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1991 EASTERN NEW YORK DAIRY FARM RENTER BUSINESS SUMMARY

INTRODUCTION

Dairy farmers throughout New York State submit business records for summarization and analysis through Cornell Cooperative Extension's Farm Business Management Program. Averages from a compilation of the individual farm reports are published in eight regional summaries and in one statewide summary.¹

Accrual procedures have been used to provide the most accurate accounting of farm receipts and farm expenses for measuring farm profits. An explanation of these procedures is found on pages 4-6. Four measures of farm profits are calculated on pages 7 and 8. The balance sheet and cash flow statement are featured on pages 9-14. The dairy program analysis includes data on the costs of producing milk (pages 17 and 18).

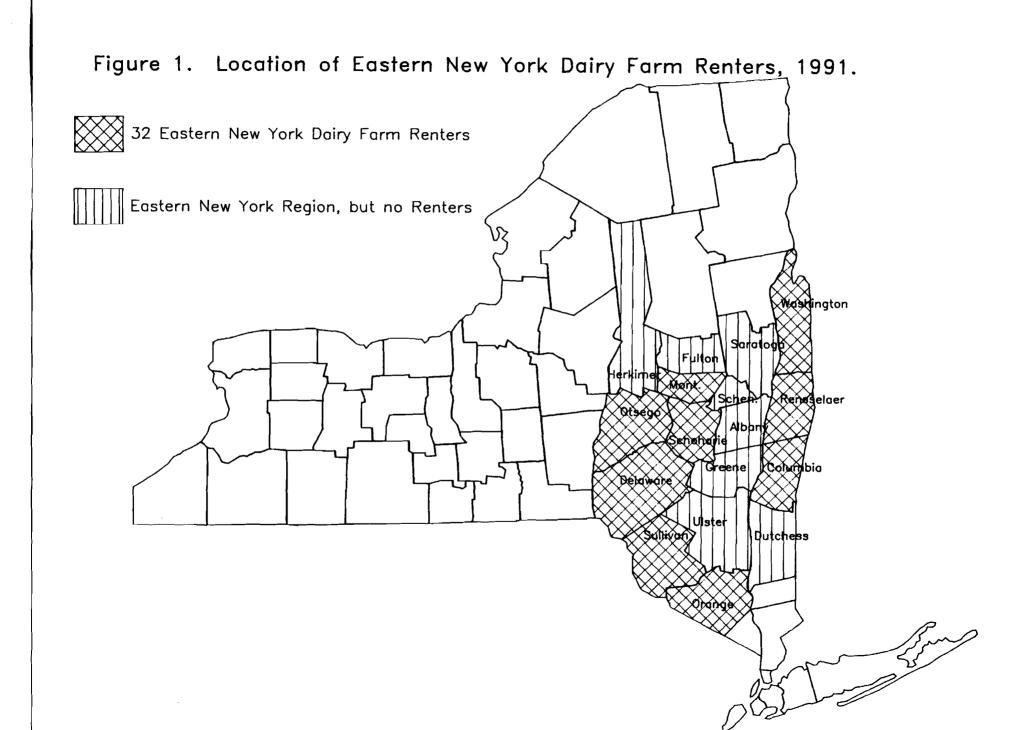
This Eastern New York Dairy Summary is an average of 32 businesses that are renting substantially all of the farm real estate. The farm income, financial summary, and business analysis sections of this report include comparisons with average data on 140 owned dairy farms in the region. This report is prepared in workbook form for farm renters to use in the systematic study of their farm business operations.

Business records for 32 farms in Columbia, Delaware, Montgomery, Orange, Otsego, Rensselaer, Schoharie, Sullivan, and Washington Counties are summarized in this publication. The Eastern New York region consists of these counties plus Albany, Dutchess, Fulton, Greene, Herkimer, Saratoga, Schenectady, and Ulster Counties which do not have dairy farm business summary participants that classify as renters (see Figure 1 on page 2). The 140 owned dairy farms summarized in this publication include farms from the entire region.

Use Comparative Profitability Data With Caution

The profitability analysis on page 8 where labor and management income is calculated implies that renting a dairy farm is more profitable than owning one. Concessionary rental rates set by some land owners is a major factor. The farm owners are often father and mother and other landlords who are willing to accept a very low return for their investment. Total real estate costs including depreciation and interest on equity capital averaged \$158 per tillable acre on the owned dairy farms compared to only \$101 on the rented farms. This accounts for a \$22,130 difference in costs between owned and rented farms.

¹Smith, Stuart F., Wayne A. Knoblauch, and Linda D. Putnam, <u>Dairy Farm</u> <u>Management Business Summary, New York, 1991</u>, A.E. Res. 92-6, August 1992.



SUMMARY AND ANALYSIS OF THE FARM BUSINESS

Business Characteristics and Resources Used

Recognition of important business characteristics and identification of the farm resources used are necessary for evaluating management performance. The combination of resources and management practices is known as farm organization. Important farm business characteristics, the number of farms reporting these characteristics, and a listing of the average labor, land, and dairy cattle resources used are presented in the following table.

BUSINESS CHARACTERISTICS AND RESOURCES USED 32 Eastern New York Dairy Farm Renters, 1991

| <u>Type of Business</u> Single proprietorship Partnership <u>Milking System</u> Dumping station Pipeline Herringbone parlor Other parlor | <u>Number</u> 30 2 <u>Number</u> 1 26 4 | Labor Force Operator 1. Operator 2. Operator 3. Family paid Family unpaid Hired Total | My Farm mo. mo. mo. mo. mo. mo. mo. mo. mo. mo. mo. mo. mo. mo. | 1.19 0.38 2.09 3.09 |
|---|---|--|---|------------------------------|
| <u>Type of Barn</u> Stanchion Freestall Combination | 1 <u>Number</u> 26 4 2 | Worker equivalent (total + 12) Operator/Manager Equivalent (Oper. mo. + 12) | | 1.98 1.13 |
| <u>Dairy Records Service</u> DHIC DHIC Owner-Sampler Other None | <u>Number</u> 23 4 2 3 | <u>Land Use</u> Total acres rented Tillable acres rented | <u>My Farm</u> | <u>Average</u> 370 218 |
| <u>Business Record System</u> Account Book Agrifax (mail-in only) | <u>Number</u> 18 5 | <u>Number of Cows</u> Beg. year (owned) End year (owned & | <u>My Farm</u> | <u>Average</u> 57 |
| ELFAC Other | 0 5 | leased) Average for year | | 60 |
| On-farm computer | 4 | (owned & leased) | | 59 |

Predominate business characteristics of the 32 rented farms include the single proprietorship, pipeline milking system, stanchion or conventional stall barn, DHIC herd records and an account book record system. They are very similar to owned dairy farms in this respect.

