\$46,649
Scheduled debt payments/cow	\$487	\$504	\$477	\$496	\$506
Payment as % of milk check	29%	28%		26%	
Debt/Asset ratio - long term	0.43	0.50	0.46	0.50	0.49
Debt/Asset ratio - intermedia	te				
& short-term	0.27	0.28	0.26	0.27	0.31
Cash flow coverage ratio	0.55	0.64	0.84	0.81	0.84

100 to 150 to 200 to 25							
Item	149 cows	199 cows	249 cows	more cows			
Number of farms	69	33	15	10			
Assets							
Livestock (includes discounted	\$174,890	\$240,172	\$ 353,216	\$ 548,827			
lease payments)	(0)	(885)	(0)	(0)			
Feed & supplies	48,670	69,777	102,643	165,130			
Machinery & equipment (includes	129,350	171,650	178,901	266,207			
discounted lease payments)	(584)	(786)	(0)	(1,941)			
Land & buildings (includes	306,021	412,803	596,034	956,913			
discounted lease payments)	(3,573)	(2,456)	(3,386)	(0)			
Co-op investment	9,503	19,241	23,975	40,200			
Accounts receivable	20,977	28,611	44,462	75,160			
Cash & checking accounts	3,466	3,109	1,818	8,184			
Total Farm Assets	\$692,877	\$945,363	\$1,301,049	\$2,060,621			
Savings accounts	2,609	6,233	768	1,193			
Cash value life insurance	3,699	4,917	2,344	2,566			
Stocks & bonds	3,750	7,606	4,970	4,574			
Nonfarm real estate	10,648	13,030	3,592	0			
Auto (personal share)	1,896	2,852	1,983	985			
All other	7,029	7,788	1,534	<u> </u>			
Total Nonfarm Assets	\$ 29,631	\$ 42,426	\$ 15,191	\$ 14,794			
TOTAL ASSETS	\$722,508	\$987,789	\$1,316,240	\$2,075,415			
Liabilities							
Long term	\$150,060	\$155,699	\$2 95,6 71	\$490,215			
Intermediate	105,394	149,339	193,044	352,098			
Financial lease	4,157	4,127	3,386	1,941			
Short-term	6,621	4,664	10,120	94,030			
Other farm accounts	7,554	10,672	11,545	15,505			
Total Farm Liabilities	\$273,786	\$324,501	\$513,766	\$953,789			
Total Nonfarm Liabilities	301	2,986	0	0			
TOTAL LIABILITIES	\$274,087	\$327,487	\$513,766	\$953,789			
Farm Net Worth (Equity Cap.)	\$419,091	\$620,862	\$787,283	\$1,106,832			
FAMILY NET WORTH	\$448,421	\$660,302	\$802,474	\$1,121,626			
Financial Measures							
Percent equity	62%	67%	61%	54			
Farm debt per cow Available for debt service	\$2,156	\$1,844	\$2,123	\$2,503			
	670 510	¢106 169	6155 007	6950 590			
& living Scheduled ensuel debt newment	\$79,512	\$106,142 \$71,442	\$155,997	\$258,528			
Scheduled annual debt payment	\$57,850 \$454		\$109,206 \$451	\$185,677			
Scheduled debt payments/cow Payment as % of milk check	\$454 24%	\$404		\$487 23			
-		21%					
Debt/Asset ratio - long term	0.49	0.38	0.50	0.51			
Debt/Asset ratio - intermediate							
& short-term	0.30	0.30	0.29	0.41			
Cash flow coverage ratio	0.95	1.04	1.09	1.11			

FARM	FAMIL	Y FI	NANCIA	L SITU	TION	BY	HER	D SIZE	1
572	New Y	lork	Dairy	Farms,	Janua	ıry	1,	1983	

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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 <u>average</u>, and factors that are below average should be listed under <u>need improvement</u>.

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.

STRONG POINTS:

AVERAGE:

NEED	IMPROVEMENT:	

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?