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A.E. Ext. 86-34

NEW YORK DAIRY-CASH CROP SUMMARY, 1985

| INCOME STATS Cash C Naceinta + J 5 151880 9540 1630 0 | Continued In Canora In Accounts Accounts Interve Interve 14000 -1000 1400 -000 14485 0 | Acortai- = Becelory \$133675 \$13367 1330 1300 1200 1205 230 230 250 160 | | 1 |
|---|---|---|--|---|
| 400 230 250 | FARM NO. 18001 | 3 THCORE BYATEMENT | JANUARY 30, 1980 | |
| 100 | | Cash Change in J | hange in Accounts Accrual Payabla** = Expanses | |
| s Lawant | EXPENSES Bired Labor | \$ 5190 | 0 \$ 5200 | |
| Inventorre | Food | - 180 | 6000 83730 | |
| | Other livestock | DEPARTMENT OF AGRICULTU CORNELL UNIVERSITY | TENSION | ***** |
| ATOR(S) C | Hach hirs, rent/lesse Hachinery repairs/par | Name Sam Fanman | | |
| | Auto arpanse (C.S.) Fuel, oil à granse | Address Rbl Bes / | 2 | |
| nual Expenses | Livestock Replacement livestock | - Daisytiman, I | 1 <u>y</u> | ******** |
| & EQUITE CAR | Veterinary & medicine Hilk marketing Cattle lease/rent | 1985 0 | TRY NAME | ******* |
| Abor Unpala | Other livestock appe | FARM NO. 38001 PROGRA | AND TAKE SUBTREES ST | DIRANY |
| OFERATOR'S | Fartilizar & lina Souda & plants | SELECTED FACTORS | S OF THE PARK BUNTH | LANUARY 30, 1986 |
| to Open squi | Real Estate | Avg # of core | 191 | <u>1984</u> <u>1985</u> |
| A RANAGEOUT | Taxes Tosurance | Milk sold, ibs. Worker aquiv. | 5 | 5 67 77 |
| 1.00 OFERATOR | Rent & 18654 | Rates of Production | 2.7 | 964800 50 2.75 1116500 |
| TO ROUITS to Operate | Other Telephone (farm a | Milk sold per cow, ibs. | | 260 260 |
| ue of operator | Niscellaneous | Labor Efficience | 2.8 | 14400 14500 |
| TURN ON ROULL | TOTAL OPERATIN | Kilk sold per worker lbs | | 14 14 |
| | Expansion livestor Machinery deprecia Building deprecia | Cost Control Grain & conc. purch. as & Dairy feed & crop exp. pay Labor and mach | enesse and | 35083# 406000 |
| | •Nat amount of pu the year. A deal | Capital Efficiency (average : Parm capital per cow Real estate per cow | Gow 8 786 for year) | 3 4.17 5 346 5 868 5 5.46 831 |
| | that will degree **Unpaid items or the year. | Capital furnovar, years | cow 5754 2346 1362 2,4 | 5719 2351 5507 1336 1336 1175 |
| | | Het farm income w/o appreciat Labor & management income Rate return on equity canito | ion 8 1200 1 | -6426 0 18557 -5861 0 18557 |
| | 21 | Associat Summary Farm net worth Dabt to senet ratio | 1 9/appred -5.48 | -19844 \$ 2574 -13.7% -6.5% |
| | PA | Ash flow coverson ratio RTMERAHIP, ACCT. BOOK, DDF.= | 0.44 \$ 2601 \$ 1.05 | 238365 \$ 278667 0.42 0-38 2563 \$ 2212 |

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1985 NEW YORK DAIRY-CASH CROP BUSINESS SUMMARY

INTRODUCTION

Dairy farm business summary projects are an integral part of Cooperative Extension's agriculture program in New York State. The Department of Agricultural Economics of the New York State College of Agriculture and Life Sciences at Cornell University, and County Extension staff, cooperate in sponsoring these projects. In 1985, more than 490 dairy farmers participated. Business records submitted by dairy farmers from 47 counties in the State provide the basis for continued Extension educational programs, data for applied research studies, and for use in the classroom. Regardless of the use of the data, confidentiality of individual farm data is maintained.

Cooperative Extension agents and specialists enrolled the cooperators and collected the records. Regional summary reports were prepared by the college staff. Each cooperator received a summary and analysis of his or her business, and a regional report for making comparisons. These Extension activities enable farmers to develop managerial skills and solve business management problems.

The 1985 Dairy Farm Business Summary features improved accrual accounting procedures, a new measure of farm profitability, a more indepth balance sheet, an annual cash flow statement, and several major improvements in the business analysis format and the analysis measures used. These and other changes are identified in the body of this report.

This special Dairy-Cash Crop Summary is an average of 21 dairy farm businesses that have crop sales totaling more than 10 percent of their milk sales. The farm income, financial summary, and business analysis sections of this report include comparisons with average data of 404 owned dairy farms in the State. A more detailed analysis of the 404 dairy farms is contained in Smith, Stuart F., Wayne A. Knoblauch, Linda D. Putnam, <u>Dairy Farm Management Business Summary, New York, 1985</u>, A.E. Res. 86-25, October 1986. This report is prepared in workbook form for farmers to use in the systematic study of their farm business operations.

Business records for 21 farms in Albany, Cayuga, Chautauqua, Columbia, Genesee, Lewis, Niagara, Oneida, Ontario, Orleans, Seneca, Wayne, and Yates Counties are summarized in this publication. Two of the 21 farms participated in the milk diversion program. These farms do <u>NOT</u> represent the "average" for all dairy-cash crop farms in the State. Participation was on a voluntary basis, therefore, not all areas or types of operations were represented.

Acknowledgement

The preparation of this report and the processing and organization of the data it contains has been successfully completed by our dedicated support staff, Beverly Carcelli and Cindy Farrell.

SUMMARY OF THE FARM BUSINESS

Business Characteristics

Finding the right management strategies is an important part of farming. Various combinations of farm resources, enterprises, business arrangements, and management techniques are used by the dairy farmers in this region. The following table shows important farm business characteristics, the number of farms reporting these characteristics, and the average level of resources used in production.