The average size of the labor force on the rented farms was 44 percent less than the 2.86 worker equivalent on owned farms. The rented farms averaged 218 tillable acres and 59 cows compared to 279 tillable acres and 90 cows on the 140 owned dairy farms in the same region. The owned farms averaged 31 cows per worker compared to 30 on the rented farms. Land resources were being used more efficiently by dairy farm owners when measured as tillable acres per cow.

Income Statement

The accrual income statement begins with an accounting of all farm business expenses.

| | | Inventor | | Change in | | _ |
|---------------------------|---------------|----------------|------|----------------|------------------|-----------------|
| | Cash | or Prepa | | Accounts | Accrual | Percent |
| Expense Item | <u>Paid</u> + | <u>Expense</u> | + | <u>Payable</u> | Expenses | <u>of Total</u> |
| <u>Hired Labor</u> \$ | 9,013 | \$ 0 | ¢ | \$-67 | \$ 8,946 | 7 |
| Feed | · | | | • | - , | |
| Dairy grain & conc. | 34,772 | 526 | | 497 | 35,795 | 30 |
| Dairy roughage | 863 | 80 | | 0 | 943 | 1 |
| Other livestock | 156 | 0 | | 0 | 156 | <1 |
| Machinery | | | | | | |
| Mach. hire, rent/lease | 1,696 | 0 | et i | 34 | 1,730 | 1 |
| Machinery repairs/parts | 6,293 | - 5 | | - 23 | 6,265 | 5 |
| Auto expense (farm share) | 361 | 0 | ĸ | 0 | 361 | <1 |
| Fuel, oil & grease | 4,077 | -21 | | 32 | 4,088 | 3 |
| Livestock | | | | | | |
| Replacement livestock | 1,974 | 0 | ĸ | 0 | 1,974 | 2 |
| Breeding | 1,933 | - 60 | | 6 | 1,879 | 2 |
| Vet & medicine | 2,572 | 76 | | -49 | 2,599 | 2 |
| Milk marketing | 9,623 | 0 | « | -1 | 9,622 | 8 |
| Cattle lease/rent | 396 | 0 | ¢ | 0 | 396 | <1 |
| Other livestock expense | 6,382 | -1 | | 62 | 6,443 | 5 |
| <u>Crops</u> | | | | | | |
| Fertilizer & lime | 4,162 | 433 | | 167 | 4,762 | 4 |
| Seeds & plants | 2,103 | -133 | | -10 | 1,960 | 2 |
| Spray, other crop exp. | 1,776 | 11 | | -81 | 1,706 | 1 |
| <u>Real Estate</u> | | | | | | |
| Land/bldg./fence repair | 1,356 | - 9 | | 2 | 1,349 | 1 |
| Taxes | 1,053 | 0 | « | 313 | 1,366 | 1 |
| Rent & lease | 12,188 | 0 | « | 0 | 12,188 | 10 |
| <u>Other</u> | | | | | | |
| Insurance | 2,408 | 0 | « | 0 | 2,408 | 2 |
| Telephone (farm share) | 538 | 0 | æ | 0 | 538 | <1 |
| Electricity (farm share) | 4,348 | 0 | « | - 50 | 4,298 | 4 |
| Interest paid | 7,057 | 0 | ĸ | 0 | 7,057 | 6 |
| Miscellaneous | <u>1.535</u> | 6 | | 11 | <u> 1,552</u> | _1 |
| Total Operating | \$118,635 | \$903 | | \$843 | \$120,381 | 100 |
| Expansion livestock | \$3,994 | \$0 | « | \$ 0 | 3,994 | |
| Machinery depreciation | | | | | 9,024 | |
| Building depreciation | | | | | 642 | |
| TOTAL ACCRUAL EXPENSES | | | | | \$134,041 | |

CASH AND ACCRUAL FARM EXPENSES 32 Eastern New York Dairy Farm Renters, 1991

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

<u>Change in inventory</u>: An increase in inventory is subtracted in computing accrual expenses because it represents purchased inputs not actually used during the year. A decrease in inventory is added to expenses because it represents the cost of inputs purchased in a prior year and used this year. <u>Changes in prepaid expenses</u> apply to non-inventory categories (noted by « in the tables). Include any expenses that have been paid for in advance of their use, for example, 1992 rent paid in 1991. A positive change is the amount the prepayment account declined from beginning to end year, a negative change indicates an increase in the account.

<u>Change in accounts payable</u>: An increase in payables is added and a decrease is subtracted when calculating accrual expenses.

<u>Accrual expenses</u> are the costs of inputs actually used in this year's production.

Worksheets are provided to enable any dairy farmer to compute his or her accrual farm expenses and compare them with the averages on the previous page.

| Accrual | Cash | | Change in Inventory or Prepaid | Change in | |
|---|------|--------|--------------------------------------|------------------|------------|
| Expense Item | Paid | + | Expense + | Accounts Payable | - Expenses |
| <u>Hired Labor</u> <u>Feed</u> Dairy grain & conc. Dairy roughage Other livestock <u>Machinery</u> Mach. hire, rent/lease | \$ | - | \$* | \$ | \$ |
| Machinery repairs/parts Auto expense (farm share Fuel, oil & grease <u>Livestock</u> Replacement livestock | e) | | « | | |
| Breeding Vet & medicine Milk marketing Cattle lease/rent Other livestock expense <u>Crops</u> | | | « | | |
| Fertilizer & lime Seeds & plants Spray, other crop exp. <u>Real Estate</u> Land/bldg./fence repair Taxes | | | | | |
| Rent & lease <u>Other</u> Insurance Telephone (farm share) | | - - | « | | |
| Electricity (farm share) Electricity (farm share) Interest paid Miscellaneous Total Operating Expansion livestock Machinery depreciation Building depreciation | \$ | | \$« * \$« | \$ | \$ \$ |
| TOTAL ACCRUAL EXPENSES | | | | | \$ |

CASH AND ACCRUAL FARM EXPENSES WORKSHEET

| Receipt Item | Cash Receipts | _ | Change in Inventory | +_ | Change in Accounts Receivable | _ | Accrual <u>Receipts</u> |
|---------------------------|------------------|---|------------------------|----|-------------------------------------|----|----------------------------|
| Milk sales | \$128,015 | | | | \$1,846 | | \$129,861 |
| Dairy cattle | 9,156 | | \$1,529 | | 0 | | 10,685 |
| Dairy calves | 2,700 | | | | 0 | | 2,700 |
| Other livestock | 407 | | . 81 | | 0 | | 488 |
| Crops | 392 | | -1,533 | | 63 | | -1,078 |
| Government receipts | 755 | | 0* | | 0 | | 755 |
| Custom machine work | 336 | | | | 0 | | 336 |
| Gas tax refund | 125 | | | | 0 | | 125 |
| Other | 1,304 | | | | 0 | | 1,304 |
| - Nonfarm noncash capital | L** | (| -)0 | | | (- |)0 |
| Total Accrual Receipts | \$143,190 | | \$ 77 | | \$1,909 | | \$145,176 |

CASH AND ACCRUAL FARM RECEIPTS 32 Eastern New York Dairy Farm Renters, 1991

*Change in advanced government receipts.

