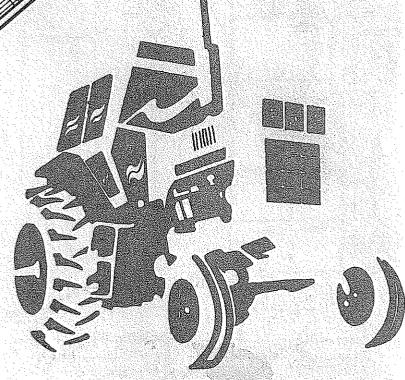
PERSONAL COPY OF:
Mr. Al Dalen

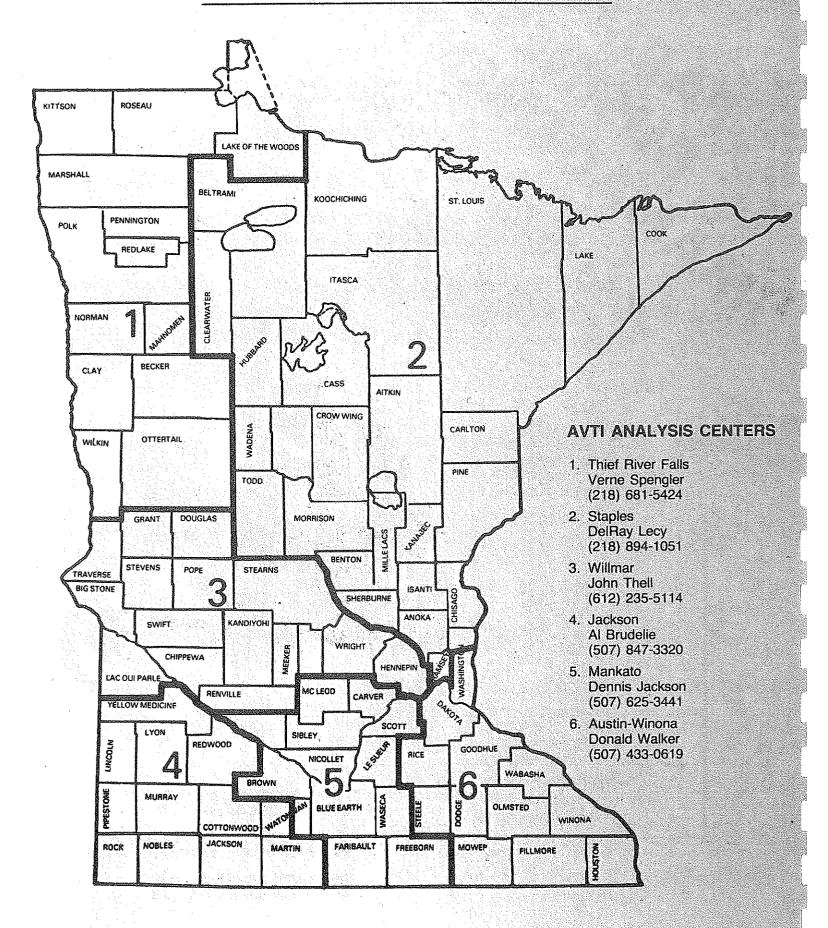
NORTHWESTERN MINNESOTA REPORT NO. 32 AREA VOCATIONAL TECHNICAL INSTITUTE THIEF RIVER FALLS, MINN.



In Cooperation With The
STATE BOARD OF VOCATIONAL
TECHNICAL EDUCATION AND
AGRICULTURAL EDUCATION DEPARTMENT
UNIVERSITY OF MINNESOTA

AN ADULT EDUCATIONAL PROGRAM

VO-AG FARM MANAGEMENT AREAS



1986 REPORT OF THE FARM MANAGEMENT PROGRAM FOR VOCATIONAL AGRICULTURE IN NORTHWESTERN MINNESOTA

HERE'S WHERE YOU'LL FIND THE INFORMATION

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^{*}Whole farm includes all landlords and operators.

INTRODUCTION

Adult Farm Business Management Education programs have been part of the public school vocational agriculture offerings since 1952. From the early cooperative efforts of the State Department of Education, Department of Agricultural Education (U. of Minn.) and the Department of Agricultural Economics (U. of Minn.), the program has expanded to serve over 4,500 farm families in six regional farm management areas. Programs are managed by the State Board of Vocational-Technical Education, AVTI's and local school districts.

From the very beginning the purpose of the farm management education part of the adult agriculture program was to help farm families achieve their farm business and family goals through improved management organization and efficiency of their farms. The purpose has not changed.

To accomplish the purpose, programs have been organized to generally conform to the following guidelines:

- 1. Farmers enroll in a specific farm management course.
- 2. Each course has a specific major objective and specific units of instruction to meet the objective.
- 3. Courses are offered in sequence, and farmers are expected to enroll in the first course and follow the sequence. They may continue enrollment in the advanced courses as long as they desire.
- 4. There is continuity between the courses; each one leads to the other.
- 5. Part of the instruction is done on the farm with the individual farm family.

Most programs organize their courses around the same central themes. They are:

- Year 1 Farm Business records and accounts.
- Year 2 Farm Business analysis and evaluation.
- Year 3 Farm Business organization.
- Advanced (For students who have completed years 1, 2 and 3.) In the advanced series of classes and on-farm instructional visits, the major emphasis is on evaluating the business, examining alternatives and continuing the reorganization of the resources used in the business.

Like most education programs, enrollees benefit from the instruction in relation to how much effort they put into study. But there have been some research studies that show that on the average, enrollees get some exciting results.

Of course, some farmers may have benefited more, and some less, depending upon how seriously they studied the results of their business analysis and the kind of decisions they made as a result of the study.

The analysis of the records and the preparation of the reports for Northwestern Minnesota were done under the direction of Verne Spengler of the Area Vocational-Technical Institute at Thief River Falls. The program is locally supervised by Dr. Leo Ruberto, Superintendent of the Thief River Falls Public Schools and by Dr. Orley Gunderson, Director of the Area Vocational-Technical Institute.

A special thank you is due the clerical staff: Shirley Koop, Bernie Burger, Myrna Giauque, Wilma Bornholdt, Rita Wald, Thief River Falls; Norma Ackerson, Barnesville; Patty Maruska, Fosston; Arlene Furuseth, Roseau; Carol Lockhart, Ulen; Suzie Bucholz, Moorhead; Becky Crary, Detroit Lakes; Jane Salber, Fertile and Verona Onstad, Ada.

Esther Mattson, our secretary, oversees the general operation of this office, including correspondence, billing and organization.

SCHOOLS PARTICIPATING

This report deals with farmers enrolled in 24 schools in Northwestern Minnesota. A list of cooperating schools and instructors follows:

Schools

Ada, Twin Valley Barnesville Baudette Detroit Lakes Fergus Falls Fertile Fosston Frazee Goodridge Hawley Henning Kittson County Mahnomen, Ulen, Twin Valley Moorhead Red Lake Falls Roseau, Badger, Warroad Thief River Falls, Plummer, Oklee, Red Lake Falls

Instructors

Peter Revier
Tom Risdal
Gerald Ausmus
Duane Lemmon
Allen Schoenbauer
Ron Salber
Doug Fjerstad
Ron Monson
Wayne Ditmer
Dennis Olsen
Charles Erickson
Mark Prosser
Mike Lockhart
Rick Morgan
Mark Berg
Duane Jaenicke
Al Dalen
Don Johnsen
Danie Packard

WHY KEEP RECORDS?

Systematic use of records seems to raise the managerial level of the farmers. Once a farmer starts using records to check up on his performance, it is likely that he will continue for some years to improve his position above that of his less systematic neighbor.*

*Britannica Research Service

300 Records were included in the average.

520 Records were processed.

Table 1 - Whole Farm Inventories, 1986

| <u>It</u> | ems ems | | Average | of 300 Farms | |
|-----------|--|----|--------------|----------------|---|
| 1 | Size of Farm - Total Acres | | 867.6 | | |
| 2 | - Tillable Acres | | 775.9 | | |
| 3 | Work Units - Crops | | 315.01 | | |
| 4 | - Livestock | | 144.00 | | |
| 5 | - Other | | 7.41 | | |
| 6 | Total Size of Business in Work Units | | 466.41 | | |
| 7 | Number of Workers | | 1.64 | | |
| 8 | Farm Capital Investment per Worker | \$ | 268148 | | |
| | Farm Capital Investment per Work Unit | \$ | 1034 | | |
| Ozs | rath capital investment per work only | Ÿ | 7.034 | | |
| | | | Jan. l | <u>Dec. 31</u> | |
| 9 | PRODUCTIVE LIVESTOCK | | | | |
| 10 | Dairy Cows | | 10071 | 9913 | |
| 11 | Other Dairy Cattle | | 5283 | 5334 | |
| 12 | Beef Breeding Cattle | | 6473 | 6424 | |
| 13 | Beef Feeder Cattle | | 2454 | 2823 | • |
| 13 14 | | | 2434 1510 | 1532 | |
| | Hogs | | | | |
| 15 | Sheep (Incl. Feeders) & Goats | | 389 | 323 | |
| 16 | Poultry - All Types | | | | |
| 17 | Other Livestock | ~ | 26100 | 26240 | |
| 18 | Total Productive Livestock | \$ | 26180 | 26349 | |
| | | | E1222 | 40000 | |
| 19 | CROP, SEED, FEED & SUPPLIES | • | 51323 | 49059 | |
| 20 | POWER, MACHINERY & EQUIPMENT | | | | |
| 21 | Auto & Truck (Farm Share) | | 6609 | 6518 | |
| 22 | Power & Machinery | | 44093 | 42172 | |
| 23 | | | 274 | 235 | |
| | Irrigation Equipment | | 332 | · · | |
| 24 | Custom Work Equipment | | | 245 | |
| 25 | Livestock Equipment | _ | 3481 | 3187 | |
| 26 | Total Power, Mach. & Equip. | \$ | 54789 | 52357 | |
| 27 | Land | | 284364 | 286039 | |
| 28 | Buildings-Fences-Etc. | | 26417 | 26018 | |
| 29 | Total Farm Capital | \$ | 443072 | 439821 | |
| 30 | Increase or Decrease in Total Farm Capital | | | \$ (-3251) | |

Table 1 lists the categories of farm capital for the average of farms and for the 60 most profitable and the 60 least profitable farms. These averages include the landlord's share of the investment for rented farms.

Livestock, crops, seed and feed reflect a conservative market price at the time the inventory is taken.

Machinery, equipment and building values reflect cost less depreciation.

The number of workers listed on line 7 includes the operator(s), hired labor and unpaid family labor as well as the labor portion of custom work hired.

Table 1 - Whole Farm Inventories, 1986

| | one i whole rain liveredies, 1900 | λ- | verage of | λτ | age of | |
|------|--|--------|------------|----------------------------|---|--|
| T+. | ems | | High Farms | Average of 60 Low Farms | | |
| 1.60 | alb | 00 | nigh raths | | w ralms | |
| 1 | Size of Farm - Total Acres | | 1226.6 | a | 14.6 | |
| 2 | - Tillable Acres | | 1135.8 | | 20.5 | |
| 3 | Work Units - Crops | | 530.53 | | 5.55 | |
| 4 | - Livestock | | 129.87 | | 0.89 | |
| 5 | - Other | | 16.68 | | 5.06 | |
| - 6 | Total Size of Business in Work Units | | 677.08 | | 1.49 | |
| 7 | Number of Workers | | 2.09 | · | 1.63 | |
| 8 | Farm Capital Investment per Worker | \$ | 315277 | | 3189 | |
| | Farm Capital Investment per Work Unit | | 969 | • | 1427 | |
| | Talli ouplant livou allors pour mourt office | т . | | | | |
| | | Jan. 1 | Dec. 31 | Jan. 1 | Dec. 31 | |
| | | | | | *************************************** | |
| 9 | PRODUCTIVE LIVESTOCK | | | | | |
| 10 | Dairy Cows | 9390 | 9623 | 3448 | 3545 | |
| 11 | Other Dairy Cattle | 4637 | 4759 | 25.05 | 2289 | |
| 12 | Beef Breeding Cattle | 4699 | 4755 | 8530 | 7273 | |
| 13 | Beef Feeder Cattle | 941 | 1261 | 3076 | 2440 | |
| 14 | Hogs | 1882 | 2496 | 1261 | 953 | |
| 15 | Sheep (Incl. Feeders) & Goats | 105 | 78 | 1058 | 997 | |
| 16 | Poultry - All Types | | | | | |
| 17 | Other Livestock | | | . 11 | | |
| 18 | Total Productive Livestock \$ | 21654 | 22972 | 19879 | 17497 | |
| | | | | | | |
| 19 | CROP, SEED, FEED & SUPPLIES | 99453 | 112191 | 65337 | 48055 | |
| ÷ | | | | | | |
| 20 | POWER, MACHINERY & EQUIPMENT | | | | | |
| 21 | Auto & Truck (Farm Share) | 11689 | 11494 | 8383 | 8462 | |
| 22 | Power & Machinery | 61710 | 66177 | 58926 | 52901 | |
| 23 | Irrigation Equipment | 395 | 352 | 356 | 310 | |
| 24 | Custom Work Equipment | 1653 | 1218 | | | |
| 25 | Livestock Equipment | 3182 | 3154 | 1203 | 1033 | |
| 26 | Total Power, Mach. & Equip. \$ | 78629 | 82396 | 68869 | 62706 | |
| 27 | Land | 406461 | 412471 | 350838 | 348979 | |
| 28 | Buildings-Fences-Etc. | 33220 | 34037 | 25850 | 25645 | |
| | | 4. | | | | |
| 29 | Total Farm Capital \$ | 639418 | 664067 | 530774 | 502881 | |
| | | | | | | |
| 30 | Increase or Decrease in Total Farm Ca | apital | \$ 24649 | | \$ (-27893) | |