BUSINESS CHARACTERISTICS AND RESOURCES USED 21 New York Dairy-Cash Crop Farms in Comparison to 404 Dairy Farms, 1985

| | <u>Number of</u> | <u>Farms</u> | | <u>Number of</u> | <u>Farms</u> |
|-------------------------|------------------|--------------|----------------------------------|------------------|--------------|
| | 21 Dairy- | 404 | | 21 Dairy- | 404 |
| <u>Type of Business</u> | <u>Cash Crop</u> | <u>Dairy</u> | <u>Type of Barn</u> | <u>Cash Crop</u> | <u>Dairy</u> |
| Single proprietorship | 10 | 289 | Stanchion | 12 | 247 |
| Partnership | 9 | 102 | Freestall | 7 | 139 |
| Corporation | 2 | 13 | Other | 2 | 18 |
| | Number of | Farms | | Number of | Farms |
| | 21 Dairy- | 404 | | 21 Dairy- | 404 |
| <u>Milking System</u> | Cash Crop | <u>Dairy</u> | <u>Business</u> Record System | Cash Crop | <u>Dairy</u> |
| Bucket & carry | | 4 | Account Book | 8 | 182 |
| Dumping station | 3 | 42 | Agrifax (mail- | in | 101 |
| Pipeline | 11 | 217 | only) | 4 | 88 |
| Herringbone parlor | 7 | 122 | CAMIS | 4 | 42 |
| Other parlor | | 19 | On-Farm Comput | er 3 | 17 |
| p===== | | | Other | 2 | 75 |
| | Number of | Farms | 001101 | - | 75 |
| Dairy Records | 21 Dairy- | 404 | | | |
| Service | Cash Crop | Dairy | | | |
| DHIC | 16 | 289 | | | |
| Owner-Sampler | 1 | 51 | | | |
| Other | 3 | 17 | | | |
| None | 1 | 47 | | | |
| | Avera | ge | | Avera | ge |
| | 21 Dairy- | 404 | | 21 Dairy- | 404 |
| <u>Labor Force</u> | Cash Crop | <u>Dairy</u> | <u>Land Use</u> | Cash_Crop | Dairy |
| Operator 1. | 12 | 12 | Total acres | | |
| Operator 2. | 5 | 4 | owned | 343 | 341 |
| Operator 3. | 2 | 1 | Total tillable | | |
| Operator 4. | 1 | 0 | acres | 449 | 280 |
| Family paid | 7 | 5 | | | |
| Family unpaid | 1 | 3 | Number of Cows | | |
| Hired | <u>14</u> | <u>13</u> | Beg. year (own | ed) 87 | 87 |
| Total | 42 | 38 | End year (owne | d | |
| | | | & leased | 88 | 92 |
| Worker Equivalent | | | Average for ve | ar | |
| (total + 12) | 3.50 | 3.17 | (owned & lea | sed) 88 | 89 |
| Operator/Manager | | | · | -, | |
| Equivalent | | | | | |
| (Oper. mo. + 12) | 1.67 | 1.42 | | | |

Income Statement

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

| | | | A 1 | |
|---------------------------|---------|-----------|--------------------|-----------|
| . . | Cash | Change in | Change in | Accrual |
| Expense Item | Paid + | Inventory | + Accounts Payable | <u> </u> |
| Hired Labor \$ | 25,034 | | \$ -31 | \$ 25,003 |
| Feed | | | | |
| Dairy grain & conc. | 21,830 | \$ -385 | 378 | 21,823 |
| Dairy roughage | 2,630 | 552 | - 24 | 3,158 |
| Other livestock | 2,251 | 86 | 0 | 2,337 |
| Machinery | | | | |
| Mach. hire, rent/lease | 3,231 | | 29 | 3,260 |
| Machinery repairs/parts | 11,595 | -95 | 20 | 11,520 |
| Auto expense (farm share) | 330 | | 0 | 330 |
| Fuel, oil & grease | 9,366 | 24 | -48 | 9,342 |
| Livestock | | | | |
| Replacement livestock | 2,371 | | 0 | 2,371 |
| Breeding | 2,575 | 45 | 28 | 2,648 |
| Vet & medicine | 3,935 | -24 | 38 | 3,949 |
| Milk marketing | 9,243 | | 0 | 9,243 |
| Cattle lease/rent | 0 | | 0 | 0 |
| Other livestock expense | 6,482 | - 56 | 13 | 6,439 |
| Crops | | | | |
| Fertilizer & lime | 15,615 | 621 | 181 | 16,417 |
| Seeds & plants | 6,003 | 214 | 555 | 6,772 |
| Spray, other crop exp. | 6,250 | 21 | 176 | 6,447 |
| Real Estate | | | | |
| Land/bldg./fence repair | 1,859 | | 6 | 1,865 |
| Taxes | 5,284 | | 171 | 5,455 |
| Insurance | 3,976 | | 43 | 4,019 |
| Rent & lease | 9,034 | | 166 | 9,200 |
| <u>Other</u> | | | | |
| Telephone (farm share) | 933 | | 0 | 933 |
| Electricity (farm share) | 4,433 | | 25 | 4,458 |
| Interest paid | 20,938 | | 213 | 21,151 |
| Miscellaneous _ | 3,168 | <u> </u> | -82 | <u> </u> |
| Total Operating \$ | 178,366 | \$1,065 | \$1,857 | \$181,288 |
| Expansion livestock \$ | 298 | | \$ O | \$ 298 |
| Machinery depreciation | | | | 24,627 |
| Building depreciation | | | | 8,436 |
| TOTAL ACCRILAT FYDENSES | | | | \$214 640 |

CASH AND ACCRUAL FARM EXPENSES 21 New York Dairy-Cash Crop Farms, 1985

<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>Accrual expenses</u> are the costs of inputs actually used in this year's production. The value of feed and supplies used out of inventory are included as are the costs of inputs purchased but not paid for (net increases in accounts payable). Items paid for and not used (net additions to inventory) are excluded from accrual expenses as are payments made on inputs used in a prior year (net decreases in accounts payable).

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

CASH AND ACCRUAL FARM EXPENSES WORKSHEET

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

<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>Accrual expenses</u> are the costs of inputs actually used in this year's production. Purchased feed and supplies used out of inventory must be included. Beginning of year less end of year purchased feed and supply inventory equals the change in inventory to include in accrual expenses. Feed, supplies, and services used but not paid for must be included by adding the net increase in operating accounts payable. Increases in operating accounts payable are determined by subtracting the balance at the beginning of the year from the end of year balance.

| Receipt Item | Cash Receipts | + | Change in Inventory | + | Change in Accounts Receivable | <u>+</u> | Accrual Receipts |
|----------------------------|------------------|---|------------------------|---|-------------------------------------|----------|---------------------|
| | 6170 604 | | | | ¢_//35 | | \$170 169 |
| MIIK Sales Dairy aattle | 10 826 | | \$1 450 | | - -28 | | 12,248 |
| Dairy calves | 3 346 | | φ 1 ,430 | | -10 | | 3,336 |
| Other livestock | 4,557 | | -405 | | 0 | | 4,152 |
| Crops | 37,597 | | 138 | | 623 | | 38,358 |
| Government receipts | 7.450 | | | | 0 | | 7,450 |
| Custom machine work | 372 | | | | 0 | | 372 |
| Gas tax refund | 550 | | | | -23 | | 527 |
| Other | 5,529 | | | | -244 | | 5.285 |
| Total Accrual Receipts | \$240,831 | | \$1,183 | | \$-117 | | \$241,897 |

CASH AND ACCRUAL FARM RECEIPTS 21 New York Dairy-Cash Crop Farms, 1985

<u>Cash receipts</u> includes the gross value of milk checks received during the year plus all other payments received for the sale of farm products, services, and government programs.