**Gifts or inheritances of cattle or crops included in inventory.

<u>Cash receipts</u> include the gross value of milk checks received during the year plus all other payments received from the sale of farm products, services, and government programs. Nonfarm income is not included in calculating farm profitability.

<u>Changes in inventory</u> are calculated by subtracting beginning of year values from end of year values <u>excluding appreciation</u>. Increases in livestock inventory caused by herd growth and/or quality are added and decreases caused by herd reduction and for quality are subtracted. Changes in inventories of crops grown are also calculated. Changes in advanced government receipts are calculated by subtracting the end year balance from the beginning year balance (balances are listed with the current liabilities on the Balance Sheet).

<u>Changes in accounts receivable</u> are calculated by subtracting beginning year balances from end year balances. The January milk check for this December's marketings compared with the previous January's check is included as a change in accounts receivable.

<u>Accrual receipts</u> represent the value of all farm commodities produced and services actually generated by the farmer during the year.

| Receipt Item | Cash <u>Recei</u> pts | _+_ | Change in Inventory | _+ | Change in Accounts <u>Receivable</u> | _ | Accrual Receipts |
|---|--------------------------|-----|------------------------|----|--|------------------------------|---------------------|
| Milk sales Dairy cattle Dairy calves Other livestock Crops Government receipts Custom machine work Gas tax refund Other | \$ | | \$ | | \$ | \$_ - - - - - | |
| Less gifts of cattle & cr Total Accrual Receipts | ops \$ | (- |) \$ | | \$ | (-)_ \$_ | |

CASH AND ACCRUAL FARM RECEIPT WORKSHEET

Profitability Analysis

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

<u>Net farm income</u> is the total combined return to the farm operator(s) and other unpaid family members for their labor, management, and equity capital. It is the farm family's net annual return from working, managing, financing, and owning the farm business. This is not a measure of cash available from the year's business operation. Cash flow is evaluated later in this report.

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

| <u>Item</u> | 32 Dairy Farm Renters | 140 Dairy Farm Owners | My Farm |
|--|--------------------------|--------------------------|---------|
| Total accrual receipts | \$145,176 | \$238,783 | \$ |
| + Appreciation: Livestock | 816 | 1,887 | |
| Machinery | 2,374 | 2,269 | |
| Real Estate | 478 | 8,884 | |
| Other Stock/Cert. | 22 | 331 | |
| = Total Including Appreciation | \$148,866 | \$252,154 | \$ |
| - Total accrual expenses | 134,041 | 219,859 | |
| - Net Farm Income (with appreciation) | \$ 14,825 | \$ 32,295 | \$ |
| Net Farm Income (without appreciation) | \$ 11,135 | \$ 18,924 | \$ |

NET FARM INCOME Eastern New York Dairy Farm Renters and Owners, 1991

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

> RETURN TO OPERATOR(S') LABOR, MANAGEMENT, AND EQUITY Eastern New York Dairy Farm Renters and Owners, 1991

| <u>Item</u> | 32 Dairy Farm Renters | 140 Dairy Farm Owners | My Farm |
|---|--------------------------|--------------------------|---------|
| Net farm income (with appreciation) | \$14,825 | \$32,295 | \$ |
| - Family labor unpaid @ \$1,300 per month | 4,017 | 4,082 | |
| = Return to operators' labor, management | -, | | |
| & equity (with appreciation) | \$10,808 | \$28,213 | \$ |
| - Appreciation | <u>3,690</u> | <u>13,371</u> | |
| = Return to operators' labor, management | Ξ, | | |
| & equity (without appreciation) | \$ 7,118 | \$14,842 | \$ |

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

| | 32 Dairy | 140 Dairy | |
|------------------------------------|---------------------|------------------|----------------|
| <u>Item</u> | <u>Farm Renters</u> | Farm Owners | <u>My Farm</u> |
| Return to operators' labor, mgmt., | | | |
| & equity without appreciation | \$7,118 | \$14,842 | \$ |
| - Real interest @ 5% on average | 6 670 | | |
| equity capital | <u>6,373</u> | <u>22,975</u> | |
| = Labor & Management Income | \$ 745 | \$-8,133 | \$ <u> </u> |
| Labor & Management Income per | | | |
| Operator/Manager | \$ 659 | \$ -5,980 | \$ |

LABOR AND MANAGEMENT INCOME Eastern New York Dairy Farm Renters and Owners, 1991

<u>Return on equity capital</u> measures the net return remaining for the farmer's equity or owned capital after a charge has been made for the owner-operator's labor and management. The earnings or amount of net farm income allocated to labor and management is the opportunity cost of operators' labor and management estimated by the cooperators. Return on equity capital is calculated with and without appreciation. The rate of return on equity capital is determined by dividing the amount returned by the average farm net worth or equity capital. <u>Return on total capital</u> is calculated by adding interest paid to the return on equity capital and then dividing by average farm assets to calculate the rate of return on total capital.

RETURN ON EQUITY CAPITAL AND RETURN ON TOTAL CAPITAL Eastern New York Dairy Farm Renters and Owners, 1991

| | 32 Dairy | 140 Dairy | |
|--|--------------|-------------|----------------|
| Item | Farm Renters | Farm Owners | <u>My Farm</u> |
| Return to operators' labor, mgmt., | | | |
| & equity capital with apprec. | \$10,808 | \$28,213 | \$ |
| - Value of operators' labor & mgmt. | 22,500 | 27,255 | |
| - Return on equity capital with apprec. | \$-11,692 | \$ 958 | \$ |
| + Interest paid | 7,057 | 17,142 | |
| - Return on total capital with apprec. | \$-4,635 | \$18,100 | \$ |
| Return on equity capital without apprec. | \$-15,382 | \$-12,413 | \$ |
| Return on total capital without apprec. | \$-8,325 | \$4,729 | \$ |
| Rate of return on average equity capital | L: | | |
| with appreciation | -9.2% | 0.2% | £ |
| without appreciation | -12.1% | -2.78 | |
| Rate of return on average total capital | | | |
| with appreciation | -2.1% | 2.7% | ક |
| without appreciation | -3.7% | 0.7% | \$ |