Table 2A - Whole Farm Summary of Cash Receipts, 1986

| Items | | Average of 300 Farms | High 60 Farms | Low 60 Farms |
|---|-------|-------------------------|------------------|-----------------|
| 1 Sale of Livestock & Livestock Products | | | | |
| 2 Dairy Cows | \$ | 1981 | 1657 | 503 |
| 3 Dairy Products | Ÿ | 22213 | 21000 | 7578 |
| 4 Other Dairy Cattle | | 1575 | 1106 | 596 |
| 5 Beef Breeding Cattle | | 2823 | 2371 | 3369 |
| 6 Beef Feeder Cattle | | 2997 | 943 | 3050 |
| | | 863 | 243 | 573 |
| <u> </u> | | 1673 | 2791 | 1593 |
| | | 2127 | 4855 | 737 |
| | | 441 | 120 | 468 |
| - · · · · · · · · · · · · · · · · · · · | | 441 | 120 | 400 |
| 11 Sheep & Wool, Feeder Lambs 12 Chickens (Incl. Hens & Broilers) | | | | |
| · | | | | |
| - | | | | |
| 33 | | | | |
| | | 147 | | 8 |
| 16 Other Misc. Livestock Income | ċ | 36841 | 34843 | 0 18475 |
| 17 Total Sales of Productive Lvstk. | Ą | 30041 | 34043 | 10473 |
| 18 Sale of Crops | | | | |
| 18 <u>Sale of Crops</u> 19 Wheat | | 33818 | 74673 | 32312 |
| 19A Durum | | 33010 7 | 14013 | |
| 20 Other Small Grains | | | 23559 | 36 |
| 21 Corn | | 15412 4582 | | 20037 |
| 22 Soybeans | | 5909 | 7018 9093 | 4674 |
| 22A Sunflowers | | | • | 4452 |
| | | 1385 | 2147 | 2088 |
| en e | | 16925 | 51012 | 10960 |
| | | 920 | 668 | 1515 |
| 25 Grass Seed 26 Fruits & Nuts | | 507 | 1153 | 822 |
| | | 10 | | 27 |
| | | 18 | 457 | 27 |
| 28 Nursery, Timber & Other | | 98 | 451 | 26400 |
| 29 Set Aside Acres - Gov't. Payments | | 25114 | 42159 | 26498 |
| 29A PIK Acres 29B Sale of Crops & Supplies Pur. for Resa | . 7 . | 122 | | 100 |
| 2 22 | | 133 104829 | 211022 | 125 |
| 30 Total Sales From Crops & Supplies | jφ | 104029 | 211933 | 103545 |
| 31 Cap. Assets Sold (Auto/Trk./Mach.) | | 672 | 934 | 1026 |
| 31A Cap. Assets Sold (Bldgs. & Imprvmnts) | | 30 | 62 | 1.020 |
| 31B Cap. Assets Sold (Land) | | 1125 | 1558 | 1912 |
| 32 Gas Tax Refund | | 39 | 31 | 51 |
| 33 Income From Work Off The Farm | | 971 | 1306 | |
| | | 412 | 2051 | 1136 |
| 34 Custom Work Enterprise Income 35 Patronage Refunds | | 408 | 937 | 410 |
| 36 Miscellaneous Farm Income | | 6347 | | 418 |
| | Ċ | | 12606 | 6078 |
| 37 Total Farm Sales | \$ | 151674 | 266261 | 132640 |
| 38 Increase in Farm Capital | | | 24649 | |
| 39 Family Living from The Farm | | 370 | 331 | 196 |
| <u> </u> | 216 | 152044 | 291241 | 132836 |
| 40 Total Farm Receipts (37)+(38)+(39 | אן כ | エンとしませ | ムンエムサエ | T2%020 |

Table 2B - Whole Farm Summary of Cash Expenses, 1986

| Ite | ems | | rerage of 10 Farms | High 60 Farms | Low 60 Farms |
|-----|--|--------------|-----------------------|------------------|-----------------|
| 1 | Purchase of Livestock | | | | |
| 2 | Dairy Cows | \$ | 273 | 215 | |
| 3 | Other Dairy Cattle | Y | 194 | 165 | 30 |
| 4 | Beef Breeding Cattle | | 278 | 393 | 170 |
| 5 . | Beef Feeder Cattle | | 1490 | 632 | 366 |
| 6 | Hogs Complete & Mixed | | 11 | 002 | 23 |
| 7 | Hogs Finishing | | 319 | 981 | 3 |
| 8 | Hogs Producing Weaning Pigs | | 221 | 726 | 116 |
| 9 | Sheep & Goats | | 32 | 6 | 7 |
| 0 | Sheep, Feeder Lambs | | <i>4</i> 2 | O | |
| 1 | Chickens (Incl. Hens & Broilers) | | | * . | |
| 2 | Turkeys | | x = x + x = x | 4.3 | |
| 3 | Other Productive Livestock | | | * . | • |
| | Miscellaneous Livestock Expense | | 3005 | 2759 | 1298 |
| | Purc. of Crops/Supplies Purc. for Resal | le | 10185 | 26046 | 8204 |
| 5 | Feed Bought | | 7092 | 7802 | 3236 |
| 5 | Fertilizer | | 11131 | 19123 | 11905 |
| | Chemicals | | 6108 | 12159 | 6729 |
| | Other Crops Expense | | 9436 | 15854 | 10227 |
|) | Irrigation Operation Costs | | 11 | 21 | 27 |
| | Custom Work Enterprise Op.Costs, Inc.La | abor | 2 7 9 | 1392 | |
| | Custom Work Hired | J. 10 0 11.0 | 3659 | 5263 | 2744 |
| • | Repair & Upkeep of Livestock Equip. | | 641 | 977 | 220 |
| | Repair & Upkeep of Farm Real Estate | | 1047 | 1810 | 1035 |
| | Gas, Diesel & Lub. Bought (Farm Share) | | 6474 | 9325 | 6733 |
| 5 | Repair & Operation of Mach, Trac, Trk & A | Auto | 9521 | 14860 | 10180 |
| 5 | Repair & Upkeep of Irrigation Equipment | | | No. | 1 |
| 7 | Repairs - Custom Work Enterprise | | 52 | 258 | • |
| | Wages of Hired Labor | | 5672 | 8964 | 7421 |
|) | Personal Property & Real Estate Taxes | | 4413 | 7547 | 4726 |
| | General Farm Expense | | 3895 | 6480 | 4437 |
| L | Telephone Expense (Farm Share) | | 416 | 434 | 471 |
| 2 | Electricity Expense (Farm Share) | | 1676 | 2096 | 1379 |
| } | Total Cash Operating Expense | \$ | 87531 | 146290 | 81687 |
| | Power, Crop & Gen. Mach. Bought (Fm. Sh | n.) | 10669 | 21913 | 9889 |
| 5 | Irrigation Equipment Bought | , | | | |
| | Custom Work Equipment Bought | | | - | |
| 7 | Livestock Equipment Bought | | 403 | 466 | 122 |
| } | New Real Estate - Bldgs./Improvements | | 2334 | 4119 | 2787 |
| | New Real Estate - Land | | 2862 | 7013 | 583 |
|) | Total Farm Purchases (33) thru (3 | 38A)\$ 1 | .03799 | 179801 | 95068 |
|) | Decrease in Farm Capital | | 3034 | | 27893 |
| | Interest on Farm Capital (7 pct. Charge | ≘) | 30686 | 45622 | 36178 |
| 2 | Unpaid Family Labor | | 10 | | |
| } | Labor Chg. for Partners & Other Operato | ors | | | |
| 1 | Board Furnished Hired Labor | | 38 | 5 | 150 |
| 5 | Total Farm Exp. (39) thru (44) | | .37567 | 225428 | 159289 |
| 5 | Ret. to Op. Labor & MgmtSingle Op. (V (2A/40) - (45) | WF) \$ | 14477 | 65813 | (-26453) |
| 7 | Number of Operators | | 1 | 1 | 1 |
| 3 | Full Time Operator Equivalents | | 1.18 | 1.40 | 1.06 |
| 9 | Ret. to Op. Lab. & Mgmt/Full Time Op. Equ | aiv. | 11528 | 54625 | (-25543) |
| | (2B/43+46) Divided By (2B/48) | | | | |

Table 3 - Whole Farm Enterprise Statement, 1986

| tems | Average of 300 Farms | High 60 Farms | Low 60 Farms |
|--|--|--|--|
| | 300 202 | - County h 350 | |
| . Returns & Net Increases | | | |
| Productive Livestock | | | |
| Dairy Cows | \$ 21356 | 19898 | 7266 |
| Other Dairy Cattle | 4557 | 4333 | 1465 |
| Beef Breeding Cattle | 2901 | 2117 | 2960 |
| Feeder Cattle | 1508 | 599 | 1125 |
| Hogs, Complete & Mixed | 927 | | 548 |
| Hog Finishing Enterprise | 1038 | 1962 | 824 |
| Producing Weaning Pigs | 2175 | 4591 | 1100 |
| Sheep & Goats | 353 | 87 | 408 |
| Sheep, Feeder Lambs | | | |
| Chickens (Incl. Hens & Broilers) | • | | |
| Turkeys | | | |
| Other Productive Livestock | | | |
| Total All Productive Livestock | \$ 34814 | 33586 | 15696 |
| Value of Feed Fed to Livestock (Minus) | 15943 | 14742 | 9231 |
| Return Over Feed from Livestock | 18871 | 18844 | 6465 |
| Crop, Seed & Feed | 84434 | 184241 | 63122 |
| A Crops & Supplies Purc. for Resale (Net) | (-10052) | (-26046) | (-8079) |
| | The state of the s | for the first of t | programme and the second control of the seco |
| Cooperative Patronage Refunds | 408 | 937 | 418 |
| Miscellaneous Farm Income | 6347 | 12606 | 6078 |
| Custom Work Enterprise | (-7) | (-34) | 60000 |
| Total Returns & Net Increases | \$ 100002 | 190548 | 68003 |
| Expenses & Net Decreases | and the second of the second o | e ^r | |
| Truck & Auto (Farm Share) | \$ 5423 | 6235 | 5456 |
| Tractors & Crop Machinery | 24850 | 37960 | 27617 |
| Irrigation Equipment | 30 | 42 | 46 |
| Electricity | 1676 | 2096 | 1379 |
| Livestock Equipment | 1374 | 1581 | 529 |
| Buildings, Fences & Tiling | 3744 | 5050 | 4027 |
| Bare Land | (-5) | (-554) | 530 |
| Miscellaneous Livestock Expense | 3005 | 2759 | 1298 |
| Labor-Pd, Unpd, Custom Wrk (Excl. Cus.Lb | | 9483 | 7763 |
| | J J 00±0 | 2403 | 1103 |
| Labor Charge for Other Operator(s) | AATO | 7547 | 4706 |
| Property Tax General Farm Expense | 4413 | | 4726 |
| General Farm Expense | 3895 47.6 | 6480 | 4437 |
| A Telephone Expense Interest on Farm Capital (7 Pct. Charc | 416 | 434 | 471 |
| | | 45622 | 36178 |
| Total Expenses & Net Decreases | \$ 85525 | 124736 | 94456 |
| Return to Oper. Labor & Mgmt. (Single Op | .)\$ 14477 | 65813 | (-26453) |
| Number of Farm Operators | 1 | 1 | 1 |
| | 1.18 | 1.40 | 1.06 |
| Full Time Operators Equivalents Return to Opr. Lab & Mgmt./Full Time Opr | | 54625 | (-25543) |
| | | | |
| | $(-1)^{-1} = \{\frac{1}{2}, \frac{1}{2}, \dots, \frac{1}{2}\}$ | | |
| | | | |
| | | | \$ |
| | and the state of t | | 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - |
| ta. | en e | | |
| | | | and the second s |

Table 4 - Operators Household Expense, 1986

| Table 4 | - Operators Household Expense, 1986 | Average of | High 34 | Low 34 |
|----------|---|------------------|------------|------------|
| Items | | 174 Farms | Farms | Farms |
| 2 27 1 | | 4 | 4 | 4 |
| | r of Persons - Family | 4 3.1 | 4 3.3 | 4 3.0 |
| 2 Numbe | r of Adult Equivalent - Family | 2 • T | 3.3 | 3.0 |
| 3 Churc | h & Welfare | \$ 874 | 1640 | 867 |
| 4 Medic | al Care & Health Insurance | 2392 | 2727 | 2559 |
| 5 Food | & Meals Bought | 4004 | 4630 | 3827 |
| | ting Expense & Supplies | 2183 | 2555 | 2833 |
| | shings & Equipment | 7 9 0 | 946 | 841 |
| | ing & Clothing Materials | 1116 | 1445 | 1137 |
| | nal Care, Personal Spending | 1831 | 2407 | 1448 |
| 10 Educa | - | 838 | 1279 | 687 |
| 11 Recre | • | 211 | 157 | 473 |
| | & Special Events | 617 | 804 | 574 |
| | nal Interest | 257 | 998 | 331 |
| | nal Share Truck & Auto Expense | 762 | 885 | 658 |
| 14 Opera | tor Share Upkeep on Dwelling Rent (Personal) | 37 | 19 | 5 |
| | nal Share Tel. & Elec. Expense | 782 | 1029 | 585 |
| | nal Share - Gen. Farm Expense | 22 | 31 | |
| 16 | Total Cash Living Expense | \$ 16716 | 21553 | 16826 |
| 17 Perso | nal Share New Truck & Auto | 627 | 946 | 425 |
| | welling Bought | 985 | 221 | 589 |
| | & Other Deductions | 1660 | 2784 | 1382 |
| | Insurance | 1140 | 3012 | 1018 |
| 21 | Total HH & Pers. (16) thru (20) | \$ 21127 | 28516 | 20240 |
| 22 | Total Fam. Living from the Farm (33 | 3) 384 | 254 | 241 |
| 23 | Total Cash & Non-Cash Expense (21) + (22) | 21511 | 28770 | 20481 |
| 23A Paid | on Personal Debt | 27 | | |
| | qs & Investments (Excl. Life Ins.) | 1262 | 3960 | 489 |
| 23C | Total Cash/Non-Cash Funds for Pers. Use | \$ 22800 | 32731 | 20970 |
| 24 FAMIL | Y LIVING FROM THE FARM | | | |
| 25 | | OPER.SHARE | OPER.SHARE | OPER.SHARE |
| 26 Milb | & Cream (Quarts) | 386 | 317 | 182 |
| | & Buffalo (Pounds) | 547 | 277 | 348 |
| | , | 71 | 65 | 92 |
| | (Pounds) Mutton, Goat (Pounds) | r - | ~~ | |
| | ry, All Fowl (Pounds) | | | |
| | (Dozen) | | | |
| | Fruits, Spuds, Other Prod. & Fuel | | | |
| 33 | Total Family Living from the Farm | \$ 384 | 254 | 241 |

Household and personal accounts are important if the family is to manage its financial affairs wisely. The household and personal expenses and receipts are presented in Table 4. These farmers spent an average of \$ 21511 for family living, in addition to the food, fuel and housing furnished by the farm.