Accrual receipts represent the value of all farm commodities produced and services actually provided by the farmer during the year. Increases in livestock inventory caused by herd growth and/or quality, are included as accrual receipts. Decreases in inventory caused by herd reduction are deducted. Changes in inventories of crops grown are accounted for in accrual receipts. Changes in accounts receivable include the January milk check for this December's marketings compared with the previous January's check, and other delayed payments.

CASH AND ACCRUAL FARM RECEIPT WORKSHEET

| Receipt Item | Cash Receipts | Change in + Inventory | Change i Account + <u>Receiva</u> b | n s Accrual le + Receipts |
|---|------------------|--------------------------|---|---------------------------------|
| Milk sales Dairy cattle Dairy calves Other livestock Crops Government receipts Custom machine work Gas tax refund Other | \$ | \$xxxxxxxx | \$ | \$ |
| Total Accrual Receipts | \$ | \$ | \$ | \$ |

To calculate the change in inventory to be included in the above worksheet, subtract the beginning of year values from the end of year values. Appreciation is included in crop inventory change, but excluded from livestock categories. The changes in inventories caused by declining prices must be excluded from the calculation of accrual receipts. Changes in accounts receivable are also determined by subtracting beginning of year balances from end of year balances.

Profitability Analysis

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

Net farm income 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.

Net farm income is computed with and without appreciation. Appreciation represents the change in inventory values caused by changes in prices during the year. Appreciation is a major factor contributing to changes in farm net worth and must be included in the profitability analysis.

| NET FARM INCOME | | | | | | | | | | | | |
|-----------------|-----|------|------------|------|-------|-----|-----|-----|------|-------|--------|------|
| 21 | New | York | Dairy-Cash | Crop | Farms | and | 404 | New | York | Dairy | Farms, | 1985 |

| | 21 Dairy-Cash | 404 Dairy | |
|--|---------------|-----------|----------------|
| <u>Item</u> | Crop Farms | Farms | <u>My Farm</u> |
| m. 1 1 <i>1</i> . | A0/1 007 | A007 500 | • |
| Total accrual receipts | \$241,897 | \$207,582 | ş |
| Appreciation: Livestock | -6,733 | -9,409 | |
| Machinery | 7,756 | 2,956 | |
| Real Estate | 5,274_ | 4,431 | |
| Total Including Appreciation | \$248,914 | \$205,560 | \$ |
| - Total accrual expenses | 214,649 | 185,612 | |
| Net Farm Income (with appreciation) | \$ 33,545 | \$ 19,948 | \$ |
| Net Farm Income (without appreciation) | \$ 27,248 | \$ 21,970 | \$ |

<u>Return to operator(s') labor, management, and equity capital</u> measures the total business profits for the farm operators. It is calculated by deducting a charge for unpaid family labor from net farm income. Operator(s') labor is not included in unpaid family labor. Return to operator(s') labor, management, and equity capital has been compiled with and without appreciation.

RETURN TO OPERATOR(S') LABOR, MANAGEMENT, AND EQUITY 21 New York Dairy-Cash Crop Farms and 404 New York Dairy Farms, 1985

| Item | 21 Dairy-Cash Crop Farms | 404 Dairy Farms | My Farm |
|---|-----------------------------|--------------------|---------|
| Net farm income (with appreciation) | \$33.545 | \$19,948 | Ś |
| - Family labor unpaid @ \$550 per month | 550 | 1,650 | ۲ |
| Return to operator(s') labor, management | | | |
| & equity (with appreciation) | \$32,995 | \$18,298 | \$ |
| - Appreciation | 6,297 | -2.022 | |
| Return to operator(s') labor, management & equity (without appreciation) | \$26,698 | \$20,320 | \$ |

Labor and management income is the share of net farm income without appreciation returned to the operator(s') labor and management. Appreciation is not included as part of the return to labor and management. Labor and management income is determined by deducting the cost of using equity capital at a real interest rate of five percent, from the return to operator(s') labor, management, and equity capital excluding appreciation. The interest charge reflects the long-term average rate of return that a farmer might expect to earn in comparable risk investments in a low inflation economy.

Labor and management income per operator measures the return to each operator's labor and management.

| LABOR | AND | MANAGEMENT | INCOME |
|-------|-----|------------|--------|
|-------|-----|------------|--------|

21 New York Dairy-Cash Crop Farms and 404 New York Dairy Farms, 1985

| Item | 21 Dairy-Cash Crop Farms | 404 Dairy Farms | My Farm |
|--|-----------------------------|--------------------|---------|
| Return to operator(s') labor, managemen & equity without appreciation | t, \$26,698 | \$20,320 | \$ |
| - Real interest @ 5% on equity capital | 22,202 | 16,283 | - |
| Labor & Management Income | \$ 4,496 | \$ 4,037 | \$ |
| Labor & Management Income per Operator | \$ 2,698 | \$ 2,850 | \$ |

<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 or value of operator(s') 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 end of year farm net worth or equity capital.