Farm and Family Financial Status

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

| | | Farm Liabilities | | |
|---------------------------------|------------------|---------------------|---------------|----------------|
| <u>Farm Assets Jan, 1 I</u> | <u>Dec. 31</u> | & Net Worth | Jan. 1 | <u>Dec. 31</u> |
| Current | | Current | | |
| Farm cash, checking | | Accounts payable | \$ 4,353 | \$ 5,179 |
| | 2,603 | Operating debt | | 1,852 |
| Accounts rec. 9,685 | 11,594 | Short-term | 1,931 | 2,610 |
| Prepaid exp. 0 | 0 | Advanced govt. rec | | · |
| | 28,198 | Total | \$ 8,871 | \$ 9,641 |
| Total \$42,735 \$ | 42,395 | | | |
| Intermediate | | <u>Intermediate</u> | | |
| | 60,531 | Structured debt | | |
| leased 524 | 411 | 1-10 years | \$ 62,582 | \$ 67,274 |
| Heifers 21,711 | 21,895 | Financial lease | | |
| Bulls/other lvstk. 823 | 913 | (cattle/mach.) | 2,533 | 2,169 |
| Mach./eq. owned 74,848 | 76,258 | Farm Credit stock | 601 | <u> </u> |
| Mach./eq. leased 2,009 | 1,758 | | | |
| Farm Credit stock 601 | 654 | Total | \$ 65,716 | \$ 70,097 |
| Other stock/cert. <u>1,787</u> | 1,763 | | | |
| Total \$160,681 \$1 | 164,183 | <u>Long Term</u> | | |
| Long-Term | | Structured debt | | |
| Land/buildings: | | ≥10 years | \$ 19,163 | \$ 18,766 |
| owned \$ 18,311 \$ | 18,862 | Financial lease | | |
| leased | 203 | (structures) | 370 | 203 |
| Total \$ 18,681 \$ | 19,065 | Total | \$ 19,533 | \$ 18,969 |
| Total Farm Assets \$222,097 \$2 | 225,643 | Total Farm Liab. | \$ 94,120 | \$ 98,707 |
| | | FARM NET WORTH | \$127,977 | \$126,936 |
| (Average for 20 farms reporting | g) | Nonfarm Liabiliti | es* | |
| Nonfarm Assets* Jan. 1 | | | | <u>Dec. 31</u> |
| | | | | |
| Personal cash, chkg. | A A A A 7 | Nonfarm Liab. | \$10,933 | |
| & savings \$ 1,743 | \$ 2,237 | NONFARM NET WORTH | \$19,592 | \$23,956 |
| Cash value life ins. 1,870 | 1,946 | | | D 01 |
| Nonfarm real estate 12,825 | 13,425 | FARM & NONFARM* | <u>Jan. 1</u> | <u>Dec. 31</u> |
| Auto (personal sh.) 4,433 | 4,575 | Total Assets | \$252,622 | \$258,879 |
| Stocks & bonds 150 | 155 | Total Liabilities | 105,053 | <u>107,987</u> |
| Household furn. 7,525 | 8,569 | | | |
| All other 1.980 | 2,330 | TOTAL FARM & NON- | | |
| Total Nonfarm \$30,525 | \$33,236 | FARM NET WORTH | \$147,569 | \$150,892 |

| 1991 | FARM I | BUSINES | SS & | NONFARM | BALA | NCE | SHEET |
|------|--------|---------|------|---------|------|------|-------|
| 32 | Easter | rn New | York | Dairy | Farm | Rent | ers |

*Assumes that average nonfarm assets and liabilities for the nonreporting farms were the same as for those reporting.

Financial lease obligations are included in the balance sheet. The present value of all future payments is listed as a liability since the farmer is committed to make the payments by signing the lease. The present value is also listed as an asset, representing the future value the item has to the business. Advanced government receipts are included as current liabilities. Government payments received in 1991 that are for participation in the 1992 program are the end year balance and payments received in 1990 for participation in the 1991 program are the beginning year balance.

| Farm Assets | <u>Jan. 1</u> | Dec, 31 | Farm Liabilities & Net Worth | <u>Jan. 1</u> | Dec. 31 |
|---|---------------|----------------|---|---------------|----------------|
| <u>Current</u> Farm cash, checking & savings Accounts rec. | ; | | <u>Current</u> Accounts payable Operating debt: | | |
| Prepaid expense Feed & supplies Total | | | Short Term: | | |
| <u>Intermediate</u> Dairy cows: owned leased | | | Adv. govt. rec. Total <u>Intermediate</u> | | |
| Heifers Bulls/other lvstk. Mach./eq. owned Mach./eq. leased Farm Credit stock | <u> </u> | | Financial lease | | |
| Other stock/cert. Total | | | financial lease (cattle/mach.) Farm Credit stock Total <u>Long-Term</u> | | |
| <u>Long-Term</u> Land/buildings: owned leased | | | | _ | |
| Total | | <u> </u> | Financial lease (structures) Total | | |
| Total Farm Assets | | | Total Farm Liab. FARM NET WORTH | | |
| Nonfarm Assets | <u>Jan. 1</u> | <u>Dec. 31</u> | Nonfarm Liabilities & Net Worth | 5 Jan. 1 | <u>Dec. 31</u> |
| Personal cash, chkg & savings Cash val. life ins. Nonfarm real est. | | | Nonfarm Liab.: | | |
| Auto (pers. share) Stocks & bonds Household furn. All other Total Nonfarm | | | Total Nonfarm Liabilities Nonfarm | | |
| TOTAL FARM & NONFAR | | | Net Worth Jan. 1 | Dec | . 31 |
| Total Farm & Nonfar Less Total Farm & M Farm & Nonfarm Net | Nonfarm Li | abilities | | | |

1991 FARM BUSINESS & NONFARM BALANCE SHEET

Date ____

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

| | 32 Dairy | 140 Dairy | |
|---|--------------|-------------|----------------|
| Item | Farm Renters | Farm Owners | <u>My Farm</u> |
| <u>Financial Ratios - Farm</u> : | | | |
| Percent equity | 56% | 69% | 8 |
| Debt/asset ratio: total | 0.44 | 0.31 | |
| long-term | 0.99 | 0.31 | |
| intermediate/current | 0.39 | 0.31 | |
| Change in Net Worth: | | | |
| Without appreciation | \$-4,731 | \$-2,227 | \$ |
| With appreciation | \$-1,041 | \$11,144 | • |
| Farm Debt Analysis: | • • | | |
| Accounts payable as % of total debt | 5% | 48 | ક |
| Long-term liabilities as a % of total de | ebt 19% | 51% | |
| Current & inter. liab. as a % of total of | debt 81% | 49% | * |
| Farm Debt Levels Per Cow: | | • | |
| Total farm debt | \$1,645 | \$2,332 | \$ |
| Long-term debt | \$316 | \$1,185 | • |
| Intermediate & current debt | \$1,329 | \$1,147 | |

BALANCE SHEET ANALYSIS Eastern New York Dairy Farm Renters and Owners, 1991

Farm inventory balance is an accounting of the value of machinery and equipment used on the balance sheet and the changes that occur from the beginning to end of year. Changes in the livestock inventory are included in the dairy analysis. Net investment indicates whether the capital stock is being expanded (positive) or depleted (negative).