Table 5 - Statement of Financial Position - Operator, 1986

| Items | | Average (| of 291 Farms | |
|---|----------|--|--|--|
| | | Jan. l | <u>Dec. 31</u> | |
| <pre>1 Total Productive Livestock 2 Crop, Seed & Feed 3 Total Power, Mach. & Equip. 4 Land (Acres Owned 459.5)(Tillable 329.2) 5 Buildings, Fences, Etc. 6 Total Farm Capital</pre> | \$ \$ | 25216 49137 54267 161523 26032 316174 | 24967 47121 52061 163244 25557 312950 | |
| 7 Non-Farm Assets 7A Cash on Hand & In Bank 7B Non-Farm Real Estate 8 Dwelling 9 Total Assets 10 Real Estate Mortgages 11 Chattel Mortgages 12 Notes | \$ | 23990 11286 678 24808 376936 122794 77967 10462 | 25343 13957 726 25396 378372 120638 76727 12206 | |
| 13 Accounts Payable 14 Total Liabilities | \$ | 2341 213563 | 2333 211904 | |
| 15 Farmers Net Worth 16 Gain (or Loss) in Net Worth | \$ | 163373 | 166468 \$ 3095 | |
| SUPPLEMENTARY MANAGEMENT INFORMATION Return to Op. Labor & Mgmt. (6B/47) Return to Cap. & Family Labor(6B/48) Non-Farm Income Outside Investment Income Other Pers. Income & Income Tax Ref. Sale of (P.S.) Dwelling, Auto & Trk. Total Non-Farm Income | \$ | 10808 16444 1631 7707 94 9432 | | |
| Total Family Farm & Non-Farm Inc. Total Money Borrowed (Business & Pers.) Total Paid on Debt (PrinBusiness Only) Total Cash/Non-Cash Exp./Pers. Use(4/23C) Ratio: Total Farm-Exp. to Rec. (O.S.) | P | 25876 63177 65009 23067 .932 Jan. 1 | <u>Dec. 31</u> | |
| 29 Ratio: Total-Assets to Liabilities 30 Ratio: Non-Real Estate-Assets to Liab. 31 Ratio: Real Estate-Assets to Liab. 32 Ratio: Net Worth to Total Liab. *33 Ratio: Cash Op. Exp.to Adj.Total FmSls(O.S.) 34 Ratio: Total Fm.Rec.to Av. Farm Cap. (W.S.) 35 Ratio: Total Fm.Rec.to Av. Farm Cap. (O.S.) 36 Inventoried Value of Farm Per Owned Acre 37 Inventoried Value of Farm Per Tillable Acre 38 Debt (All Sources) Per Acre Owned *Adjusted farm sales does not include sale of cap | | 1.765 1.806 1.735 .765 | 1.786 1.791 1.782 .786 .771 .367 .506 466 543 461 | |

^{**}Items 1-5 show the distribution of capital invested by the operator in the farm business. All assets are based upon the modified cost (cost minus depreciation). Land may have been adjusted to reflect long term changes in value.

Table 5 - Statement of Financial Position - Operator, 1986

| Ite | NTC STATE | Hig Far | gh 58 me | Low 58 Farms | | |
|-----------|--|-------------------|----------------|-----------------|----------------|--|
| 776 | ens | | | | | |
| | ASSETS | <u>Jan. l</u> | <u>Dec. 31</u> | <u>Jan. l</u> | <u>Dec. 31</u> | |
| 1 | Total Productive Livestock | \$ 23566 | 24441 | 19620 | 16417 | |
| | Crop, Seed & Feed | 91724 | 106689 | 67772 | 49422 | |
| 3 | Total Power, Mach. & Equip. | 77597 | 81331 | 68203 | 60756 | |
| 4 | Land(Acres Owned 557.8)(Tillable 393.0) | 235797 | 241869 | | | |
| 5 | Buildings, Fences, Etc. | 32529 | 32856 | | | |
| 6 | Total Farm Capital | \$ 461212 | 487185 | | | |
| 7 | Non-Farm Assets | 44606 | 46758 | | 26332 | |
| 7A | Cash On Hand & In Bank | 20226 | · · | 10924 | 14250 | |
| 7B | Non-Farm Real Estate | 959 | | 605 | | |
| 8 | Dwelling | | 32976 | | | |
| 9 | Total Assets | \$ 559896 | 590329 | 460918 | 434698 | |
| | LIABILITIES | | | | | |
| 10 | Real Estate Mortgages, Contracts | 182132 | 174219 | 124423 | 118506 | |
| 11 | Chattel Mortgages | 99795 | 95532 | 87299 | 88661 | |
| 12 | Notes | 16189 | 18897 | 9777 | 11016 | |
| 13 | Accounts Payable | 2279 | 1751 | 1293 | 1433 | |
| 14 | Total Liabilities | \$ 300395 | 290399 | 222792 | 219615 | |
| 15 | NET WORTH | \$ 259501 | 299930 | 238126 | 215083 | |
| 16 | Gain (or Loss) in Net Worth | | \$ 40429 | | \$ (-23042) | |
| | The Court of the C | | | | | |
| 17 | SUPPLEMENTARY MANAGEMENT INFORMATION | \$ 57158 | | (-27185) | | |
| 18 | Return to Op. Labor & Mgmt. (6B/47) | \$ 57±56 63556 | | (-14717) | | |
| 19 | Return to Cap. & Family Labor (6B/48) | 03330 | | (-14,1) | | |
| 20 | Non-Farm Income Outside Investment Income | 3176 | | 1496 | | |
| 21 22 | Other Pers. Income & Income Tax Ref. | 7181 | | 11133 | | |
| 22A | | | | | | |
| 22A 23 | | \$ 10637 | | 12628 | | |
| 23 24 | Total Family Farm & Non-Farm Inc | • | | (-2089) | | |
| 25 | Total Money Borrowed (Bus. & Pers.) | 78279 | | 58080 | | |
| 25 26 | Total Paid on Debt (Prin.) - Bus. Only | 88416 | | 61098 | | |
| 26 267 | Total Paid on Debt (Int.) | 00 120 | | | | |
| 20A 27 | Total Cash/Non-Cash Exp/Pers. Use(4/230 | 34359 | | 22662 | | |
| 28 | Ratio: Total Farm-Expenses to Rec. (0.5 | • | | 1.195 | | |
| 20 | Ideto. Ioed Iden Expenses to 1.00. (ev. | Jan. 1 | Dec. 31 | Jan. l | Dec. 31 | |
| 29 | Ratio: Total-Assets to Liabilities | 1.864 | 2.033 | 2.069 | 1.979 | |
| 30 | Ratio: Non-Real Estate-Assets to Liab. | | 2.424 | 1.947 | 1.653 | |
| 31 | Ratio: Real Estate-Assets to Liab. | 1.659 | 1.772 | 2.165 | 2.257 | |
| 32 | Ratio: Net Worth to Total Liab. | .864 | 1.033 | 1.069 | .979 | |
| *33 | Ratio: Cash Op.Ex. to Adj.Total FmSls | (O.S.) | .740 | | .807 | |
| 34 | Ratio: Total Fm.Rec.to Av.Fm.Capital | | .419 | | .298 | |
| 35 | Ratio: Total Fm.Rec.to Av.Fm.Capital | | .622 | | .365 | |
| 36 | Inventoried Value of Farm Per Owned Acr | | 552 | | 477 | |
| 37 | Inventoried Value of Farm Per Tillable | | 618 | | 555 | |
| 38 | Debt (All Sources) Per Acre Owned | | 521 | | 392 | |
| | justed farm sales does not include sale | of capital | assets. | | | |

^{*}Adjusted farm sales does not include sale of capital assets.

^{**}Items 1-5 show the distribution of capital invested by the operator to the farm business. All assets are based upon the modified cost (cost minus depreciation). Land may have been adjusted to reflect long term changes in value.

Table 6A - Operators Share of Cash Receipts, 1986

| <u>ra</u> | Table 6A - Operators Share of Cash Receipts, 1986 | | | | | | | | |
|-----------|---|-------|---------------------|--|-----------------|--|--|--|--|
| J+ | ems | | erage of O Farms | High 60 Farms | Low 60 Farms | | | | |
| | | | Liber 4 E bles/ | The state of the s | | | | | |
| 1 | Sale of Livestock & Livestock Products | | | | | | | | |
| 2 | Dairy Cows | \$ | 1959 | 2343 | 979 | | | | |
| 3 | Dairy Products | | 21771 | 27158 | 8128 | | | | |
| 4 | Other Dairy Cattle | | 1522 | 1275 | 763 | | | | |
| 5 | Beef Breeding Cattle | | 2707 | 2114 | 3172 | | | | |
| 6 | Beef Feeder Cattle | | 2962 | 594 | 2692 | | | | |
| 7 | Hogs Complete & Mixed | | 861 | 2019 | 573 | | | | |
| 8 | Hogs Finishing | | 1637 | 2984 | 1434 | | | | |
| 9 | Hogs Producing Weaning Pigs | | 2114 | 4855 | 973 | | | | |
| 10 | Sheep, Goats & Wool, Farm Flock | | 417 | 120 | 356 | | | | |
| 11 | Sheep & Wool, Feeder Lambs | | | | | | | | |
| 12 | Chickens (Inc. Hens & Broilers) | | | | | | | | |
| 13 | Turkeys | | | | | | | | |
| 14 | Eggs | | | | | | | | |
| 15 | Other Prod. Livestock & Products | | | | _ | | | | |
| 16 | Other Misc. Livestock Income | | 146 | | 8 | | | | |
| 17 | Total Sales of Productive Lvsk. | \$ | 36095 | 43463 | 19078 | | | | |
| | | | | | | | | | |
| 18 | Sale of Crops | | ~~~~ | | | | | | |
| 19 | Wheat | | 33085 | 66643 | 36287 | | | | |
| 19A | | | 7 | | 36 | | | | |
| 20 | Other Small Grain | | 14896 | 22174 | 18170 | | | | |
| 21 | Corn | | 4966 | 7943 | 7122 | | | | |
| 22 | Soybeans | | 5891 | 7236 | 6600 | | | | |
| 22A | | | 1380 | 1642 | 1977 | | | | |
| 23 | Other Row Crops | | 16457 | 51772 | 10219 | | | | |
| 24 | Legumes & Other Roughage | | 907 | 612 | 884 | | | | |
| 25 26 | Grass Seed | | 505 | 1494 | 822 | | | | |
| 26 | Fruits & Nuts | | 3.0 | | | | | | |
| 27 | Vegetables, Roadside Market & Specialt | ΞУ | 18 | 451 | | | | | |
| 28 | Nursery, Timber & Other | | 98 | 451 | 26570 | | | | |
| 29 29A | Set Aside Acres - Gov. Payments | | 25130 | 40288 | 26579 | | | | |
| | | | 122 | | 125 | | | | |
| 29B | | | | 200255 | | | | | |
| 30 | Total Sales from Crops & Supplies | 2 5 T | .03472 | 200255 | 108821 | | | | |
| 21 | Cap. Assets Sold (Auto/Trk/Mach) | | 778 | 1469 | 1039 | | | | |
| | Cap. Assets Sold (Adto/Trk/Mach) Cap. Assets Sold (Bldgs. & Improvements) | | 30 | 62 | T039 | | | | |
| | Cap. Assets Sold (Land) |) | 821 | 932 | 1912 | | | | |
| | Gas Tax Refund | | 38 | 12 | 49 | | | | |
| 33 | Income From Work Off the Farm | | 962 | 1299 | 995 | | | | |
| | Custom Work Enterprise Income | | 410 | | 2051 | | | | |
| | Patronage Refunds | | 398 | 925 | 402 | | | | |
| | Misc. Farm Income | | 6316 | 10624 | 6748 | | | | |
| 37 | Total Farm Sales | \$ 1 | 49322 | 259041 | 141095 | | | | |
| 57 | TOTAL PARTE DATES | Υ 1 | .47322 | 20001111 | | | | | |
| 38 | Increase in Farm Capital | | | 25026 | | | | | |
| 39 | Family Living From the Farm | | 369 | 350 | 205 | | | | |
| 40 | Total Farm Receipts(37)+(38)+(39) | \$ 1 | | 284417 | 141300 | | | | |
| 10 | 10001 10111 10001pcb(3//T(30)T(39) | , ~ | | | | | | | |
| 41 | Adjusted Total Farm Sales (37) - (31) | 1 | 47693 | 256578 | 138144 | | | | |
| 41 | | | .14312 | 191217 | 112220 | | | | |
| 43 | Total Cash Farm Operating Expense(6B/35) Net Cash Operating Income | | 33381 | 65362 | 25924 | | | | |
| マン | net cash operating income | ٠, ٢ | JJJ01 | 05302 | ムリノムコ | | | | |