RETURN ON EQUITY CAPITAL

| Item | 21 Dairy-Cash Crop Farms | 404 Dairy Farms | My Farm |
|---|-----------------------------|--------------------|---------|
| Return to operator(s') labor, management & equity capital with appreciation | , \$32,995 | \$18,298 | \$ |
| - Value of operator(s') labor & manageme | nt <u>26,370</u> | 22,613 | |
| Return on equity capital with appreciati | on \$ 6,625 | \$-4,315 | \$ |
| Rate of return on equity capital with appreciation | 1.5% | -1.3% | 8 |
| Return on equity capital without apprec. | \$328 | \$-2,293 | \$ |
| Rate of return without appreciation | 0.1% | -0.7% | |

Farm and Family Financial Status

Evaluating the financial status of the farm business and the farm family is an important part of business analysis. The first step is to recognize all the assets and liabilities that make up the balance sheet. The second step is to analyze your filled out balance sheet by evaluating changes made during the year.

| | | ~ | • | | |
|---------------------|------------------|------------------|------------------------|---------------|------------------|
| | | | Farm Liabilities | | |
| Farm Assets | <u>Jan. 1</u> | <u>Dec. 31</u> | <u>& Net Worth</u> | Jan. 1 | <u>Dec. 31</u> |
| Current | | | <u>Current</u> | | |
| Farm cash, checkir | ng | | Accounts payable | \$ 6,633 | \$ 8,490 |
| & savings | \$ 4,807 | \$ 4,388 | Operating debt | 7,143 | 3,843 |
| Accounts rec. | 17,701 | 17,709 | Short-term | 1,043 | 5,117 |
| Feed & supplies | 68,180 | 67,252 | | | |
| Total | \$90,688 | \$89,349 | Total | \$14,819 | \$17,450 |
| <u>Intermediate</u> | | | <u>Intermediate</u> | | |
| Dairy cows: | | | | \$106,024 | \$ 95,977 |
| owned | \$ 73,548 | \$ 70,492 | | | |
| leased | 0 | 0 | | | |
| Heifers | 34,925 | 32,813 | | | |
| Bulls/other lvstk. | . 3,969 | 3,449 | | | |
| Mach./eq. owned | 149,338 | 144,062 | | | |
| Mach./eq. leased | 863 | 1,691 | Financial lease | | |
| Coop stock & cert | . <u> 16,709</u> | <u> 16,638</u> | (cattle/mach.) | <u> </u> | <u> 1.691</u> |
| Total | \$279,352 | \$269,145 | Total | \$106,887 | \$ 97,668 |
| Long-Term | | | Long-Term | | |
| Land/buildings: | | | | \$113,715 | \$110,958 |
| owned | \$318,124 | \$311,618 | | | |
| leased | 762 | 786 | Financial lease | | |
| Total | \$318,886 | \$312,404 | (structures) | 762 | 786 |
| | | | Total | \$114,477 | \$111,744 |
| Total Farm Assets | \$688,927 | \$670,898 | Total Farm Liab. | \$236,183 | \$226,862 |
| | | | FARM NET WORTH | \$452,744 | \$444,036 |
| (Average for 11 fa | arms repor | ting) | | | |
| (| | | Nonfarm Liabiliti | es* | |
| Nonfarm Assets* | Jan, 1 | Dec. 31 | & Net Worth | Jan. 1 | Dec. 31 |
| D | | | NT (* | <u> </u> | <u> </u> |
| Personal cash, chi | kg. | ¢ 5 770 | NONLARM MET HODEN | \$5,786 | \$5,064 |
| & savings | 2 0,032 | ې <i>ک</i> , //۶ | NONFARM NET WORTH | \$45,033 | \$49,202 |
| Cash value life in | 15.13,793 | 10,28/ | FARM & NONFARM* | <u>Jan, 1</u> | Dec. 31 |
| Noniarm real estat | Ce 11,010 | 11,818 | IOTAL ASSETS | \$739,746 | \$725,164 |
| Auto (personal sn. | .) 4,304 | 4,200 | liotal Liabilities | 241,969 | 231,926 |
| Stocks & Donds | 4,024 | 0,912 | | | |
| nousenoia iurn. | 0,000 | 9,082 | | | |
| All Other | | | TOTAL DADA C NON | | |
| Watal N | 650 010 | 651 000 | I DADA NEW HODEN | A/07 777 | A/02 000 |
| IOTAL NONLARM | \$20,81A | ş54,200 | FARM NET WORTH | 2497,777 | 5493,238 |

| 1985 | FAR | M BUS | INESS | & | NON | FARM | BALANCE | SHEET |
|------|-----|-------|-------|-----|-----|------|---------|-------|
| 21 | New | York | Dairv | - C | ash | Crop | Farms. | 1985 |

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

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| | | | Farm Liabilities | | |
|-----------------------|---------------|----------------|---------------------|---------------|----------------|
| Farm Assets | <u>Jan. 1</u> | <u>Dec. 31</u> | & Net Worth | <u>Jan, 1</u> | <u>Dec. 31</u> |
| Current | | | Current | | |
| Farm cash checking | | | Accounts navable | | |
| & savings | , | | Operating debt | <u></u> | |
| Accounts rec | | | Short-term: | | |
| Feed & supplies | | | bitor c corm. | | |
| rood a pappiroo | | | | | |
| Total | | | Total | <u></u> | |
| <u>Intermediate</u> | | | <u>Intermediate</u> | | |
| Dairy cows: | | | | | |
| owned | | | | | |
| leased | | | | | |
| Heifers | | | | | |
| Bulls/other lvstk. | | | | | |
| Mach./eq. owned | | | | | |
| Mach./eq. leased | | | Financial lease | | |
| Coop stock & cert. | | | (cattle/mach.) | | |
| Total | | | Total | | |
| | | | | | |
| Long-Term | | | Long-Term | | |
| Land/buildings: | | | | | |
| owned | | | | | |
| leased | | | | | |
| Total | | | Financial lease | | |
| Iotui | | | (structures) | | |
| | | | Total | | |
| Total Farm Assets | | | Total Farm Liab | | |
| TOTAL TALK MODELS | | | FARM NET WORTH | | |
| | | | Nonfarm Liabilitie | s | |
| <u>Nonfarm Assets</u> | <u>Jan, 1</u> | <u>Dec. 31</u> | & Net Worth | <u>Jan. 1</u> | <u>Dec. 31</u> |
| | | | Nonfarm Liab.: | | |
| Personal cash, chk | g. | | | | |
| & savings | | | | | |
| Cash value | | | | | |
| life ins. | | · | | ······ | |
| Nonfarm real est. | | | | | |
| Auto (pers. share) | | | Total Nonfarm | | |
| Stocks & Donds | | | Liabilities | | |
| Household furn. | | | | | |
| All other | | | Noniarm | | |
| Total Nonlarm | | | Net Worth | | |
| TOTAL FARM & NONFAL | <u>RW</u> | | Jan1 | Dec | . 31 |
| Total Farm & Nonfar | cm Assets | | | _ | |
| Less Total Farm & 1 | Nonfarm L: | iabilities | | - | |
| Farm & Nonfarm Net | Worth | | | | |
| | | | | | |

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1985 FARM BUSINESS & NONFARM BALANCE SHEET

<u>Balance sheet analysis</u> continues by examining financial and debt ratios and factors measuring levels of debt. Percent equity is calculated by dividing net worth by assets. Equity increases as the value of assets increase more than liabilities. 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. The debt analysis ratios show how well the debt is structured and managed. Debt levels per unit of production include some old standards that are still useful if used with measures of cash flow and repayment ability.