> FARM MACHINERY AND EQUIPMENT INVENTORY BALANCE Eastern New York Dairy Farm Renters and Owners, 1991

| Item | 32 Dairy Farm Renters | 140 Dairy Farm Owners | My Farm |
|---------------------|--------------------------|--------------------------|---------|
| | | | |
| Value beg. of year | \$74,848 | \$113,829 | \$ |
| Purchases | \$8,425 | \$10,704 | \$ |
| + Nonfarm noncash | • • | | |
| transfer | 0 | 14 | + |
| - Sales | 364 | 667 | - |
| - Depreciation | 9,024 | 12,208 | - |
| - Net investment | -963 | -2,157 | =+ |
| + Appreciation | 2,374 | 2,269 | . + |
| - Value end of year | \$76,258 | \$113,942 | \$ |

Cash Flow Statement

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

The <u>annual cash flow statement</u> is structured to compare all the cash inflows with all the cash outflows for the year. A complete list of cash inflows and cash outflows are identified in the following table. By definition, total cash inflows must equal total cash outflows when beginning and ending balances are included. Any imbalance is, therefore, the error from incorrect accounting of cash inflows and cash outflows.

| Item | | 32 Dairy Farm Renters | 140 Dairy Farm Owners | My Farm |
|---|---|--------------------------|--------------------------|------------|
| <u>Cash Inflows</u> | | | | |
| Beg. farm cash, che | ecking & savings | \$ 2,417 | \$ 4,052 | \$ |
| Cash farm receipts | | 143,191 | 232,456 | |
| Sale of assets: Mad | chinery | 364 | 667 | |
| Rea | al estate | 0 | 3,016 | |
| Oth | ner stock & cert. | 106 | 193 | |
| Money borrowed (int | cermediate & long-term |) 18,452 | 28,027 | |
| Money borrowed (sho | ort-term) | 2,417 | 1,616 | |
| Increase in operati | ing debt | 0 | 949 | |
| Nonfarm income | | 3,103 | 4,386 | |
| Cash from nonfarm o used in the bus: | | 1,459 | 2,584 | . <u> </u> |
| Money borrowed - no | onfarm | 0 | <u> </u> | |
| Total | | \$171,509 | \$278,408 | \$ |
| <u>Cash Outflows</u> | | | | |
| Cash farm expenses | | \$118,635 | \$195,212 | \$ |
| Capital purchases: | Expansion livestock | 3,994 | 1,326 | |
| | Machinery | 8,425 | 10,704 | |
| | Real estate | 882 | 7,712 | |
| | Other stock & cert. | 60 | 178 | |
| Principal payments | (inter. & long-term) | 14,157 | 28,596 | |
| Principal payments | (short-term) | 1,738 | 2,013 | |
| Decrease in operat: | ing debt | 735 | 0 | |
| Personal withdrawa including nonfarm | ls & family expenditur n debt payments | es, 20,181 | 29,049 | |
| Ending farm cash, o | checking & savings | 2,603 | 3,531 | |
| Total | | \$171,410 | \$278,323 | \$ |
| Imbalance (error) | | \$ 99 | \$85 | \$ |

ANNUAL CASH FLOW STATEMENT Eastern New York Dairy Farm Renters and Owners, 1991

Repayment Analysis

The second step in cash flow analysis is to compare the debt payments planned for the last year with the amount actually paid. The measures listed below provide a number of different perspectives on the repayment performance of the business. However, the critical question to many farmers and lenders is whether planned payments can be made in 1992. The cash flow projection worksheet on the next page can be used to estimate repayment ability, which can then be compared to planned 1992 debt payments shown below.

| | | <u> </u> | | | | | |
|----------------------|----------------|----------------|---------------|----------------|---------------|---------------------|--|
| | | <u>Average</u> | | | <u> </u> | | |
| | <u>1991 Pa</u> | <u>yments</u> | Planned | <u>1991 Pa</u> | <u>yments</u> | Planned | |
| <u>Debt Payments</u> | <u>Planned</u> | Made | <u> 1992</u> | Planned | Made | <u> 1992 </u> | |
| Long-term | \$ 2,416 | \$ 640 | \$ 600 | \$ | Ş | \$ | |
| Intermediate-term | 18,433 | 19,412 | 15,862 | | | | |
| Short-term | 2,656 | 2,360 | 1,749 | | | | |
| Operating (net red. |) 1,280 | 1,112 | 404 | | | | |
| Accounts payable | | | | | | | |
| (net reduction) | 0 | <u>71</u> | 95 | | | | |
| Total | \$24,786 | \$23,595 | \$18,709 | \$ | \$ | \$ | |
| Per cow | \$400 | \$381 | | s | s | | |
| Per cwt. 1991 milk | \$2.38 | \$2.26 | | \$ | \$ | - | |
| Percent of total | • | • | | • | • | - | |
| 1991 receipts | 17% | 16% | | | | | |
| Percent of 1991 | | | | | | _ | |
| milk receipts | 18% | 17% | | | | | |
| • | | | | | | | |

| | FARM DEB | T PAYMENTS | PLANNED | |
|---------|-------------|------------|---------------|-------|
| Same 22 | Eastern New | York Dairy | Farm Renters, | 1991* |

*Farms that completed Dairy Farm Business Summaries for both 1990 and 1991.

The <u>cash flow coverage ratio</u> measures the ability of the farm business to meet its planned debt payment schedule. The ratio shows the percentage of planned payments that could have been made with last year's available cash flow. Farmers that did not participate in DFBS last year will find in their report a cash flow coverage ratio based on planned debt payments for 1992.

| | CASH | FLOW COV | ERAGE RAT | 017 | | |
|-------------|---------|-----------|-----------|-----|---------|------|
| Eastern New | York Da | airy Farm | Renters | and | Owners, | 1991 |

| ItemF | Same 22 arm Renters | Same 106 Farm Owners | <u>My Farm</u> |
|---|------------------------|-------------------------|----------------|
| Cash farm receipts | \$150,085 | \$231,433 | \$ |
| - Cash farm expenses | 126,228 | 193,367 | - <u> </u> |
| + Interest paid | 6,622 | 16,613 | |
| - Net personal withdrawals from farm* | 18,126 | 24,634 | • |
| (A) = Amount Available for Debt Service | \$ 12,353 | \$ 30,045 | \$ |
| (B) - Debt Payments Planned for 1991 | | | |
| (as of December 31, 1990) | \$24,786 | \$39,053 | \$ |
| (A + B) = Cash Flow Coverage Ratio for 19 | 91 0.50 | 0.77 | |

*Personal withdrawals and family expenditures less nonfarm income and nonfarm money borrowed. If family withdrawals are excluded the cash flow coverage ratio will be incorrect.