Table 6B - Operators Share of Cash Expenses, 1986

| Ιtє | ems | Average of 300 Farms | High 60 Farms | Low 60 |
|---------|--|-------------------------|------------------|---------------|
| عا بال | ALLO | JOV FAIRS | rains | Farms_ |
| 1 | Purchase of Livestock | | | |
| 2 | Dairy Cows | \$ 262 | 215 | |
| 3 | Other Dairy Cattle | 190 | 200 | 144 |
| 4 | Beef Breeding Cattle | 250 | 340 | 136 |
| 5 | Beef Feeder Cattle | 1211 | 445 | 353 |
| 6 | Hogs Complete | 11 | · | 23 |
| 7 | Hogs Finishing | 318 | 997 | |
| 8 | Hogs Producing Weaning Pigs | 220 | 726 | 119 |
| 9 | Sheep, Farm Flock | 31 | 3 | 7 |
|) | Sheep, Feeder Lambs | | | • |
| L | Chickens | | | |
| 2 | Turkeys | | • | |
| 3 | Other Productive Livestock | | | |
| 1 | Miscellaneous Livestock Expense | 2965 | 3622 | 1164 |
| | Purc. of Crops/Supplies Purch. for Resale | | 23175 | 9691 |
| 5 | Feed Bought | 6948 | 9919 | 3125 |
| , 5 | Fertilizer | 11003 | 17595 | 3125 12997 |
| 7 | Chemicals | 6075 | 12282 | 6918 |
| 3 | Other Crop Expense | 9331 | 15192 | 11601 |
|) | Irrigation Operation Cost | 9331 12 | 15192 | |
|) | Custom Work Oper. Cost, Incl. Labor | 278 | 20 | 1202 |
| l. | Custom Work Hired | 3586 | 5768 | 1392 |
| r. 2 | Repair & Upkeep of Lvstk. Equipment | 638 | 1156 | 2412 |
| 3 | Repair & Upkeep of Farm Real Estate | · · | | 428 |
| ļ | Gas, Diesel & Lubricants (Farm Share) | 1037 | 1672 | 1071 |
| * 5 | | 6427 | 9003 | 6874 |
| | Repair & OpMach., Trac., Trk., Auto(F.S.) | 9448 | 14384 | 10220 |
| 6 7 | Repair & Upkeep of Irrigation Equip. | ۳a | | 1 |
| | Repairs, Custom Work Enterprise | 52 | 0.000 | 258 |
| 3 | Wages of Hired Labor | 5629 | 9682 | 7277 |
| 9 | Personal Prop. & Real Estate Taxes | 2701 | 4987 | 3153 |
|) | Cash Rent | 13093 | 23135 | 11689 |
| 1 | General Farm Expenses | 3881 | 6035 | 5075 |
| 2 | Telephone Expense (F.S.) | 411 | 470 | 488 |
| 3 | Electricity Expense (F.S.) | 1667 | 2435 | 1505 |
| 4 | Interest Actually Paid | 16492 | 27751 | 14073 |
| 5 | Total Cash Operating Expense | \$ 114312 | 191217 | 112220 |
| 5 | Power, Crop & Gen. Mach. Bought (F.S.) | 10586 | 20973 | 8670 |
| 7 | Irrigation Equipment Bought | | | |
| 3 | Custom Work Enterprise Equip. Bought | | | _ |
| 9 | Livestock Equipment Bought | 399 | 458 | 144 |
|) | New Real Estate-Bldg./Improvements | 2327 | 3380 | 2496 |
| | New Real Estate - Land | 2852 | 6689 | 850 |
| L | Total Farm Purch. (35) thru (40A) | \$ 130476 | 222716 | 124380 |
| 2 | Decrease in Farm Capital | 2877 | | 31499 |
| 3 | Interest on Farm Capital(7 pct. Charge) | 5476 | 4925 | 12849 |
| 1 | Unpaid Family Labor | 10 | | |
| 5 | Board Furnished Hired Labor | 37 | | 150 |
| 6 | Total Farm Expense (41) thru (45) | \$ 138876 | 227641 | 168878 |
| 7 | Return to Op. Labor & Mgmt. (O.S.) (6A/40)-(46) | \$ 10815 | 56776 | (-27578) |
| 3 | Return to Cap. & Fam.Labor(47)+(44)+(43) | \$ 16301 | 61701 | (-14729) |

Table 8 - Measures of Farm Organization, 1986

| Ta | ble 8 - Measures of Farm Organization, 1986 | | | | ···· |
|--------------|--|-------|----------|---------|----------|
| | | | erage of | High 60 | Low 60 |
| It | ems | 300 |) Farms | Farms | Farms |
| | | | | | |
| 1 | Return to Operators Labor & Mgmt. | \$ | 10815 | 56776 | (-27578) |
| 2 | Crop Yield Index | | 100.0 | 99.2 | 102.7 |
| 3 | Percent Tillable Land in High Return Crops | | | | |
| 4 | Gross Return/Tillable Acre (Exc. Past.) | \$ | 136.48 | 170.79 | 121.65 |
| 5 | Return per \$100 Feed Fed Prod.Lvstk.Index | • | 100.0 | 106.6 | 84.6 |
| *6 | Livestock Units per 100 Acres | | 5.53 | 3.23 | 3.69 |
| 7 | Size of Business - Work Units | | 465.43 | 677.08 | 391.49 |
| 8 | Work Units per Worker | | 283.80 | 323.96 | 240.18 |
| 9 | - | | 80.03 | 79.52 | 99.76 |
| | Power, Mach., Equip., Bldg. Exp./Worker Unit | ~ | | | |
| 10 | Farm Capital Investment per Worker | \$ | 268374 | 311838 | 317072 |
| | m 7 | | | | |
| 11 | Index of Return per \$100 Feed Fed | | | | |
| 12 | 6100A Beef Breeding Farm, Whole Herd, Com | | 100.0 | 92.0 | 89.9 |
| 13 | 6120A Beef Breeding Farm, Whole Herd, Pureb | red · | 100.0 | 154.0 | 59.2 |
| 14 | 6140A Beef Feeders Feedlot | | 100.0 | 101.7 | 71.4 |
| 15 | 6290A Dairy Cows, Comm., General | | 100.0 | 108.5 | 92.0 |
| 16 | 6310A Other Dairy, Comm., Replacements | | 100.0 | 102.2 | 79.0 |
| 17 | 6470A Hogs, Farrow, Finish, General | | 100.0 | 108.6 | 71.2 |
| 18 | 6490A Hogs, Finishing | | 99.9 | 102.3 | 111.3 |
| 19 | 6510A Hogs, Weaning Pig Production | | 100.0 | | 104.7 |
| 20 | 6670A Sheep, Farm, Commercial | | 100.0 | | 78.0 |
| 20 | ooron bicep, rain, connected | | 100.0 | | 70.0 |
| 30 | Number of Animal Units | | 43.62 | 37.51 | 30.60 |
| | | | 15,02 | 37.01 | 30.00 |
| 31 | Work Units | | | | |
| 32 | Crops | | 314.24 | 520.53 | 315.55 |
| 33 | Productive Livestock | | 143.80 | 129.87 | 70.89 |
| 34 | Other Productive Work Units | | 7.38 | 16.68 | 5.06 |
| J- | Other froductive work offics | | 7.50 | 10.00 | 3.00 |
| 35 | Expense Per Work Unit | | | | |
| 36 | Tractor & Crop Machinery Expense | ~ | 52 66 | E7 06 | 70 66 |
| 37 | | \$ | 53.66 | 57.06 | 70.66 |
| | Farm Share of Auto & Truck Expense | \$ | 11.71 | 9.36 | 13.94 |
| 38 | Farm Share of Electric Expense | \$ | 3.62 | 3.15 | 3.52 |
| 39 | Livestock Equipment Expense | \$ | 2.96 | | 1.35 |
| 40 | Building, Fence & Tiling Expense | \$ | 8.08 | 7.58 | 10.29 |
| 40A | Other Exp./Work Units (Inc. Custom Ent.) | | | | |
| 40B | Gen. Farm Tele/Other Util.(Exc.Elect.) | \$ | 9.32 | 10.21 | 12.54 |
| 40C | Hired Labor | \$ | 12.17 | 13.24 | 18.96 |
| ** 41 | Tractor & Crop Mach. Exp./Crop Acre | \$ | 32.04 | 33.42 | 33.63 |
| 42 | Farm Power & Mach. Cost Alloc. to Lvsk. | \$ | 2279.68 | 2864.23 | 1045.13 |
| 43 | Bldg., Fence & Tiling Cost Alloc.to Crops | \$ | 3363.10 | 4622.60 | 3838.88 |
| _ | BCAF 1 | T | | | |
| | | | | | |

^{*}Acres include all tillable land, non-tillable hay & pasture.

**Acres include all tillable land plus acres in non-tillable hay.

THERMOMETER CHART
from
Table 8
Measures of Farm Organization

| Return to Labor & Mgmt. (Op.Share) (line 1) | Crop Yields (line 2) | Gross Ret. Per Till. A. (line 4) | Ret. From Prod. Lvstk. (line 5) | Prod. Lvstk. Units/ 100 A. (line 6) | Work Units (line 7) | Work Units Per Worker (line 8) | Pw. Mach. Eq. & Bldg. Exp. Per Work Unit (line 9) |
|---|----------------------------|--|---|---|---------------------------|--|---|
| \$ 70000 | 160 | 195 | 130 | 8.5 | 770 | 345 | 50 |
| \$ 60000 | 150 | 185 | 125 | 8.0 | 720 | 335 | 55 |
| \$ 50000 | 140 | 175 | 120 | 7.5 | 670 | 325 | 60 |
| \$ 40000 | 130 | 165 | 115 | 7.0 | 620 | 315 | 65 |
| \$ 30000 | 120 | 15/5 | 110 | 6.5 | 570/ | 305 | 70 |
| \$ 20000 | 110 | 145 | 105 | 6.0 | 520 | 295 | 75 |
| \$ 10815 | 100 | 136 | 100 | 5.5 | 4/65 | 284 | 80 |
| \$ 0 | 99 | 125 | 95 | 5.0 | 420 | 275 | 85 |
| \$-10000 | /80 | 115 | · \ 90 | 4.5 | / 379 | 265 | 90 |
| \$-20000 | 70 | 105 | 85 | 4.0 | 320 | 255 | 95 |
| \$-30000 | 60 | 95 | 80 | 3.5 | 270 | 245 | 100 |
| \$-40000 | 50 | 85 | 75 | 3.0 | 220 | 235 | 105 |
| \$-50000 | 40 | 75 | 70 | 2.5 | 170 | 225 | 110 |
| | | | | | | | |

A farm's standing with respect to the various measures of farm organization and management efficiency can be charted with the thermometer above. The averages for the 300 farmers included in this summary are located between the dotted lines across the center of this page. Most profitable farms are indicated by a solid line while the least profitable are indicated by a broken line. Data for individual farms is found on your adjoining Table 8.

CROP ANALYSES

The crop analyses on the following pages show the yield, value per unit, crop product return, other crop income and total crop return for crops commonly grown in Northwestern Minnesota. Other crop income may include such items as government deficiency payments, sale of straw, and hail or crop insurance proceeds.

Direct costs such as fertilizer, chemicals, seed, hired labor, custom work and crop insurance premiums are costs that can be assigned to each individual crop in the account book.

"Allocated Costs" are a combination of cash and non-cash expenses and may be either calculated or assigned. A proportion of the total ownership and operation costs of power and machinery is calculated for each crop by using the work unit value for that crop. The farmer may modify this cost by assigning a specific power cost allocation factor (PCAF) for each crop. Land cost for rented land is the actual cash or share rent paid. Land cost for owned land is interest on investment plus real estate taxes paid.