BALANCE SHEET ANALYSIS

21 New York Dairy-Cash Crop Farms and 404 New York Dairy Farms, 1985

| | 21 Dairy-Cash | 404 Dairy | |
|---|---------------|--------------|--|
| Item | Crop Farms | Farms | <u>My Farm</u> |
| Financial Dation Form | | | |
| Financial Ratios - Farm. | | C D a | |
| Percent equity | 668 | 638 | * |
| Debt/asset ratio: total | 0.34 | 0.37 | |
| long-term | 0.36 | 0.45 | |
| intermediate/current | 0.32 | 0.30 | |
| Financial Ratios - Farm & Nonfarm: | | | |
| Percent equity | 67% | ŕ65 % | 8 |
| Total debt/asset ratio | 0.33 | 0.35 | ······································ |
| Farm Debt Analysis: | | | |
| Accounts payable as % of total debt | 48 | 3% | 8 |
| Long-term liabilities as a % of total d | lebt 49% | 58% | 8 |
| Current & inter. liab. as a % of total | debt 51% | 42% | § |
| Farm Debt Levels Per Cow: | | | |
| Total farm debt | \$2 578 | \$2 090 | Ś |
| long-term debt | 1 270 | 1 205 | Υ |
| Intermediate Coursent debt | 1 200 | 1,205 | |
| intermediate & current debt | 1,300 | 600 | ······ |

<u>Balance sheet analysis</u> concludes with a summary of the inventory balancing procedure for farm real estate and machinery and equipment. It is important to account for the value of these assets 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.

> FARM MACHINERY AND EQUIPMENT INVENTORY BALANCE 21 New York Dairy-Cash Crop Farms, 1985

| Item | | Average | | Farm | |
|-----------------------------|-------------|----------|----------|-------------|-----------|
| | <u>R.E.</u> | Mach./Eq | <u>.</u> | <u>R.E.</u> | Mach./Eq. |
| Value beg. of year | \$318, | 124 \$14 | 9,338 | \$ | \$ |
| Purchases | \$ 5,767* | \$11,920 | \$ | | \$ |
| - Lost capital | 1,363 | | - | | - |
| - Sales | 7,748 | 325 | - | | - |
| - Depreciation | 8,436 | 24,627 | - | | |
| = Net investment | \$-11, | 780 \$-1 | 3,032 - | | |
| + A [.] preciation | 5, | 274 | 7.756 | + | - + |
| Valu end of year | \$311, | 618 \$14 | 4,062 | \$ | \$ |

*\$2,007 land and \$3,760 buildings and/or depreciable improvements.

Cash Flow Summary and Analysis

Completing an annual cash flow summary and analysis is important to determine how well the cash generated by the business, plus that brought in from outside, met the annual cash needs of the business and the farm family. 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> in the following table is structured to compare all the cash inflows with all the cash outflows for the year. Cash inflows include all the cash farm receipts, receipts from the sale of farm assets, additional funds borrowed, as well as the amount of cash available at the beginning of the year. Cash outflows include all the cash farm expenses, capital purchases, principal payments, money taken out of the business, and the cash balance left at year's end. When all the cash inflows and outflows are correct, the statement will balance. If the imbalance (error) amount is positive, recorded cash inflows exceed outflows by this amount. If it is negative, cash outflows are too high in relation to inflows.

| ٨ | NUNTERAT | CACU | ET OU | CTA | TEMENT |
|---|----------|------|-------------|---------|--------|
| 1 | NNUAL | CASH | FLUW | - S I A | ILMENI |

| | 21 Dairy-Cash | 404 Dairy | |
|---|---------------|-----------|---------|
| Item | Crop Farms | Farms | My Farm |
| <u>Cash Inflows</u> | | | |
| Beginning farm cash, checking & savings | \$ 4,807 | \$ 3,325 | \$ |
| Cash farm receipts | 240,831 | 202,388 | |
| Sale of assets: Machinery | 325 | 411 | |
| Real estate | 6,350 | 1,837 | |
| Money borrowed (inter. & long-term) | 29,181 | 22,966 | |
| Money borrowed (short-term) | 4,767 | 2,847 | |
| Increase in operating debt | 0 | 438 | |
| Nonfarm income | 2,530 | 3,891 | |
| Money borrowed - nonfarm | 714 | 323 | |
| Total | \$289,505 | \$238,425 | \$ |
| <u>Cash Outflows</u> | | | |
| Cash farm expenses | \$178,366 | \$161,157 | \$ |
| Capital purchases: Expansion livestock | 298 | 1,670 | |
| Machinery | 11,920 | 12,997 | |
| Real estate | 5,767 | 10,164 | |
| Principal payments (inter. & long-term) | 41,985 | 21,412 | |
| Principal payments (short-term) | 693 | 2,086 | |
| Decrease in operating debt | 3,299 | 0 | |
| Nonfarm debt payments | 1,399 | 259 | |
| Personal withdrawals & family exp. | 25,572 | 16,723 | |
| Ending farm cash, checking & savings | 4,388 | 3,449 | |
| Total | \$273,688 | \$229,915 | \$ |
| Imbalance (error) | \$15,817 | \$8,510 | \$ |

Repayment Analysis

The second step of cash flow planning is to compare and evaluate debt payments planned and made last year, and estimate the payments required in the current year. It is helpful to compare and evaluate by using debt payments per unit of production and receipt/debt payment ratios.

| *********** | | Average | | | My Farm | n |
|----------------------------------|----------|--------------|----------|---------|---------|---------|
| | 1985 Pay | ments | Planned | 1985 Pa | yments | Planned |
| Debt Payments | Planned | Made | 1986 | Planned | Made | 1986 |
| Long-term | \$16,086 | \$24,944 | \$16,579 | \$ | \$ | \$ |
| Intermediate-term | 26,335 | 37,523 | 23,757 | | | |
| Short-term | 4,847 | 860 | 4,432 | | | |
| Operating (net reduction) | 0 | 3,647 | 3,284 | | | |
| Accounts payable | | | | | | |
| (net reduction) | 3,237 | <u>1,379</u> | 282 | | | |
| Total | \$50,505 | \$68,352 | \$48,335 | \$ | \$ | \$\$ |
| Per cow | \$587 | \$795 | | \$ | \$ | |
| Per cwt. 1985 milk | \$3.76 | \$5.09 | | \$ | \$ | |
| Percent of total | | · | | • | | - |
| 1985 receipts Percent of 1985 | 21% | 29% | | | | - |
| milk receipts | 30% | 41% | | | | - |

| | | FAR | M DEH | ЗT | PAYMENTS | PLAN | IED | |
|------|----|-----|-------|----|----------|------|--------|------|
| Same | 19 | New | York | Da | iry-Cash | Crop | Farms, | 1985 |

*Farms that completed Dairy Farm Business Summaries for both 1984 and 1985.