| | 32 Dairy | | My Farm | Expected | 1992 |
|-------------------------------|--------------------|----------------|---------|----------|------------|
| Item | <u>Farm Rente:</u> | | | | Projection |
| | (per cow) | | | | |
| Average number of cows | 59 | | | | |
| Accrual Oper. Receipts | | | | • | |
| Milk | \$2,186 | \$ | \$\$ | | \$ |
| Dairy cattle | 180 | | | | · |
| Dairy calves | 45 | | | | |
| Other livestock | 8 | | | | |
| Crops | -18 | | | | |
| Misc. receipts | <u> 42</u> | | | | |
| Total | \$2,444 | \$ | \$ | | \$ |
| <u>Accrual Oper, Expenses</u> | | | | | |
| Hired labor | \$ 151 | \$ | \$ | | \$ |
| Dairy grain & conc. | 603 | | | | · |
| Dairy roughage | 16 | | | | |
| Other lvstk. feed | 3 | | | | |
| Mach. hire/rent/lease | 29 | | | | |
| Mach. repair/parts & auto | 112 | | | | |
| Fuel, oil & grease | 69 | | | | |
| Replacement lvstk. | 33 | | | | |
| Breeding | 32 | | | | |
| Vet & medicine | 44 | | | | |
| Milk marketing | 162 | | | | |
| Cattle lease | 7 | | | | |
| Other lvstk. exp. | 108 | | | | |
| Fertilizer & lime | 80 | | | | |
| Seeds & plants | 33 | | | | |
| Spray/other crop exp. | 29 | | | | |
| Land, bldg.,fence repair | 23 | | | | |
| Taxes | 23 | | | | |
| Real est. rent/lease | 205 | | | | |
| Insurance | 41 | = | | | |
| Utilities | 81 | | | | |
| Miscellaneous | 26 | | | | |
| Total Less Interest Paid | \$1,908 | \$ | \$ | \$ | \$ |
| Net Accrual Operating Incom | <u>ne</u> (t | otal) | | | |
| (without interest paid) | \$3 | 1,854 | \$ | | \$ |
| - Change in lvstk./crop in | | 77 | · | | |
| - Change in accts. rec. | | 1,909 | | | |
| + Change in feed/supply in | v.* | 903 | | | |
| + Change in accts. payable | | <u> 843</u> | | | |
| NET CASH FLOW | | 1,614 | \$ | | \$ |
| - Net personal withdrawals | | | | | |
| family expenditures | | <u>7,078</u> | | | |
| Available for Farm Debt Pag | | | | | |
| & Investments | \$1 | 4,536 | \$ | | \$ |
| - Farm debt payments | | <u>3,386</u> | | | |
| Available for Farm Investme | ents \$- | 8,850 | \$ | | \$ |
| - Capital purchases: cattle | | | | | |
| machinery & improvements | | 3,361 | \$ | \$ | \$ |
| Additional Capital Needed | | | \$ | | \$ |
| - | | | | | _ |

ţ

*Includes change in prepaid expenses. **Excludes change in interest account payable.

Cropping Program Analysis

The cropping program is an important part of the dairy farm business and sometimes it is overlooked and neglected. A complete evaluation of available land resources, how they are being used, how well crops are producing and what it costs to produce them, is required to evaluate alternative cropping and feed purchasing choices.

| Item | Average of Farms Reporting | | | My Farm | | |
|----------------------|----------------------------|--------------|--------------------|--------------|-----------|--|
| <u>Crop Yields</u> | <u>Farms</u> | <u>Acres</u> | <u>Prod/Acre</u> * | <u>Acres</u> | Prod/Acre | |
| Hay crop | 30 | 141 | 2.38 tn DM | | tn DM | |
| Corn silage | 27 | 51 | 10.95 tn | | tn | |
| - | | | 3.81 tn DM | | tn DM | |
| Other forage | 0 | 0 | 0.00 tn DM | | tn DM | |
| Total forage | 30 | 187 | 2.62 tn DM | | tn DM | |
| Corn grain | 12 | 59 | 86.61 bu | | bu | |
| Oats | 0 | 0 | 0.00 bu | | bu | |
| Wheat | 0 | 0 | 0.00 bu | | bu | |
| Other crops | 1 | 40 | | | | |
| Tillable pasture | 11 | 33 | | | | |
| Idle | 6 | 42 | | | | |
| Total Tillable Acres | 32 | 218 | | | | |

LAND RESOURCES AND CROP PRODUCTION 32 Eastern New York Dairy Farm Renters, 1991

*1991 average yields for 140 dairy farm owners in Eastern New York included: all hay crops, 2.2 tons dry matter per acre; corn silage, 13.5 tons per acre.

Average crop acres and yields compiled for the region are for the number of farms reporting each crop. Yields of forage crops have been converted to tons of dry matter using dry matter coefficients reported by the farmers. Grain production has been converted to bushels of dry grain equivalent based on dry matter information provided.

The following measures of crop management indicate how efficiently the land resource is being used and how well total forage requirements are being met.

| Item | 32 Dairy Farm Renters | 140 Dairy Farm Owners | My Farm |
|--|--------------------------|--------------------------|---------|
| Total tillable acres per cow | 3.67 | 3.12 | |
| Total forage acres per cow | 2.95 | 2.65 | |
| Harvested forage dry matter, tons per co | w 7.72 | 7.92 | |

CROP MANAGEMENT FACTORS Eastern New York Dairy Farm Renters and Owners, 1991

Average fertilizer and lime, seeds and plants, and spray and other crop expenses have been computed per tillable acre for all farms in the first column of the table below. Average hay crop and corn crop related expenses are from the limited number of farms allocating crop expenses. Additional expense items such as fuels, labor, and machinery repairs are not included.

| | Total/ | Hay (| Crop | A11 | Corn Sil. | Corn Grain |
|----------------------------|-------------------|------------------------|-----------------------|------------------|------------|--------------|
| | Till . | Per | Per | Corn | Per Ton | Per Dry |
| Expense | Acre | Acre | Ton DM | Per Acre | DM | Shell Bu. |
| <u>32 Dairy Farm Rente</u> | *** | A | 3 Forma | Poporting | Individual | Crop Costa |
| | | - | | | | - |
| Fertilizer & lime | | • | - | \$ 76.31 | • | • |
| Seeds & plants | 8.99 | 4.55 | 2.19 | 26.63 | 7.66 | 0.39 |
| Spray & other crop | | | | | | |
| expense | <u> 7,82 </u> | <u>4.25</u> | 2.04 | <u> 20.76</u> | <u> </u> | 0.31 |
| Total | \$38.65 | <u>4.25</u> \$17.32 | <u>2.04</u> \$8.33 | \$123.70 | | \$1.82 |
| 1/0 | | | | . | | |
| 140 Dairy Farm Owne | | | | | | l Crop Costs |
| Fertilizer & lime | \$24.86 | \$14.77 | \$ 6.90 | \$42.27 | • | \$0.41 |
| Seeds & plants | 10.42 | 6.00 | 2.80 | 19.72 | 4.68 | 0.19 |
| Spray & other crop | | | | | | |
| expense | <u>9.57</u> | <u>5.28</u> | 2.47 | 19.67 | 4.67 | 0.19 |
| Total | \$44.85 | \$26.05 | \$12.17 | \$81.66 | | \$0.79 |
| <u>My Farm</u> : | | | | | | |
| Fertilizer & lime | s | \$ | \$ | \$ | \$ | ŝ |
| Seeds & plants | • | • | · | • | • | • |
| Spray & other crop | | _ _ | | | | |
| expense | | | | | | |
| Total | \$ | \$ | \$ | \$ | \$ | \$ |

CROP RELATED ACCRUAL EXPENSES Eastern New York Dairy Farm Renters and Owners, 1991

Most machinery costs are associated with crop production and should be analyzed with the crop enterprise. Total machinery expenses include the major fixed costs (interest and depreciation), as well as the accrual operating costs. Although machinery costs have not been allocated to individual crops, they are shown below per total tillable acre.