Table 9 - Crop Acres and Yields, 1986

| Table 7 Clop reles and Heras, 1700 | No. Farms | Average | Average |
|------------------------------------|--------------|---------|------------|
| Crop | Growing Crop | Acres | Yield/Acre |
| | , | | |
| Barley | 274 | 111 | 53.4 bu. |
| Buckwheat | 9 | 28 | 3.7 cwt. |
| Flax | 24 | 55 | 14.1 bu. |
| Oats | 84 | 39 | 50.3 bu. |
| Rye | 4 | 61 | 34.0 bu. |
| Spring Wheat | 493 | 138 | 34.1 bu. |
| Winter Wheat | 18 | 39 | 30.3 bu. |
| Pinto Beans | 4 | 120 | 11.7 cwt. |
| Corn | 223 | 46 | 83.5 bu. |
| Potatoes | 6 | 93 | 124.0 cwt. |
| Soybeans | 180 | 71 | 34.4 bu. |
| Sunflowers | 47 | 95 | 13.9 cwt. |
| Sugar Beets (1) | 66 | 141 | 43.6 cwt. |
| Alfalfa Hay | 142 | 67 | 3.6 tons |
| Other Legume Hay | 105 | 94 | 2.3 tons |
| Red Clover Seed | 6 | 54 | 308 lbs. |
| Bluegrass Seed | 4 | 138 | 319 lbs. |
| Timothy Seed | 13 | 75 | 300 lbs. |
| Corn Silage | 105 | 30 | 10.9 tons |
| Summer Fallow | 292 | 122 | |

Supplementary Management Information

| Items | Average of 300 Farms | High 60 Farms | Low 60 Farms |
|---------------------------------------|-------------------------|------------------|-----------------|
| Percent Land Tillable | 89.4 | 92.6 | 89.7 |
| Fertilizer Cost Per Acre (2) | 17.49 | 19.72 | 17.80 |
| Crop Chemicals Per Acre (2) | 9.27 | 12.19 | 8.37 |
| Seed & Other Costs Per Acre (2) | 13.07 | 15.43 | 12.45 |
| Gas, Diesel & Lubricants Per Acre (2) | 11.29 | 10.74 | 10.92 |
| Repair & Maint. Cost/Acre (2) | 16.06 | 16.70 | 16.03 |

- (1) Sugar beet yield and price is listed in hundred weight of extractable sugar per acre.
- (2) Tillable Land (-) Tillable Pasture, Fallow & Idle Land

Table 10 - Crop Data for Barley, 1986

| | 10010 10 Clop Bata 101 Bariey, 1900 | | | | |
|--------------|--------------------------------------|----|-----------|------------|----------|
| | | Æ | verage of | 55 High | 55 Low |
| | | 2 | 74 Farms | Farms | Farms |
| It | ems | Pe | er Acre | Per Acre | Per Acre |
| * | | | | | |
| 1 | Acres | | 110.7 | 108.6 | 69.7 |
| 2 | Yield | | 53.4 | 72.1 | 32.8 |
| 3 | Value per Bushel | | 1.47 | 1.68 | 1.30 |
| 4 | Crop Product Return | Ċ | 78.55 | 121.14 | |
| 5 | Other Crop Income | ې | 50.53 | 66.20 | |
| 6 | - | ~ | | | 28.54 |
| Ø | Total Crop Return | Þ | 129.08 | 187.34 | 71.18 |
| 7 | DIDECT COCHE | | | | |
| 8 | DIRECT COSTS | | 10.00 | | · |
| | Fertilizer | \$ | | 19.63 | 17.62 |
| 9 | Chemicals | | 6.43 | 7.23 | 4.72 |
| 10 | Seed | | 6.38 | 6.42 | 6.00 |
| 10A | ~ 4 5 | | .33 | .27 | .27 |
| 10B | | | 2.82 | 3.53 | |
| 11 | Special Hired Labor | | .50 | .03 | 2.70 |
| 12 | Custom Work Hired | | 2.35 | 2.77 | 2.48 |
| 13 | Irrigation Operation | | | Section 1 | |
| 14 | Total Direct Costs | \$ | 37.07 | 39.88 | 36.36 |
| 15 | Return Over Direct Costs | \$ | 92.01 | 147.46 | 34.82 |
| 16 | ALLOCATED COSTS (DIRECT & FIXED) | | | n etgelis. | |
| 17 | Farm Power & Mach Ownership | \$ | 11.37 | 11.11 | 10.91 |
| 18 | Farm Power & Mach Operation | ~ | 15.32 | 15.10 | 14.74 |
| 19 | | | 13.52 | 10.10 | T.4. / 4 |
| 20 | Irrig. Equip. Ownership | | 37.99 | 52.62 | 31.96 |
| 20 21 | Land Costs | | .19 | | |
| | Miscellaneous Costs | | | .19 | .23 |
| *22 | Interest on Mach. & Equip. Invst. | _ | 3.49 | 3.70 | 2.69 |
| 23 | Total Allocated Costs | | | 82.72 | 60.53 |
| 24 | Return Over All Listed Costs | \$ | 23.65 | 64.74 | (-25.71) |
| 25 | SUPPLEMENTARY MANAGEMENT INFORMATION | | igar dist | | |
| 26 | Work Units Assigned per Acre | | .30 | .30 | .30 |
| 27 | Power Costs Allocation Factor | | 1.00 | 1.00 | 1.00 |
| 28 | Total Listed Cost per Unit of Prod. | | 1.97 | 1.70 | 2.95 |
| 29 | Return Over Listed Costs per Unit | | .44 | .90 | (78) |
| 30 | Breakeven Yield/Units of Prod. | | 71.7 | 73.0 | 74.5 |
| 30A | | | | | |
| 30A | Estimated Total Mach. Cost/Acre | ~ | 31.75 | 31.76 | 29.99 |
| 2T | Total Listed Costs per Acre | \$ | 105.43 | 122.60 | 96.89 |

^{*}Does not include interest on investment in irrigation equipment. Lines 13, 17, 18 & 22 were allocated to this crop by special formula.

Table 10 - Crop Data for Buckwheat, 1986

| <u>It</u> | ems | Average of 9 Farms | |
|-----------|---|--------------------|--|
| 1 | Acres | 27.9 | |
| 2 | Yield | 3.7 | |
| | Value per CWT | 6.28 | |
| 4 | Crop Product Return | \$ 23.19 | |
| 5 | Other Crop Income | ÷ 20042 | |
| 6 | Total Crop Return | \$ 23.19 | |
| U | rocar crop heran | ų 23°±3 | |
| 7 | DIRECT COSTS | | |
| 8 | Fertilizer | , ex | |
| 9 | Chemicals | | |
| 10 | Seed | \$ 7.78 | |
| 10A | | | |
| 10B | Other Expense | | |
| 11 | Special Hired Labor | | |
| 12 | Custom Work Hired | | |
| 13 | Irrigation Operation | | |
| 14 | Total Direct Costs | \$ 7 . 78 | |
| 15 | Return Over Direct Costs | \$ 15.41 | |
| | | | |
| 16 | ALLOCATED COSTS (DIRECT & FIXED) | | |
| 17 | Farm Power & Mach Ownership | \$ 10.59 | |
| 18 | Farm Power & Mach Operation | 14.74 | |
| 19 | Irrig. Equip. Ownership | | |
| 20 | Land Costs | 31.33 | |
| 21 | Miscellaneous Costs | | |
| *22 | Interest on Mach. & Equip. Invst. | 1.97 | |
| 23 | Total Allocated Costs | \$ 58.63 | |
| 24 | Return Over All Listed Costs | \$ (-43.22) | |
| 25 | SUPPLEMENTARY MANAGEMENT INFORMATION | | |
| 26 | Work Units Assigned per Acre | .30 | |
| 27 27 | Power Costs Allocation Factor | 1.00 | |
| 28 | Total Listed Cost per Unit of Prod. | 17.98 | |
| 26 29 | - | (-11.70) | |
| 30 | Return Over Listed Costs per Unit Breakeven Yield/Units of Prod. | 10.6 | |
| 30A | Estimated Total Mach. Cost/Acre | 27.30 | |
| 31 | Total Listed Costs per Acre | \$ 66.41 | |
| J. | Total mister costs ber were | Y OVOTAL | |

^{*}Does not include interest on investment in irrigation equipment. Lines 13, 17, 18 & 22 were allocated to this crop by special formula.

Table 10 - Crop Data for Flax, 1986

| 7.0 | iote to - crop pata for riax, 1986 | | · · · · · · · · · · · · · · · · · · · | |
|-----|--|------------|---------------------------------------|--|
| | | Average of | 12 High | 12 Low |
| | | 24 Farms | Farms | Farms |
| It | ems | Per Acre | Per Acre | Per Acre |
| | | | | |
| 1 | Acres | 55.3 | 39.6 | 70.9 |
| 2 | Yield | 14.1 | 17.0 | 12.4 |
| 3 | Value per Bushel | 3.73 | 4.07 | 3.38 |
| 4 | Crop Product Return | \$ 52.41 | 69.37 | 41.95 |
| 5 | Other Crop Income | .83 | | and the second s |
| 6 | | | 1.67 | .35 |
| O | Total Crop Return | \$ 53.24 | 71.04 | 42.30 |
| ~7 | DIDECE COCES | | | e vista i Million |
| 7 | DIRECT COSTS | | | |
| 8 | Fertilizer | \$ 10.40 | 8.33 | 11.57 |
| 9 | Chemicals | 7.11 | 7 <i>:</i> 78 | 6.76 |
| 10 | Seed | 7.12 | 7.98 | 6.64 |
| 10A | ± ± 5 | .34 | | .54 |
| 10B | Other Expense | .90 | 1.09 | .80 |
| 11 | Special Hired Labor | .07 | .15 | .01 |
| 12 | Custom Work Hired | .16 | 23 m | .13 |
| 13 | Irrigation Operation | | Banka) - I eti | |
| 14 | Total Direct Costs | \$ 26.10 | 25.56 | 26.45 |
| 15 | Return Over Direct Costs | \$ 27.14 | 45.48 | 15.85 |
| | | ·•• | 20020 | |
| 16 | ALLOCATED COSTS (DIRECT & FIXED) | | a gysta i mar | 10 10 10 10 10 10 10 10 10 10 10 10 10 1 |
| 17 | Farm Power & Mach Ownership | \$ 12.63 | 12.62 | 12.65 |
| 18 | Farm Power & Mach Operation | 12.59 | 11.89 | 13.00 |
| 19 | Irrig. Equip. Ownership | | | 23.00 |
| 20 | Land Costs | 25.04 | 27.67 | 22.42 |
| 21 | Miscellaneous Costs | .02 | | .01 |
| *22 | | 2.84 | 2.56 | |
| | Interest on Mach. & Equip. Invst. | | | 3.01 |
| 23 | Total Allocated Costs | \$ 53.12 | 54.74 | 51.09 |
| 24 | Return Over All Listed Costs | \$(-25.98) | (-9.26) | (-35.24) |
| 25 | | | and the second | |
| 25 | SUPPLEMENTARY MANAGEMENT INFORMATION | | | or or twickly |
| 26 | Work Units Assigned per Acre | .30 | .30 | .30 |
| 27 | Power Costs Allocation Factor | 1.00 | 1.00 | 1.00 |
| 28 | Total Listed Cost per Unit of Prod. | 5.64 | 4.71 | 6.25 |
| 29 | Return Over Listed Costs per Unit | (-1.85) | (54) | (-2.84) |
| 30 | Breakeven Yield/Units of Prod. | 21.2 | 19.7 | 22.9 |
| 30A | Estimated Total Mach. Cost/Acre | 28.17 | 27.22 | 28.75 |
| 31 | Total Listed Costs per Acre | \$ 79.22 | 80.30 | 77.54 |
| | and the second s | | | |

^{*}Does not include interest on investment in irrigation equipment. Lines 13, 17, 18 & 22 were allocated to this crop by special formula.

Table 10 - Crop Data for Oats, 1986

| | Die 10 Clop Data 101 Cats, 1900 | Average of | 17 High | 17 Low |
|----------|--------------------------------------|-----------------------|--------------|----------|
| | | 84 Farms | | |
| T+. | ems | | Farms | Farms |
| <u> </u> | CILO | Per Acre | Per Acre | Per Acre |
| 1 | Acres | 39.4 | 43.8 | 33.5 |
| 2 | Yield | 50.3 | 43.6 69.4 | |
| | Value per Bushel | | | 25.3 |
| 4 | Crop Product Return | 1.23 | 1.32 | 1.04 |
| 5 | | \$ 61.85 | 91.58 | 26.27 |
| 6 | Other Crop Income | 17.69 | 36.62 | 3.16 |
| 0 | Total Crop Return | \$ 79.54 | 128.20 | 29.43 |
| 7 | DIRECT COSTS | | | |
| 8 | Fertilizer | \$ 11.14 | 12.37 | 7.28 |
| 9 | Chemicals | 2.13 | 4.38 | .18 |
| 10 | Seed | 6.62 | 5.91 | 9.67 |
| 10A | | 0.02 | V 4 / J | 2.07 |
| 10B | + 4 - | 1.29 | 2.40 | .78 |
| 11 | Special Hired Labor | .23 | .91 | .03 |
| 12 | Custom Work Hired | 3.38 | 2.63 | 6.72 |
| 13 | Irrigation Operation | J.J0 | 2.03 | 0.12 |
| 14 | Total Direct Costs | \$ 24.79 | 28.60 | 24.66 |
| 15 | Return Over Direct Costs | \$ 54.75 | 99.60 | 4.77 |
| T | Neturn Over Direct Costs | \$ 5 4. /5 | 99.00 | 4.// |
| 16 | ALLOCATED COSTS (DIRECT & FIXED) | | | |
| 17 | Farm Power & Mach Ownership | \$ 12.16 | 14.57 | 10.21 |
| 18 | Farm Power & Mach Operation | 16.57 | 17.21 | 18.43 |
| 19 | Irrig. Equip. Ownership | | | |
| 20 | Land Costs | 28.38 | 32.59 | 24.47 |
| 21 | Miscellaneous Costs | | | |
| *22 | Interest on Mach. & Equip. Invst. | 3.47 | 3.90 | 4.51 |
| 23 | Total Allocated Costs | \$ 60.58 | 68.27 | 57.62 |
| 24 | Return Over All Listed Costs | \$ (-5.83) | 31.33 | (-52.85) |
| - | | , , , | | (, |
| 25 | SUPPLEMENTARY MANAGEMENT INFORMATION | | | |
| 26 | Work Units Assigned per Acre | .30 | .30 | .30 |
| 27 | Power Costs Allocation Factor | 1.00 | 1.00 | 1.00 |
| 28 | Total Listed Cost per Unit of Prod. | 1.70 | 1.40 | 3.26 |
| 29 | Return Over Listed Costs per Unit | (12) | .45 | (-2.09) |
| 30 | Breakeven Yield/Units of Prod. | 69.4 | 73.4 | 79.1 |
| 30A | | 34.45 | 37.43 | 37.63 |
| 31 | Total Listed Costs per Acre | \$ 85.37 | 96.87 | 82.28 |
| J.L. | rocar maren coara her wore | η υ υ•υι | 70.07 | 02.20 |

^{*}Does not include interest on investment in irrigation equipment. Lines 13, 17, 18 & 22 were allocated to this crop by special formula.