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 this year's planned debt payments.

CASH FLOW COVERAGE RATIO New York Dairy-Cash Crop Farms and New York Dairy Farms, 1985

| Item | Same 19 Dairy- Cash Crop Farms | Same 307 Dairy Farms | My Farm |
|--|-----------------------------------|-------------------------|---------|
| Cash farm receipts | \$237,870 | \$212,395 | \$ |
| - Cash farm expenses | 175,935 | 169,513 | |
| + Interest paid | 21,720 | 18,356 | |
| - Net personal withdrawals | | | |
| from farm* | 22,760 | 13,248 | |
| (A) - Amount Available for | | | |
| Debt Service | \$60,895 | \$47,990 | \$ |
| (B) = Debt Payments Planned for 1985 | \$50,505 | \$43,401 | \$ |
| (A + B) = Cash Flow Coverage Ratio for 1985 | 1.21 | 1.11 | |

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

ANALYSIS OF THE FARM BUSINESS

The farm business has been divided into three parts to allow a more indepth analysis of the cropping program, the dairy program, and the factors affecting capital and labor efficiency.

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 | Averag | e of Fa | rms Reporting | <u>My Farm</u> | |
|----------------------|--------|--------------|---------------|----------------|-----------|
| <u>Crop Yields</u> | Farms | <u>Acres</u> | Prod/Acre* | Acres | Prod/Acre |
| Hay crop | 21 | 126 | 3.0 tn DM | | tn DM |
| Corn silage | 19 | 49 | 16.0 tn | | tn |
| - | | | 5,5 tn DM | | tn DM |
| Other forage | 0 | 0 | tn DM | | tn DM |
| Total forage | 21 | 170 | 3.7 tn DM | | tn DM |
| Corn grain | 20 | 177 | 97.6 bu | | bu |
| Oats | 15 | 43 | 89.2 bu | | bu |
| Wheat | 15 | 41 | 58.8 bu | | bu |
| Other crops | 7 | 46 | | | |
| Tillable pasture | 7 | 27 | | | |
| Idle | 12 | 44 | | | |
| Total Tillable Acres | 21 | 449 | | | |

LAND RESOURCES AND CROP PRODUCTION 21 New York Dairy-Cash Crop Farms, 1985

*1985 average yields for 404 dairy farms in New York included: all hay crops, 2.7 tons dry matter per acre; corn silage, 14.3 tons per acre; corn grain, 92.4 bushels 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 measure how efficiently the land resource is being used and how well total forage requirements are being met.

CROP MANAGEMENT FACTORS

| Item | 21 Dairy-Cash Crop Farms | 404 Dairy Farms | My Farm |
|--|-----------------------------|--------------------|---------|
| Total tillable acres per cow Total forage acres per cow | 5.1 2.0 | 3.1 2.4 | |
| Harvested forage dry matter, tons per co | ow 7.1 | 8.1 | |

Cropping Program Analysis (continued)

A number of cooperators have allocated crop expenses to hay crop, corn, and other crop production. This data has been compiled to show crop expenses per acre and per production unit for these crops. Corn production has been converted to corn silage equivalent using 5.88 bushels of dry shell equivalent to equal one ton of corn silage as fed.

CROP RELATED ACCRUAL EXPENSES

21 New York Dairy-Cash Crop Farms and 404 New York Dairy Farms, 1985

| | Total/ | <u>Hay</u> | Crop | Corn | Per Ton | Other |
|--------------------|---------------|------------|-----------------|--------------|-------------|--------------|
| | Till . | Per | Per | Per | Corn Sil. | Crops |
| Expense | Acre | Acre | Ton DM | Acre | Equiv. | Per Acre |
| | | | | | | |
| 21 Dairy-Cash Crop | Farms: | | Average of | 16 farms | reporting | data |
| Fertilizer & lime | \$36.56 | \$19.66 | \$ 6.27 | \$ 57.82 | \$3.47 | \$32.97 |
| Seeds & plants | 15.08 | 8,28 | 2.64 | 21.71 | 1.30 | 14.85 |
| Spray & other crop | | | | | | |
| expense | 14.36 | 3.76 | <u> 1.20</u> | 25.05 | 1.50 | <u>13.99</u> |
| Total | \$66.00 | \$31.70 | \$10.11 | \$104.58 | \$6.27 | \$61.82 |
| | | | | | | |
| 404 Dairy Farms: | | I | Average of | 257 farms | reporting | data |
| Fertilizer & lime | \$31.65 | \$19.55 | \$ 7.51 | \$53.17 | \$3.66 | \$28.78 |
| Seeds & plants | 11.73 | 5.61 | 2.16 | 20.21 | 1.39 | 19.37 |
| Spray & other crop | | | | | | |
| expense | 11.20 | 2.70 | 1.04 | <u>24.31</u> | <u>1.67</u> | 12.03 |
| Total | \$54.58 | \$27.86 | \$10.71 | \$97.69 | \$6.72 | \$60.18 |
| <u>My Farm</u> : | | | | | | |
| Fertilizer & lime | Ş | \$ | \$ | \$ | \$ | \$ |
| Seeds & plants | | | | | | |
| Spray & other crop | | | | | | |
| Total | ŝ | \$ | \$ | Ś | \$ | \$ |
| | T | т | τ | Τ | тт | ¥ |

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.

ACCRUAL MACHINERY EXPENSES 21 New York Dairy-Cash Crop Farms and 404 New York Dairy Farms, 1985

| | Average Per Ti | llable Acre | My I | Farm |
|----------------------------|-------------------|-------------|----------|----------|
| There | 21 Dairy-Cash | 404 Dairy | Total | Per Til. |
| Icem | <u>Crop Farms</u> | rarms | Expenses | Acres |
| Fuel, oil & grease | \$ 20.80 | \$ 23,84 | \$ | \$ |
| Machinery repairs & parts | 25.65 | 33.62 | | |
| Machine hire, rent & lease | 7,26 | 5.47 | | |
| Auto expense (farm share) | 0.73 | 1.67 | | |
| Interest (5%) | 16.33 | 17.11 | - | , |
| Depreciation | 54.84 | 53,99 | | |
| Total | \$125.61 | \$135.70 | \$ | \$ |

Dairy Program Analysis

Analysis of the dairy enterprise can tell a great deal about the strengths and weaknesses of the dairy farm business. 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 real increase in inventory has been included as an accrual farm receipt on page 5.