ACCRUAL MACHINERY EXPENSES Eastern New York Dairy Farm Renters and Owners, 1991

| · · · · | <u>Average Per T</u> | <u>'illable Acre</u> | My Farm | | |
|----------------------------|----------------------|----------------------|---------|---------|--|
| | 32 Dairy | 140 Dairy | Total | Per Til | |
| Item | Farm Renters | Farm Owners | | Acres | |
| Fuel, oil & grease | \$ 18.75 | \$ 24.00 | \$ | \$ | |
| Machinery repairs & parts | 28.74 | 40.29 | | | |
| Machine hire, rent & lease | 7.94 | 8.08 | | | |
| Auto expense (farm share) | 1.66 | 2.97 | | | |
| Interest (5%) | 17.33 | 20.41 | | | |
| Depreciation | 41.39 | 43.76 | | | |
| Total | \$115.81 | \$139.51 | \$ | \$ | |

Dairy Program Analysis

Analysis of the dairy enterprise can tell a great deal about the strengths and weaknesses of the dairy farm business. Information on this page should be used in conjunction with DHI and other dairy production information. Changes in dairy herd size and market values that occur during the year are identified in the table below. The change in inventory value without appreciation is attributed to physical changes in herd size and quality. This increase in inventory is included as an accrual farm receipt when calculating profitability without appreciation impacts.

| | Da | <u>iry Cows</u> | | | | Heifers | | |
|--------------------------------|------------|-----------------|-----|----------|-------|----------|----------|--------------|
| | | - | | Bred | | Open | <u> </u> | <u>alves</u> |
| Item | <u>No,</u> | Value | No. | Value | No. | Value | No. | Value |
| <u>32 Dairy Farm Renters</u> : | | | | | | | | |
| Beg. year (owned) | 57 | \$58,378 | 17 | \$13,106 | 11 | \$5,095 | 13 | \$3,510 |
| + Change w/o apprec. | - | 1,665 | - | -698 | | 655 | | · 93 |
| + Appreciation | | 488 | | 247 | | 44 | | 29 |
| End year (owned) | 58 | \$60,531 | 16 | \$12,655 | 12 | \$5,794 | 13 | \$3,446 |
| End incl. leased | 60 | • / | | • • | | • • | | • • |
| Average number | 59 | | 40 | (all age | grou | ups) | | |
| <u>140 Dairy Farm Owners</u> : | | | | | | | | |
| Beg. year (owned) | 90 | \$92,972 | 23 | \$20,019 | 23 | \$12,023 | 23 | \$5,904 |
| + Change w/o apprec. | | 1,652 | | 1,431 | | 987 | | 43 |
| + Appreciation | | 1,370 | | 68 | | 256 | | 156 |
| End year (owned) | 91 | \$95,994 | 25 | \$21,518 | 25 | \$13,266 | 24 | \$6,103 |
| End incl. leased | 91 | • • | | • • | | • • | | • • |
| Average number | 90 | | 69 | (all age | grou | ps) | | |
| <u>My Farm:</u> | | | | | | | | |
| Beg. of year (owned) | | Ş | | \$ | | \$ | | Ŝ |
| + Change w/o apprec. | | ¥ | | ¥ | | ¥ | | ¥ |
| + Appreciation | | | | | | | | |
| End of year (owned) | | \$ | | \$ | | \$ | | Ś |
| End including leased | | т | | т | | ¥ | | т <u> </u> |
| Average number | | | | (all age | grou | ips) | | |
| | | | | (age | 6- 00 | | | |

DAIRY HERD INVENTORY Eastern New York Dairy Farm Renters and Owners, 1991

Total milk sold and milk sold per cow are extremely valuable measures of productivity on the dairy farm. These measures of milk output are based on pounds of milk marketed during the year. Farm managers on DHI should compare milk sold per cow with rolling herd average on the test date nearest December 31.

MILK PRODUCTION Eastern New York Dairy Farm Renters and Owners, 1991

| <u>Item</u> | 32 Dairy Farm Renters | 140 Dairy Farm Owners | <u>My Farm</u> |
|--|--------------------------|--------------------------|----------------|
| Total milk sold, lbs. Milk sold per cow, lbs. | 982,628 16,550 | 1,588,776 17,746 | |
| Average milk plant test, % butterfat | 3.70 | 3.71 | |

The cost of producing milk has been compiled using the whole farm method, and is featured in the following table. Accrual receipts from milk sales are compared with the accrual costs of producing milk per hundredweight of milk. Using the whole farm method, <u>operating costs of producing milk</u> are estimated by deducting nonmilk accrual receipts from total accrual operating expenses plus expansion livestock purchased. <u>Total costs of producing milk</u> include the operating costs plus depreciation on machinery and buildings, the value of unpaid family labor, the value of operator(s') labor and management, and an interest charge for using equity capital. Note that the cost of labor, management, and equity capital has been excluded in the intermediate compilation.

ACCRUAL RECEIPTS FROM DAIRY AND COST OF PRODUCING MILK Eastern New York Dairy Farm Renters and Owners, 1991

| | 32 R | enters | 140 (| Dwners | My | Farm |
|--|------------------------|----------|------------------------|--------------------|----|----------|
| <u>Item</u> | <u>Total</u> | Per Cwt. | Total | Per Cwt. | | Per Cwt. |
| Accrual Costs of <u>Producing Milk</u> Operating costs Total costs with- out op(s') labor, | \$109,060 | \$11.10 | \$170,945 | \$10.76 | \$ | \$ |
| mgmt. & capital Total Costs | \$122,743 \$151,616 | • | \$194,464 \$244,694 | \$12.24 \$15.40 | | \$ \$ |
| <u>Accrual Receipts</u> <u>from Milk</u> | \$129,861 | \$13.22 | \$209,306 | \$13.17 | \$ | \$ |

The accrual operating expenses most commonly associated with the dairy enterprise are listed in the table below. Evaluating these costs per unit of production enables the comparison of different size dairy farms for strengths and areas for improvement.