Table 10 - Crop Data for Spring Wheat, 1986

| <u>'l'a</u> | <u> </u> | 36 | ** * * * * | | |
|-------------|---|-----------------|------------------------------|---|-----------------------|
| | | A | verage of | 99 High | 99 Low |
| | (A) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1 | | 93 Farms | Farms | Farms |
| Ite | ems a company of the | | er Acre | Per Acre | Per Acre |
| ********* | | · · · · · · · · | <u> </u> | 101, 11010 | TOT POLO |
| 1 | Acres | | 138.0 | 159.4 | 95.7 |
| 2 | Yield | | 34.1 | 43.1 | |
| | Value per Bushel | | | | 23.8 |
| | | | 2.40 | 2.49 | 2.29 |
| | Crop Product Return | \$ | 81.78 | 107.37 | 54.46 |
| | Other Crop Income | | 78.51 | 94.37 | 57.32 |
| 6 | Total Crop Return | \$ | 160.29 | 201.74 | 111.78 |
| | | | | | |
| 7 | DIRECT COSTS | | | | a andre Ar Talanta |
| 8 | Fertilizer | \$ | 21.44 | 21.12 | 22.43 |
| 9 | Chemicals | | 8.08 | 8.26 | 9.17 |
| 10 | Seed | | 8.28 | 7.91 | 9.27 |
| 10A | Crop Drying | | .59 | .25 | .77 |
| 10B | Other Expense | | 3.54 | 3.16 | 2.98 |
| 11 | Special Hired Labor | | .38 | .10 | 1.09 |
| 12 | Custom Work Hired | | 2.60 | 2.14 | 2.00 |
| 13 | Irrigation Operation | | 2000 | | 2.00 |
| 14 | Total Direct Costs | \$ | 44.91 | 42.94 | 47.71 |
| 15 | Return Over Direct Costs | \$ | 115.38 | 158.80 | 64.07 |
| ~ | roctail over price conce | ~ | TT0:00 | 100.00 | 04.07 |
| 16 | ALLOCATED COSTS (DIRECT & FIXED) | | * | 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | |
| 17 | Farm Power & Mach Ownership | \$ | 11.88 | 14.17 | 10.17 |
| 18 | Farm Power & Mach Operation | γ | 15.57 | 15.43 | 15.22 |
| 19 | | | .03 | .13 | 13 = <i>Lu Lu</i> |
| 20 | Irrig. Equip. Ownership | | | | 20.00 |
| | Land Costs | | 38.44 | 49.19 | 30.00 |
| 21 | Miscellaneous Costs | | .17 | .03 | .76 |
| *22 | Interest on Mach. & Equip. Invst. | _ | 3.41 | 4.13 | 2.91 |
| 23 | Total Allocated Costs | \$ | 69.50 | 83.08 | 59.06 |
| 24 | Return Over All Listed Costs | \$ | 45.88 | 75.72 | 5.01 |
| | • | | and the second of the second | | |
| 25 | SUPPLEMENTARY MANAGEMENT INFORMATION | | | | |
| 26 | Work Units Assigned per Acre | | .30 | .30 | .30 |
| 27 | Power Costs Allocation Factor | | 1.00 | 1.00 | 1.00 |
| 28 | Total Listed Cost per Unit of Prod. | | 3.36 | 2.92 | 4.49 |
| 29 | Return Over Listed Costs per Unit | | 1.35 | 1.76 | .21 |
| 30 | Breakeven Yield/Units of Prod. | | 47.7 | 50.6 | 46.6 |
| 30A | Estimated Total Mach. Cost/Acre | | 32.59 | 35.16 | 29.63 |
| 31 | Total Listed Costs per Acre | \$ | 114.41 | 126.02 | 106.77 |
| JI | TOTAL PIPER COSES DET WOLE | Υ | TT.40.XT | 120.02 | |

^{*}Does not include interest on investment in irrigation equipment. Lines 13, 17, 18 & 22 were allocated to this crop by special formula.

Table 10 - Crop Data for Winter Wheat, 1986

| <u>1d</u> | ble 10 - Crop Data for Winter Wheat, 19 | 700 | | O IIi ala | O Lova |
|-----------|---|-----|-----------|---------------------------------------|----------|
| | | | verage of | 9 High | 9 Low |
| Τ. | | | 8 Farms | Farms | Farms |
| <u>It</u> | ems | Pe | er Acre | Per Acre | Per Acre |
| 1 | 3 | | 20.4 | E0 2 | 20.4 |
| 1 | Acres | | 39.4 | 50.3 | 28.4 |
| | Yield | | 30.3 | 34.4 | 23.3 |
| | Value per Bushel | | 2.14 | 2.34 | 1.95 |
| 4 | Crop Product Return | \$ | 64.85 | 80.40 | 45.39 |
| 5 | Other Crop Income | | 84.87 | 119.40 | 24.05 |
| 6 | Total Crop Return | \$ | 149.72 | 199.80 | 69.44 |
| 7 | DIRECT COSTS | | | | |
| 8 | Fertilizer | \$ | 10.43 | 11.01 | 9.44 |
| 9 | Chemicals | | 1.88 | 1.59 | 2.36 |
| 10 | Seed | | 6.19 | 6.04 | 6.48 |
| 10A | Crop Drying | | .25 | .10 | .53 |
| -10B | # # # ~ | | 1.60 | 2.41 | .18 |
| 11 | Special Hired Labor | | | | |
| 12 | Custom Work Hired | | 2.87 | 3.24 | 2.22 |
| 13 | Irrigation Operation | | | | |
| 14 | Total Direct Costs | \$ | 23.22 | 24.39 | 21.21 |
| 15 | Return Over Direct Costs | \$ | 126.50 | 175.41 | 48.23 |
| | | · | | • | |
| 16 | ALLOCATED COSTS (DIRECT & FIXED) | | | | |
| 17 | Farm Power & Mach Ownership | \$ | 15.90 | 11.98 | 22.90 |
| - 18 | Farm Power & Mach Operation | | 17.78 | 15.33 | 22.17 |
| 19 | Irrig. Equip. Ownership | | | | |
| 20 | Land Costs | | 28.67 | 33.44 | 23.89 |
| 21 | Miscellaneous Costs | | .51 | | 1.37 |
| *22 | Interest on Mach. & Equip. Invst. | | 4.06 | 3.28 | 5.45 |
| 23 | Total Allocated Costs | \$ | 66.92 | 64.03 | 75.78 |
| 24 | Return Over All Listed Costs | \$ | 59.58 | 111.38 | (-27.55) |
| 25 | SUPPLEMENTARY MANAGEMENT INFORMATION | | | | |
| 26 | Work Units Assigned per Acre | | .30 | .30 | .30 |
| 27 | Power Costs Allocation Factor | | 1.00 | 1.00 | 1.00 |
| 28 | | | 2.97 | 2.57 | 4.17 |
| | Total Listed Cost per Unit of Prod. | | 1.97 | 3.24 | (-1.18) |
| 29 | Return Over Listed Costs per Unit | 19 | | · · · · · · · · · · · · · · · · · · · | |
| 30 | Breakeven Yield/Units of Prod. | | 42.1 | 37.8 | 49.7 |
| 30A | • | ~ | 39.65 | 32.75 | 52.00 |
| 31 | Total Listed Costs per Acre | \$ | 90.14 | 88.42 | 96.99 |

^{*}Does not include interest on investment in irrigation equipment. Lines 13, 17, 18 & 22 were allocated to this crop by special formula.

Table 10 - Crop Data for Beans, Pinto, 1986

| Ite | e (6) 1 | Average of 4 Farms |
|-------------|--------------------------------------|---------------------------------------|
| 1 | Acres | 120.0 |
| 2 | Yield | 11.7 |
| 3 | Value per CWT | |
| 4 | Crop Product Return | \$ 174.55 |
| 5 | Other Crop Income | 39.58 |
| 6 | Total Crop Return | \$ 214.13 |
| s- 7 | DIRECT COSTS | |
| 8 | Fertilizer | \$ 14.13 |
| 9 | Chemicals | 14.98 |
| 10 | | 22.93 |
| 10A | | 1.13 |
| 10B | | 13.91 |
| 11 | Special Hired Labor | .30 |
| 12 | Custom Work Hired | 47 141 45 - 5.27 |
| 13 | Irrigation Operation | |
| 14 | Total Direct Costs | \$ 72.65 |
| 15 | Return Over Direct Costs | \$ 141.48 |
| | | |
| 16 | ALLOCATED COSTS (DIRECT & FIXED) | |
| 17 | Farm Power & Mach Ownership | \$ 12.76 |
| 18 | Farm Power & Mach Operation | 26.80 |
| 19 | Irrig. Equip. Ownership | •• |
| 20 | Land Costs | 65.75 |
| 21 | Miscellaneous Costs | · · · · · · · · · · · · · · · · · · · |
| *22 | Interest on Mach. & Equip. Invst. | 5.08 |
| 23 | Total Allocated Costs | \$ 110.39 |
| 24 | Return Over All Listed Costs | \$ 31.09 |
| 25 | SUPPLEMENTARY MANAGEMENT INFORMATION | |
| 26 | Work Units Assigned per Acre | .50 |
| 27 | Power Costs Allocation Factor | 1.00 |
| 28 | Total Listed Cost per Unit of Prod. | 15.67 |
| 29 | Return Over Listed Costs per Unit | 2.66 |
| 30 | Breakeven Yield/Units of Prod. | 12.3 |
| 30A | Estimated Total Mach. Cost/Acre | 48.16 |
| 31 | Total Listed Costs per Acre | \$ 183.04 |

^{*}Does not include interest on investment in irrigation equipment. Lines 13, 17, 18 & 22 were allocated to this crop by special formula.

Table 10 - Crop Data for Corn for Grain, 1986

| T+ | ems | 2 | verage of 23 Farms Per Acre | 45 High Farms Per Acre | 45 Low Farms Per Acre |
|-----|--------------------------------------|----|-----------------------------------|------------------------------|-----------------------------|
| | | | CL FICIC | TOT FOTO | TCL ACLC |
| 1 | Acres | | 46.3 | 55.2 | 28.9 |
| 2 | Yield | | 83.5 | 103.3 | 55.2 |
| 3 | Value per Bushel | | 1.55 | 1.67 | 1.24 |
| 4 | Crop Product Return | \$ | 129.48 | 172.45 | 68.41 |
| 5 | Other Crop Income | | 64.95 | 89.96 | 23.46 |
| 6 | Total Crop Return | \$ | 194.43 | 262.41 | 91.87 |
| 7 | DIRECT COSTS | | | | |
| 8 | Fertilizer | \$ | 23.39 | 26.18 | 18.58 |
| 9 | Chemicals | | 8.77 | 7.48 | 9.69 |
| 10 | Seed | | 16.37 | 17.36 | 15.88 |
| 10A | Crop Drying | | 8.51 | 9.73 | 8.13 |
| 10B | Other Expense | | 1.68 | 2.21 | 2.01 |
| 11 | Special Hired Labor | | .26 | | .03 |
| 12 | Custom Work Hired | | 3.09 | 1.94 | 5.09 |
| 13 | Irrigation Operation | | .13 | .51 | |
| 14 | Total Direct Costs | \$ | 62.20 | 65.41 | 59.41 |
| 15 | Return Over Direct Costs | \$ | 132.23 | 197.00 | 32.46 |
| 16 | ALLOCATED COSTS (DIRECT & FIXED) | | | | |
| 17 | Farm Power & Mach Ownership | \$ | 20.48 | 18.48 | 21.11 |
| 18 | Farm Power & Mach Operation | | 26.14 | 26.19 | 25.27 |
| 19 | Irrig. Equip. Ownership | | | | |
| 20 | Land Costs | | 38.71 | 44.93 | 33.40 |
| 21 | Miscellaneous Costs | | .15 | .02 | .38 |
| *22 | Interest on Mach. & Equip. Invst. | | 6.92 | 8.26 | 6.23 |
| 23 | Total Allocated Costs | \$ | 92.40 | 97.88 | 86.39 |
| 24 | Return Over All Listed Costs | \$ | 39.83 | 99.12 | (-53.93) |
| 25 | SUPPLEMENTARY MANAGEMENT INFORMATION | | | | |
| 26 | Work Units Assigned per Acre | | .55 | .55 | . 55 |
| 27 | Power Costs Allocation Factor | | .99 | 1.00 | 1.00 |
| 28 | Total Listed Cost per Unit of Prod. | | 1.85 | 1.58 | 2.64 |
| 29 | Return Over Listed Costs per Unit | | .48 | .96 | (98) |
| 30 | Breakeven Yield/Units of Prod. | | 99.7 | 97.8 | 117.6 |
| 30A | Estimated Total Mach. Cost/Acre | | 55.60 | 54.22 | 56.01 |
| 31 | Total Listed Costs per Acre | \$ | 154.60 | 163.29 | 145.80 |
| | | | | | |

^{*}Does not include interest on investment in irrigation equipment. Lines 13, 17, 18 & 22 were allocated to this crop by special formula.