| | Dair | y Cows | Heifers | | |
|-------------------------------|--------|------------------|---------|----------|--|
| Item | Number | Value | Number | Value | |
| 21 Dairy-Cash Crop Farms: | | | | | |
| Beginning of year (owned) | 87 | \$73,548 | 72 | \$34,925 | |
| + Change without appreciation | | 1,218 | | 232 | |
| + Appreciation | | 4,274 | | -2,344 | |
| End of year (owned) | 88 | \$ 70,492 | 74 | \$32,813 | |
| End including leased | 88 | | | | |
| Average number | 88 | | 72 | | |
| 404 Dairy Farms: | | | | | |
| Beginning of year (owned) | 87 | \$ 76,945 | 74 | \$33,380 | |
| + Change without appreciation | | 4,349 | | -69 | |
| + Appreciation | | -6,260 | | -3,159 | |
| End of year (owned) | 92 | \$75,034 | 75 | \$30,152 | |
| End including leased | 92 | | | | |
| Average number | 89 | | 73 | | |
| <u>My Farm</u> : | | | | | |
| Beginning of year (owned) | | \$ | | \$ | |
| + Change without appreciation | | | | | |
| + Appreciation | | | | ···· | |
| End of year (owned) | | | | | |
| End including leased | | | | | |
| Average number | | S | | Ś | |

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.

MILK PRODUCTION

| 2: Item | Dairy-Cash Crop Farms | 404 Dairy Farms | My Farm |
|--|--------------------------|--------------------|---------|
| Total milk sold, lbs. | 1,360,818 | 1,400,063 | - |
| Milk sold per cow, 1bs. | 15,548 | 15,679 | |
| Average milk plant test, percent butterfat | 3.63 | 3.61 | |

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 can be compared with the accrual costs of producing milk per hundredweight of milk. Using the whole farm method, <u>operating costs of</u> <u>producing milk</u> are estimated by deducting nonmilk accrual receipts from total accrual operating expenses. <u>Total costs of producing milk</u> include the operating costs plus expansion livestock purchased, depreciation on machinery and buildings, the value of operator(s') labor and management, and the 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 21 New York Dairy-Cash Crop Farms and 404 New York Dairy Farms, 1985

| | 21 Dairy | -Cash Crop | 404 D | airy | My I | Farm |
|--|-------------------------------------|--------------------------------|-------------------------------------|--------------------------------|----------|----------|
| Item | Total | Per Cwt. | Total | Per Cwt. | Total | Per Cwt. |
| Milk Dairy cattle Dairy calves | \$170,169 12,248 <u>3,337</u> | \$12.50 0.90 <u>0.25</u> | \$180,609 15,679 <u>2,183</u> | \$12.90 1.12 <u>0.16</u> | \$ | \$ |
| Total | \$185,754 | \$13.65 | Ş198,471 | \$14.18 | \$ | \$ |
| <u>Accrual Costs of</u> <u>Producing Milk</u> Operating costs Total costs with- | \$109,560 | \$ 8.05 | \$134,046 | \$ 9.57 | \$ | \$ |
| out op(s') labor, mgmt. & capital Total Costs | \$143,471 \$192,043 | \$10.54 \$14.11 | \$160,290 \$199,186 | \$11.45 \$14.23 | \$ \$ | \$ \$ |

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.

DAIRY RELATED ACCRUAL EXPENSES

21 New York Dairy-Cash Crop Farms and 404 New York Dairy Farms, 1985

| | Average Per Cwt | . Milk | My Farm |
|------------------------------|--------------------|-----------|-----------|
| Item | 21 Dairy-Cash Crop | 404 Dairy | Per Cwt. |
| Purchased dairy grain & conc | \$1.60 | \$2.95 | ¢ |
| Purchased dairy roughage | 0.23 | 0.09 | ۲ |
| Total Purchased Dairy Feed | \$1.83 | \$3.04 | \$ |
| Purchased grain & conc. | | · | - <u></u> |
| as % of milk receipts | 13% | 23% | 8 |
| Purchased feed & crop exp. | \$4.01 | \$4.13 | \$ |
| Purchased feed & crop exp. | | | |
| as % of milk receipts | 32% | 32% | * |
| Breeding | \$0.19 | \$0.20 | \$ |
| Veterinary & medicine | 0.29 | 0.27 | • ••••• |
| Milk marketing | 0.68 | 0.80 | |
| Cattle lease | | | |
| Other livestock expense | 0.47 | 0.52 | |

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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.

| | Per | Per | Per Tillable |
|---------------------------|-----------|---------|--------------|
| Item | Worker | Cow | Acre |
| 21 Dairy-Cash Crop Farms: | | | |
| Farm capital | \$194,261 | \$7,768 | \$1,514 |
| Real estate | | 3,606 | |
| Machinery & equipment | 42,279 | 1,691 | 330 |
| Capital turnover, years | 2. | 81 | |
| 404 Dairy Farms: | | | |
| Farm capital | \$163,577 | \$5,801 | \$1,848 |
| Real estate | | 2,726 | |
| Machinery & equipment | 30,543 | 1,083 | 345 |
| Capital turnover, years | 2. | 50 | |
| <u>My Farm</u> : | | | |
| Farm capital | \$ | \$ | \$ |
| Real estate | | | |
| Machinery & equipment | | | |
| Capital turnover, years | | | |

CAPITAL EFFICIENCY

21 New York Dairy-Cash Crop Farms and 404 New York Dairy Farms, 1985

LABOR FORCE ANALYSIS

| | 21 Dairy- | Cash Cro | p 404 | Dairy | My | Farm |
|------------------------|-----------|----------|-----------|---------------|--------------|------------|
| | • | Per | _ | Per | - | Per |
| Efficiency | Total | Worker | Total | <u>Worker</u> | <u>Total</u> | Worker |
| Cows, average number | 88 | 25 | 89 | 28 | | |
| Milk sold, pounds 1, | 360,818 | 388,805 | 1,400,063 | 442,125 | | |
| Tillable acres | 449 | 128 | 280 | . 89 | | |
| Work units | 1,056 | 302 | 956 | 302 | | |
| | | Per | | Per | | Per |
| Labor Costs | Total | Cow | Total | Cow | Total | <u>Cow</u> |
| Value of operator(s) | | | | | | |
| labor (\$800/month) | \$16,000 | \$183 | \$13,600 | \$152 | \$ | \$ |
| Family unpd. (\$550/mo | .) 550 | 6 | 1,650 | 18 | | |
| Hired | 25,003 | 286 | 19,341 | 217 | | |
| Total Labor | \$41,553 | \$475 | \$34,591 | \$387 | \$ | \$ |
| Machinery Cost | \$56,415 | \$645 | \$38,027 | \$426 | \$ | \$ |
| Total Labor & Mach. | \$97,968 | \$1,119 | \$72,618 | \$813 | \$ | \$ |