DAIRY RELATED ACCRUAL EXPENSES Eastern New York Dairy Farm Renters and Owners, 1991

| | <u>Average Per</u> | My Farm | |
|-------------------------------|--------------------|------------|---------|
| <u>Item</u> | 32 Renters | 140 Owners | Per Cwt |
| Purchased dairy grain & conc. | \$3.64 | \$3.95 | s |
| Purchased dairy roughage | 0.10 | 0.08 | · |
| Total Purchased Dairy Feed | \$3.74 | \$4.03 | \$ |
| Purchased grain & conc. | · | • | · |
| as % of milk receipts | 28% | 30% | s |
| Purchased feed & crop exp. | \$4.60 | \$4.81 | \$ |
| Purchased feed & crop exp. | | | |
| as % of milk receipts | 35% | 37% | 5 |
| Breeding | \$0.19 | \$0.21 | \$ |
| Veterinary & medicine | 0.26 | 0.32 | |
| Milk marketing | 0.98 | 0.94 | |
| Cattle lease | 0.04 | 0.01 | |
| Other livestock expense | 0.66 | 0.62 | |

Capital and Labor Efficiency Analysis

Capital efficiency factors measure how intensively the capital is being used in the farm business. Measures of labor efficiency are key indicators of management's success in generating products per unit of labor input.

| Per Worker | Per | Per Tillable Acre |
|---------------|--|---|
| | 00₩ | |
| \$113 238 | \$3 760 | \$1,027 |
| | . , | 355 |
| • | • | 555 |
| | | |
| \$234,316 | \$7,494 | \$2,404 |
| 40,265 | 1,288 | 413 |
| 2. | 66 | |
| | | |
| \$ | \$ | \$ |
| | | |
| | | |
| | Worker \$113,238 39,169 1. \$234,316 40,265 2. | Worker Cow \$113,238 \$3,769 39,169 1,304 1.50 \$234,316 \$234,316 \$7,494 40,265 1,288 2.66 \$2.66 |

CAPITAL EFFICIENCY Eastern New York Dairy Farm Renters and Owners, 1991

LABOR FORCE ANALYSIS Eastern New York Dairy Farm Renters and Owners, 1991

| | <u>32</u> R | enters | 1400 | wners | My | Farm |
|----------------------|-------------|---------|--------------|-----------------|----------|---------------|
| | | Per | | Per | | Per |
| Efficiency | <u> </u> | Worker | <u>Total</u> | <u>Worker</u> | <u> </u> | <u>Worker</u> |
| Cows, average number | 59 | 30 | 90 | 31 | | |
| Milk sold, pounds | 982,628 | 497,034 | 1,588,776 | _ | | |
| Tillable acres | 218 | 110 | 279 | [′] 97 | | |
| Work units | 625 | 316 | 943 | 329 | | |
| | 32 R | enters | <u> </u> | wners | | Farm |
| | | Per | | Per | | Per |
| Labor Costs | | Cow | <u>Total</u> | Cow | <u> </u> | <u>Cow</u> |
| Value of operator(s) | | | | | | |
| labor* | \$17,60 | 2 \$296 | \$21,177 | \$237 | Ś | \$ |
| Family unpaid* | 4,01 | | 4,082 | . 46 | · | - ' |
| Hired | 8,94 | 6 151 | 20,317 | 227 | | |
| Total Labor | \$30,56 | 5 \$515 | \$45,576 | \$509 | \$ | \$ |
| Machinery Cost | \$25,24 | 7 \$425 | \$38,922 | \$435 | \$ | \$ |
| Total Labor & Mach. | \$55,81 | 2 \$940 | \$84,498 | \$944 | \$ | \$ |

*\$1,300 per month.

PROGRESS OF THE FARM BUSINESS

Comparing your business with average data from regional DFBS cooperators that participated in both of the last two years is one part of a business checkup. It is equally important for you to determine the progress your business has made over the past two or three years and to set targets or goals for the future.

> PROGRESS OF THE FARM BUSINESS Same 22 Eastern New York Dairy Farm Renters, 1990 & 1991

| | Ave | rage | | <u> </u> | | |
|-----------------------------|-------------|-----------|----------|----------|----------|--|
| <u>Selected Factors</u> | 1990 | 1991 | 1990 | 1991 | _Goal | |
| | | | | | | |
| <u>Size of Business</u> | | | | | | |
| Average number of cows | 65 | 62 | <u> </u> | | | |
| Average number of heifers | | 41 | | | | |
| | L,026,697 🔅 | L,042,900 | | | | |
| Worker equivalent | 2.24 | 2.02 | | | | |
| Total tillable acres | 194 | 199 | | | | |
| <u>Rates of Production</u> | | | | | | |
| Milk sold per cow, lbs. | 15,829 | 16,821 | | | | |
| Hay DM per acre, tons | 2.5 | 2.4 | | | | |
| Corn silage per acre, tons | | 11 | | | | |
| | | | | | | |
| Labor Efficiency | 00 | 1 | | | | |
| Cows per worker | 29 | 31 | | | | |
| Milk sold per worker, lbs. | 457,836 | 517,466 | <u> </u> | | | |
| <u>Cost Control</u> | | | | | | |
| Grain & conc. purchased | | | | | | |
| as % of milk sales | 26% | 28% | £ | ą | 5 | |
| Dairy feed & crop exp. | | | | | | |
| per cwt. milk | \$4.95 | \$4.74 | \$ | \$ | \$ | |
| Labor & mach. costs/cow | \$947 | \$910 | \$ | \$ \$ | \$ | |
| Conitol Efficiency | | | | | | |
| Capital Efficiency* | 62 COF | <u> </u> | <u>^</u> | ^ | <u>^</u> | |
| Farm capital per cow | \$3,685 | \$3,892 | » | \$ \$ | - シ | |
| Mach. & equip. per cow | \$1,203 | \$1,410 | \$ | ۶ | _ \$ | |
| Capital turnover, years | 1.3 | 1.6 | | | | |
| <u>Profitability</u> | | | | | | |
| Net farm income w/o apprec. | • • | | \$ | \$ \$ | _ \$ | |
| Net farm income w/apprec. | \$31,511 | \$15,280 | \$ | \$ | \$ | |
| Labor & mgmt. income | | | | | | |
| per operator/manager | \$14,921 | \$387 | \$ | \$ | \$ | |
| Rate of return on equity | - | - | | · | | |
| capital w/apprec. | 2.4% | -8.6% | 8 | ę | b | |
| Rate of return on all | | | | | | |
| capital w/apprec. | 4.6% | -2.4% | ¥ | ٩٩ | t | |
| Financial Summary | | | | | | |
| Farm net worth | \$140 684 | \$145 175 | Ś | \$ | Ś | |
| Debt to asset ratio | 0.43 | 0.39 | | | | |
| Farm debt per cow | | | è | \$ | <u>د</u> | |
| raim debi per cow | \$1,666 | \$1,504 | <u>ې</u> | ₹ | _ Ÿ | |

*Average for the year.

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