Table 10 - Crop Data for Potatoes, 1986

| | And the second of the second of the second | : 1 1 | | | | |
|---|--|--|---------------|---|-------|---|
| Ite | | | Aver | age of 6 | Farms | g mar in m The second se |
| 3 4 5 | Acres Yield Value per CWT Crop Product Return Other Crop Income | | \$ | 93.0 124.0 3.65 452.45 | N | |
| 6 | Total Crop Return | | \$ | 452.45 | | |
| 7 8 9 10 | DIRECT COSTS Fertilizer Chemicals Seed | | \$. | 26.67 24.32 31.84 | | iet Terrese |
| 10A 10B 11 12 13 | Crop Drying Other Expense Special Hired Labor Custom Work Hired Irrigation Operation Total Direct Costs | | \$ | 22.93 15.35 16.72 | | |
| 15 | Return Over Direct Costs | | \$ | 314.62 | | |
| 16 17 18 19 | ALLOCATED COSTS (DIRECT & 1 Farm Power & Mach Owner Farm Power & Mach Open Irrig. Equip. Ownership | ership | \$. | 68.08 93.53 | | |
| 20 21 *22 23 24 | Land Costs Miscellaneous Costs Interest on Mach. & Equip Total Allocated Cost Return Over All Listed Cost | cs | \$ \$ | 45.18 1.13 23.19 231.11 83.51 | | |
| 25 26 27 28 29 30 30A 31 | SUPPLEMENTARY MANAGEMENT IN Work Units Assigned per A Power Costs Allocation Fa Total Listed Cost per Unit Return Over Listed Costs Breakeven Yield/Units of Estimated Total Mach. Cost Total Listed Costs | Acre actor it of Prod. per Unit Prod. st/Acre | \$10.0 Market | 3.00 .89 2.98 .67 101.1 184.80 368.94 | | |

^{*}Does not include interest on investment in irrigation equipment. Lines 13, 17, 18 & 22 were allocated to this crop by special formula.

Table 10 - Crop Data for Soybeans, 1986

| <u>Tal</u> | ole 10 - Crop Data for Soybeans, 1986 | | <u>-</u> | | |
|---------------|---------------------------------------|---------|---------------------------------------|--|----------|
| | | | verage of | 36 High | 36 Low |
| | | 1 | 80 Farms | Farms | Farms |
| It ϵ | ems | P | er Acre | Per Acre | Per Acre |
| | | | | | |
| 1 | Acres | | 71.1 | 77.1 | 65.5 |
| 2 | Yield | | 34.4 | 41.0 | 23.4 |
| 3 | Value per Bushels | | 4.40 | 4.57 | 4.28 |
| 4 | Crop Product Return | \$ | 151.36 | 187.42 | 99.97 |
| 5 | Other Crop Income | | 3.98 | 16.59 | 1.04 |
| 6 | Total Crop Return | \$ | 155.34 | 204.01 | 101.01 |
| Ť | 30001 010p 1000 | · | | | |
| 7 | DIRECT COSTS | | | | |
| 8 | Fertilizer | \$ | 6.23 | 1.41 | 12.85 |
| 9 | Chemicals | | 16.91 | 14.19 | 16.37 |
| 10 | Seed | | 10.41 | 9.39 | 12.00 |
| 10A | | | .38 | .51 | .47 |
| 10B | Other Expense | | 3.87 | 2.11 | 4.32 |
| 11 | Special Hired Labor | | .35 | .03 | 1.01 |
| 12 | Custom Work Hired | | 2.49 | 1.40 | 3.15 |
| 13 | Irrigation Operation | | | | |
| 13 14 | Total Direct Costs | \$ | 40.64 | 29.04 | 50.17 |
| 15 | Return Over Direct Costs | \$ | 114.70 | 174.97 | 50.84 |
| 13 | Return Over Direct Costs | ٧ | 11111111 | | 0000 |
| 16 | ALLOCATED COSTS (DIRECT & FIXED) | | | | |
| 17 | Farm Power & Mach Ownership | \$ | 14.90 | 15.82 | 18.41 |
| 18 | Farm Power & Mach Operation | - T | 18.52 | 16.41 | 22.26 |
| 19 | Irrig. Equip. Ownership | | 2,000 | | |
| 20 | Land Costs | | 48.22 | 56.42 | 39.44 |
| 21 | Miscellaneous Costs | | .21 | .01 | .37 |
| *22 | Interest on Mach. & Equip. Invst. | | 4.99 | 5.91 | 5.02 |
| 23 | Total Allocated Costs | \$ | 86.84 | 94.57 | 85.50 |
| 23 24 | Return Over All Listed Costs | ۶ \$ | 27.86 | 80.40 | (-34.66) |
| 24 | Return Over All Listed Costs | Ą | 27.00 | 00.40 | (-54:00) |
| 25 | SUPPLEMENTARY MANAGEMENT INFORMATION | | | | |
| 26 | Work Units Assigned per Acre | | .45 | .45 | .45 |
| 27 | Power Costs Allocation Factor | | .97 | .92 | 1.01 |
| 28 | Total Listed Cost per Unit of Prod. | | 3.71 | 3.01 | 5.81 |
| | | . 334 1 | .81 | 1.96 | (-1.48) |
| 29 | Return Over Listed Costs per Unit | 15 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 27.1 | 31.7 |
| 30 | Breakeven Yield/Units of Prod. | | 29.0 | and the second s | |
| 30A | | | 40.07 | 39.07 | 47.79 |
| 31 | Total Listed Costs per Acre | \$ | 127.48 | 123.61 | 135.67 |
| | | | | | |

^{*}Does not include interest on investment in irrigation equipment. Lines 13, 17, 18 & 22 were allocated to this crop by special formula.

Table 10 - Crop Data for Sugar Beets, 1986

| Tai | ole 10 - Crop Data for Sugar Beets, 190 | U. | eta <u>ta ta ta a</u> | | | |
|-----|--|-------|-----------------------|---------------------|---|--|
| - | | A | verage of | 13 High | 13 Low | |
| | 4.0 | | 6 Farms | Farms | Farms | |
| Ite | ems | | er Acre | Per Acre | Per Acre | |
| | 76 b b b b b b b b b b b b b b b b b b b | | <u> </u> | | | |
| 1 | Acres | | 140.8 | 107.4 | 108.1 | |
| 2 | Yield | | 43.6 | 52.7 | 31.4 | |
| | | | 13.55 | 14.86 | 12.68 | |
| | Value per CWT | Ċ. | | 782.71 | 398.58 | |
| 4 | Crop Product Return | \$ | 590.60 | | | |
| 5 | Other Crop Income | _ | 11.70 | 9.41 | 11.26 | |
| 6 | Total Crop Return | \$ | 602.30 | 792.12 | 409.84 | |
| 7 | DIRECT COSTS | | | 11.74 | The second | |
| 8 | Fertilizer | \$ | 20.58 | 21.63 | 21.60 | |
| 9 | Chemicals | Ψ | 46.24 | 37.60 | 38.46 | |
| 10 | No. of the control of | | 24.77 | 22.23 | 22.49 | |
| | Seed | | .01 | 22.2 | .04 | |
| 10A | Crop Drying | | | 2 73 | 9.89 | |
| 10B | Other Expense | | 8.99 | 6.73 | | |
| 11 | Special Hired Labor | | 32.34 | 31.90 | 36.60 | |
| 12 | Custom Work Hired | | 28.10 | 16.70 | 20.38 | |
| 13 | Irrigation Operation | | | | | |
| 14 | Total Direct Costs | \$ | 161.03 | 136.79 | 149.46 | |
| 15 | Return Over Direct Costs | \$ | 441.27 | 655.33 | 260.38 | |
| 16 | ALLOCATED COSTS (DIRECT & FIXED) | | MARK A ELS | | A DESCRIPTION OF THE PROPERTY | |
| 17 | Farm Power & Mach Ownership | \$ | 42.67 | 64.84 | 27.93 | |
| 18 | Farm Power & Mach Operation | 7 | 73.77 | 77.43 | 66.72 | |
| 19 | Irriq. Equip. Ownership | | , , , , , | | | |
| | | | 90.56 | 102.92 | 80.62 | |
| 20 | Land Costs | | 90.50 | 102.672 | 00.02 | |
| 21 | Miscellaneous Costs | | 15.73 | 19.68 | 12.03 | |
| *22 | Interest on Mach. & Equip. Invst. | ~ | | 264.87 | 187.30 | |
| 23 | Total Allocated Costs | \$ | 222.73 | | | |
| 24 | Return Over All Listed Costs | \$ | 218.54 | 390.46 | 73.08 | |
| 25 | SUPPLEMENTARY MANAGEMENT INFORMATION | . 4.1 | ermy vari | of a Best Committee | | |
| 26 | Work Units Assigned per Acre | | 2.00 | 2.00 | 2.00 | |
| 27 | Power Costs Allocation Factor | | .84 | .84 | .88 | |
| 28 | Total Listed Cost per Unit of Prod. | | 8.80 | 7.63 | 10.71 | |
| | | | 5.01 | 7.41 | 2.33 | |
| 29 | Return Over Listed Costs per Unit | | 28.3 | 27.0 | 26.6 | |
| 30 | Breakeven Yield/Units of Prod. | | | 173.09 | 120.27 | |
| 30A | | ~ | 150.91 | | | |
| 31 | Total Listed Costs per Acre | \$ | 383.76 | 401.66 | 336.76 | |
| | | | | | | |

^{*}Does not include interest on investment in irrigation equipment. Lines 13, 17, 18 & 22 were allocated to this crop by special formula.

Table 10 - Crop Data for Sunflowers, 1986

| | | A | verage of | 14 High | 14 Low |
|-----|--------------------------------------|----------|-----------|----------|----------|
| | | 47 Farms | | Farms | Farms |
| Ite | Items | | er Acre | Per Acre | Per Acre |
| | | | | | |
| 1 | Acres | | 94.5 | 101.3 | 90.3 |
| 2 | Yield | | 13.9 | 19.1 | 9.6 |
| 3 | Value per CWT | | 7.01 | 12.63 | 5.82 |
| 4 | Crop Product Return | \$ | 97.44 | 241.19 | 56.14 |
| 5 | Other Crop Income | | 3.05 | | 8.15 |
| 6 | Total Crop Return | \$ | 100.49 | 241.19 | 64.29 |
| 7 | DIRECT COSTS | | | | |
| 8 | Fertilizer | \$ | 18.79 | 16.74 | 19.40 |
| 9 | Chemicals | | 9.94 | 10.28 | 9.19 |
| 10 | Seed | | 12.68 | 14.14 | 11.48 |
| 10A | Crop Drying | | 2.17 | 1.89 | 2.66 |
| 10B | | | 3.19 | 2.67 | 3.73 |
| 11 | Special Hired Labor | | .47 | .32 | .09 |
| 12 | Custom Work Hired | | 2.79 | 2.24 | 5.23 |
| 13 | Irrigation Operation | | | | |
| 14 | Total Direct Costs | \$ | 50.03 | 48.28 | 51.78 |
| 15 | Return Over Direct Costs | \$ | 50.46 | 192.91 | 12.51 |
| 16 | ALLOCATED COSTS (DIRECT & FIXED) | | | | |
| 17 | Farm Power & Mach Ownership | \$ | 17.24 | 19.34 | 15.09 |
| 18 | Farm Power & Mach Operation | | 19.07 | 21.04 | 18.25 |
| 19 | Irrig. Equip. Ownership | | | | |
| 20 | Land Costs | | 35.97 | 51.03 | 21.75 |
| 21 | Miscellaneous Costs | | .32 | | .90 |
| *22 | Interest on Mach. & Equip. Invst. | | 5.29 | 6.07 | 4.93 |
| 23 | Total Allocated Costs | \$ | 77.89 | 97.48 | 60.92 |
| 24 | Return Over All Listed Costs | | (-27.43) | 95.43 | (-48.41) |
| 25 | SUPPLEMENTARY MANAGEMENT INFORMATION | | | | |
| 26 | Work Units Assigned per Acre | | .40 | .40 | .40 |
| 27 | Power Costs Allocation Factor | | 1.00 | 1.00 | .98 |
| 28 | Total Listed Cost per Unit of Prod. | - | 9.20 | 7.63 | 11.68 |
| 29 | Return Over Listed Costs per Unit | | (-1.97) | 5.00 | (-5.02) |
| 30 | Breakeven Yield/Units of Prod. | | 18.2 | 11.5 | 19.4 |
| 30A | | | 41.60 | 46.45 | 41.76 |
| 31 | Total Listed Costs per Acre | \$ | 127.92 | 145.76 | 112.70 |
| | | • | | | |

^{*}Does not include interest on investment in irrigation equipment. Lines 13, 17, 18 & 22 were allocated to this crop by special formula.