| AMMUAL CASH FLOW WORKSHEEL | ANNUAL | CASH | FLOW | WORKSHEEET |
|----------------------------|--------|------|------|------------|
|----------------------------|--------|------|------|------------|

| | 1 Del | | h | | Farm | | Exposted | 1086 |
|---------------------------------|---------|-----------------|-------|------------|--------------|---|--|---|
| Zter | I Dai | ry-tas Forme | sn_ | Total | <u>raim</u> | Cou | Change | Projection |
| Item | (707 | raims | | IULAI | rei | COW | Ullalige | riojección |
| Assessed and an after a feature | (per | | | | | | | |
| Average number of cows | | 00 | | | | | | |
| Accrual Oper, Receipts | A1 | <i></i> | ~ | | • | | | ~ |
| MIIK | ŞΤ | ,944 | ې_ | | _ | | | ₽ |
| Dairy cattle | | 140 | | | | | | ,, , , , , , , , , , , , , , , , , , , |
| Dairy calves | | 38 | _ | | | | | |
| Other livestock | | 48 | | | | | | |
| Crops | | 438 | - | | | | | |
| Misc. receipts | | 156 | | | | | | |
| Total | \$2 | ,764 | \$_ | | _ \$ | | | \$ |
| | | | | | | | | |
| <u>Accrual Oper. Expenses</u> | | | | | | | | |
| Hired labor | \$ | 286 | \$_ | | _ \$_ | | | \$ |
| Dairy grain & conc. | | 249 | _ | | | | | |
| Dairy roughage | | 36 | | | _ | | | |
| Other lvstk. feed | | 27 | | | | | | |
| Mach. hire/rent/lease | | 37 | | | | | | |
| Mach, repair/parts & auto | | 135 | | | | | | |
| Fuel, oil & grease | | 107 | | | | | | |
| Replacement lystk. | | 27 | - | | | | | |
| Breeding | | 30 | - | | | | ······································ | ····· |
| Vet & medicine | | 45 | - | | | | ······· | ······ |
| Milk marketing | | 106 | - | | | | | |
| Cattle lease | | | - | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | **** |
| Other lystk eyn | | 74 | | | | | | |
| Fertilizer & lime | | 188 | - | | | | | |
| Seede & plante | | 77 | - | | | | | |
| Secus & planes | | 7/ | - | | | | | |
| Spray/other crop exp. | | 21 | | | | | | |
| Land, bldg., fence repair | | 21 60 | | | | | | |
| Taxes | | 02 | | | | | | |
| Insurance | | 40 | | | ••••• ······ | | | |
| Real est, rent/lease | | 105 | | | | | | |
| Utilities | | 62 | _ | | | | | <u></u> |
| Miscellaneous | 1. | 36 | | | | | | |
| Total Less Int. Paid | ŞI | ,830 | | | | | ···· | ş |
| | | _ | | | | | | |
| Net Accrual Operating Inco | me | (to | ote | al) | | | | |
| (without interest paid) | | \$80 | 1,7 | 761 | \$ | | | \$ |
| - Change in lvstk./crop in | IV. | - | 1,1 | L83 | | | | |
| - Change in accts. rec. | | | - 1 | L17 | | | | |
| + Change in feed/supply in | ıv. | | 1,0 | 065 | | | | |
| + Change in accts. payable | • | - | 1.8 | <u>357</u> | | | | |
| NET CASH FLOW | | \$8: | 3,6 | 518 | \$ | | | \$ |
| - Personal withdrawals & | | | | | | | | |
| family expenditures | | 2 | 5.5 | 572 | | | | |
| Available for Debt Payment | s, | | | | | | | |
| Investments & Savings | · | \$5i | 8.0 | 046 | ŝ | | | Ś |
| - Farm Debt Payments | | | 6.7 | 702 | • | | | • |
| Available for Investment | | | | ann in gR. | | | | |
| & Savings | | S-1 | 8.4 | 556 | Ś | | | ŝ |
| - Capital Purchases: cattl | e | ¥ V | -, . | | т | | | ۲ |
| machinery & improvement | · • · , | ¢1 | 7 (| 985 | | | | |
| Additional Canital Nacdad | • | Ϋ́ | • • • | | د | | | ¢ |
| Addicional Capital Meeded | | | | | Y | | | ۹ |
| | | | | | | | | |

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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 19 New York Dairy-Cash Crop Farms, 1984 and 1985

| Selected Factors 1984 1985 1984 1985 Size of Business Average number of cows 84 86 | Goal |
|---|------|
| Size of Business Average number of cows 84 86 | |
| Size of Business Average number of cows 84 86 Average number of heifers 77 76 Milk sold, 1bs. 1,309,111 1,341,962 Worker equivalent 3.34 3.50 Total tillable acres 437 451 | |
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| | |
| Rates of Production | |
| Milk sold per cow, lbs. 15,565 15,604 | |
| Hay DM per acre, tons 3.1 3.0 | |
| Corn silage per acre, tons 15 16 | |
| Labor Efficiency | |
| Cows per worker 25 25 | |
| Milk sold per worker, 1bs. 392,217 383,418 | |
| Cost Control | |
| Grain & conc. purchased | |
| as & of milk sales 14% 13% % | ş |
| Dairy feed & crop exp. | |
| per cwt. milk \$4.30 \$3.99 \$ \$ | |
| Labor & mach. costs/cow \$1,139 \$1,147 \$ \$ | |
| Capital Efficiency* | |
| Farm capital per cow \$8,230 \$8,164 \$ \$ | |
| Real estate per cow \$4,043 \$3,965 \$ \$ | |
| Mach. & equip. per cow \$1,653 \$1,694 \$ \$ | |
| Capital turnover, years 2.9 2.9 | |
| Profitability | |
| Net farm inc, w/o apprec, \$27,246 \$25,922 \$ \$ | |
| Net farm inc. w/apprec. \$40,331 \$33,604 \$ \$ | |
| Labor & mgmt, income \$4,066 \$2,609 \$ \$ | |
| Rate of return on eg. | |
| capital w/apprec. 3.2% 1.7% % | ş |
| Financial Summary | |
| Farm net worth \$454,132 \$455,262 \$ \$ | |
| Debt to asset ratio 0.35 0.34 | |
| Farm debt per cow \$2,846 \$2,732 \$\$ | |

*Average for the year.