Table 10 - Crop Data for Legume Hay, 1986

| 10 | DIE IV - CLOP Data for Leguile hay, 1900 | · · · · · · · · · · · · · · · · · · · | | | 1 |
|-----|--|---------------------------------------|-----------|---------------------------------------|---|
| | | A۱ | verage of | 21 High | 21 Low |
| | | 10 | 05 Farms | Farms | Farms |
| It | ems/1 | Pe | er Acre | Per Acre | Per Acre |
| | | **** | | | |
| 1 | Acres | | 93.6 | 50.6 | 141.8 |
| 2 | Yield | | 2.3 | 5.1 | 1.1 |
| 3 | Value per Ton | | 32.60 | 40.88 | 22.84 |
| 4 | Crop Product Return | \$ | 73.49 | 206.82 | 24.16 |
| 5 | Other Crop Income | * | 1.27 | 4.33 | .04 |
| 6 | Total Crop Return | \$ | 74.76 | · · · · · · · · · · · · · · · · · · · | 24.20 |
| • | rotar crop recurr | Ą | /4:/0 | 211.15 | 24.20 |
| 7 | DIRECT COSTS | | | 94,0g 15 | a was a second |
| 8 | | ٠, | 4 22 | | |
| 9 | Chemicals | \$ | 4.23 | 4.15 | 1.11 |
| 10 | | | .07 | .20 | inger Server og state i det at d |
| | Seed | | 1.53 | 2.57 | .53 |
| 10A | ··-#1 | | .06 | .02 | |
| 10B | | | .64 | 1.09 | .21 |
| 11 | Special Hired Labor | | .12 | .75 | |
| 12 | Custom Work Hired | | .91 | 4.13 | .42 |
| 13 | Irrigation Operation | | | | • |
| 14 | Total Direct Costs | \$ | 7.56 | 12.91 | 2.27 |
| 15 | Return Over Direct Costs | \$ | 67.20 | 198.24 | 21.93 |
| | | | | | |
| 16 | ALLOCATED COSTS (DIRECT & FIXED) | | | | en e |
| 17 | Farm Power & Mach Ownership | \$ | 13.28 | 14.49 | 11.39 |
| 18 | Farm Power & Mach Operation | | 20.38 | 21.20 | 15.38 |
| 19 | Irrig. Equip. Ownership | | | | |
| 20 | Land Costs | | 25.26 | 36.52 | 18.10 |
| 21 | Miscellaneous Costs | | .02 | .02 | |
| *22 | Interest on Mach. & Equip. Invst. | | 3.26 | 3.69 | 2.43 |
| 23 | Total Allocated Costs | \$ | 62.20 | 75.92 | 47.30 |
| 24 | Return Over All Listed Costs | \$ | 5.00 | 122.32 | (-25.37) |
| | | • | • | | ,, |
| 25 | SUPPLEMENTARY MANAGEMENT INFORMATION | | * * | | |
| 26 | Work Units Assigned per Acre | | .40 | .40 | .40 |
| 27 | Power Costs Allocation Factor | | .96 | .98 | .88 |
| 28. | Total Listed Cost per Unit of Prod. | | 30.94 | 17.56 | 46.87 |
| 29 | Return Over Listed Costs per Unit | | 2.22 | 24.18 | (-24.00) |
| 30 | Breakeven Yield/Units of Prod. | | 2.1 | 2.2 | 2.2 |
| 30A | | | 37.53 | 42.13 | |
| | Estimated Total Mach. Cost/Acre | ċ | | | 29.48 |
| 31 | Total Listed Costs per Acre | \$ | 69.76 | 88.83 | 49.57 |

^{*}Does not include interest on investment in irrigation equipment. Lines 13, 17, 18 & 22 were allocated to this crop by special formula.

Table 10 - Crop Data for Corn Silage, 1986

| | bie 10 clop bata 101 com bitage, 1900 | A | verage of | 21 High | 21 Low |
|-----------|---|----|-----------|----------|----------|
| | | 1 | .05 Farms | Farms | Farms |
| Ite | ems | P | er Acre | Per Acre | Per Acre |
| 1 | A crea c | | 20. 2 | 20.2 | 24.0 |
| 2 | Acres | | 30.3 | 30.2 | 24.8 |
| | Yield | | 10.9 | 17.1 | 6.0 |
| 3 | Value per Ton | _ | 13.78 | 14.62 | 11.76 |
| 4 | Crop Product Return | \$ | 150.53 | 249.80 | 71.13 |
| 5 | Other Crop Income | _ | 34.69 | 32.42 | 11.05 |
| 6 | Total Crop Return | \$ | 185.22 | 282,22 | 82.18 |
| 7 | DIRECT COSTS | | | | |
| 8 | Fertilizer | \$ | 15.78 | 12.62 | 19.07 |
| 9 | Chemicals | | 4.36 | 6.19 | 3.23 |
| 10 | Seed | | 12.44 | 11.72 | 13.23 |
| 10A | Crop Drying | | .07 | .26 | |
| 10B | Other Expense | | .63 | .99 | .52 |
| 11 | Special Hired Labor | | .07 | • | |
| 12 | Custom Work Hired | | 1.62 | 1.03 | 3.10 |
| 13 | Irrigation Operation | | .40 | | |
| 14 | Total Direct Costs | \$ | 35.37 | 32.81 | 39.15 |
| 15 | Return Over Direct Costs | \$ | 149.85 | 249.41 | 43.03 |
| 16 | ALLOCATED COSTS (DIRECT & FIXED) | | | | |
| 17 | Farm Power & Mach Ownership | \$ | 25.89 | 38.23 | 22.93 |
| 18 | Farm Power & Mach Operation | • | 35.66 | 38.48 | 32.34 |
| 19 | Irrig. Equip. Ownership | | | | |
| 20 | Land Costs | | 31.49 | 37.48 | 23.76 |
| 21 | Miscellaneous Costs | | .07 | .17 | .04 |
| *22 | Interest on Mach. & Equip. Invst. | | 6.57 | 9.15 | 6.10 |
| 23 | Total Allocated Costs | \$ | 99.68 | 123.51 | 85.17 |
| 24 | Return Over All Listed Costs | \$ | 50.17 | 125.90 | (-42.14) |
| 25 | CLIDDE ENGENTER DV. NARNIN CENTRATIO TRICOGRAZITATORI | | | | |
| 25 26 | SUPPLEMENTARY MANAGEMENT INFORMATION | | | | : |
| 20 27 | Work Units Assigned per Acre Power Costs Allocation Factor | | .60 | .60 | .60 |
| 28 | | | 1.00 | 1.00 | 1.00 |
| 20 29 | Total Listed Cost per Unit of Prod. | | 12.36 | 9.15 | 20.55 |
| 30 | Return Over Listed Costs per Unit | | 4.60 | 7.37 | (-6.97) |
| | Breakeven Yield/Units of Prod. | | 9.8 | 10.7 | 10.6 |
| 30A 31 | Estimated Total Mach. Cost/Acre | ٠, | 69.20 | 86.55 | 63.44 |
| 3T | Total Listed Costs per Acre | \$ | 135.05 | 156.32 | 124.32 |

^{*}Does not include interest on investment in irrigation equipment. Lines 13, 17, 18 & 22 were allocated to this crop by special formula.

Table 10 - Crop Data for Medium Red Clover Seed, 1986

| <u>It</u> | ems | Average of 6 Farms | |
|---|---|---|--|
| 1 2 3 4 5 | Acres Yield Value per Pound Crop Product Return Other Crop Income Total Crop Return | 53.6 308.1 .63 \$ 194.10 6.53 \$ 200.63 | |
| 7 8 9 10 10A 10B 11 12 13 14 15 | DIRECT COSTS Fertilizer Chemicals Seed Crop Drying Other Expense Special Hired Labor Custom Work Hired Irrigation Operation Total Direct Costs Return Over Direct Costs | \$.63 3.49 .41 3.79 \$ 8.32 \$ 192.31 | |
| 16 17 18 19 20 21 *22 23 24 | ALLOCATED COSTS (DIRECT & FIXED) Farm Power & Mach Ownership Farm Power & Mach Operation Irrig. Equip. Ownership Land Costs Miscellaneous Costs Interest on Mach. & Equip. Invst. Total Allocated Costs Return Over All Listed Costs | \$ 11.97 20.13 21.83 4.10 \$ 58.03 \$ 134.28 | |
| 25 26 27 28 29 30 30A 31 | SUPPLEMENTARY MANAGEMENT INFORMATION Work Units Assigned per Acre Power Costs Allocation Factor Total Listed Cost per Unit of Prod Return Over Listed Costs per Unit Breakeven Yield/Units of Prod. Estimated Total Mach. Cost/Acre Total Listed Costs per Acre | .50 .83 | |

^{*}Does not include interest on investment in irrigation equipment. Lines 13, 17, 18 & 22 were allocated to this crop by special formula.

Table 10 - Crop Data for Bluegrass Seed, 1986

| <u>It</u> | ems | Average of 4 Farms |
|-----------|--------------------------------------|--------------------|
| 1 | Acres | 127.0 |
| 2 | Yield | 137.8 319.2 |
| 3 | Value per Pound | 1.08 |
| 4 | Crop Product Return | \$ 344.75 |
| 5 | Other Crop Income | .99 |
| 6 | Total Crop Return | \$ 345.74 |
| 7 | DIRECT COSTS | |
| 8 | Fertilizer | \$ 28.92 |
| 9 | Chemicals | 7.11 |
| 10 | Seed | .71 |
| 10A | | * ' Ame |
| 10B | | .83 |
| 11 | Special Hired Labor | |
| 12 | Custom Work Hired | 3.32 |
| 13 | Irrigation Operation | |
| 14 | Total Direct Costs | \$ 40.89 |
| 15 | Return Over Direct Costs | \$ 304.85 |
| 16 | ALLOCATED COSTS (DIRECT & FIXED) | |
| 17 | Farm Power & Mach Ownership | \$ 11.00 |
| 18 | Farm Power & Mach Operation | 10.99 |
| 19 | Irrig. Equip. Ownership | |
| 20 | Land Costs | 24.25 |
| 21 | Miscellaneous Costs | |
| *22 | Interest on Mach. & Equip. Invst. | 2.45 |
| 23 | Total Allocated Costs | \$ 48.69 |
| 24 | Return Over All Listed Costs | \$ 256.16 |
| 25 | SUPPLEMENTARY MANAGEMENT INFORMATION | |
| 26 | Work Units Assigned per Acre | .40 |
| 27 | Power Costs Allocation Factor | .60 |
| 28 | Total Listed Cost per Unit of Prod. | .28 |
| 29 | Return Over Listed Costs per Unit | .80 |
| 30 | Breakeven Yield/Units of Prod. | 83.0 |
| 30A | Estimated Total Mach. Cost/Acre | 26.65 |
| 31 | Total Listed Costs per Acre | \$ 89.58 |

^{*}Does not include interest on investment in irrigation equipment. Lines 13, 17, 18 & 22 were allocated to this crop by special formula.

Table 10 - Crop Data for Timothy Seed, 1986

| 10 | tore to - crop para for Thiothy seed, 190 | ****** | | | |
|-----|---|--------|-----------|--|--|
| | | | verage of | | 6 Low |
| | | l | 3 Farms | Farms | Farms |
| Ite | ems | P | er Acre | Per Acre | Per Acre |
| - | | | | | |
| 1 | Acres | | 75.4 | 90.0 | 61.7 |
| 2 | Yield | | 300.4 | 336.2 | 240.1 |
| 3 | Value per Pound | | .35 | .38 | .31 |
| 4 | Crop Product Return | \$ | 105.13 | 127.77 | 74.44 |
| 5 | Other Crop Income | , | 2.12 | 1.24 | 2.98 |
| 6 | Total Crop Return | \$ | 107.25 | 129.01 | 77.42 |
| Ū | to come of the domain | т | | | , |
| 7 | DIRECT COSTS | | | | |
| 8 | Fertilizer | \$ | 20.81 | 22.70 | 18.80 |
| 9 | Chemicals | Y | 1.74 | 1.52 | 2.37 |
| 10 | | | .13 | .24 | 2.31 |
| | Seed | | °T3 | • 44 | $\frac{d}{dt} = \frac{dt}{dt} = \frac{dt}$ |
| 10A | Crop Drying | | 3 20 | .62 | 2 54 |
| 10B | Other Expense | | 1.30 | .02 | 2.54 |
| 11 | Special Hired Labor | | 7 07 | | |
| 12 | Custom Work Hired | | 1.01 | .77 | .99 |
| 13 | Irrigation Operation | | | | |
| 14 | Total Direct Costs | \$ | 24.99 | 25.85 | 24.70 |
| 15 | Return Over Direct Costs | \$ | 82.26 | 103.16 | 52.72 |
| | | | era e e | en e | |
| 16 | ALLOCATED COSTS (DIRECT & FIXED) | -, - | | | |
| 17 | Farm Power & Mach Ownership | \$ | 9.91 | 11.61 | 7.67 |
| 18 | Farm Power & Mach Operation | | 9.14 | 9.63 | 7.85 |
| 19 | Irrig. Equip. Ownership | | | W. | |
| 20 | Land Costs | | 25.31 | 28.33 | 22.33 |
| 21 | Miscellaneous Costs | | | | |
| *22 | Interest on Mach. & Equip. Invst. | | 1.91 | 1.93 | 1.79 |
| 23 | Total Allocated Costs | \$ | 46.27 | 51.50 | 39.64 |
| 24 | Return Over All Listed Costs | \$ | 35.99 | 51.66 | 13.08 |
| 21 | | • | | | |
| 25 | SUPPLEMENTARY MANAGEMENT INFORMATION | | | | • |
| 26 | Work Units Assigned per Acre | | .30 | .30 | .30 |
| 27 | Power Costs Allocation Factor | | .68 | .68 | .68 |
| | | | .24 | .23 | .27 |
| 28 | Total Listed Cost per Unit of Prod. | | .12 | .15 | .05 |
| 29 | Return Over Listed Costs per Unit | | 203.6 | 203.6 | 207.6 |
| 30 | Breakeven Yield/Units of Prod. | | | 23.68 | 17.97 |
| 30A | · · · · · · · · · · · · · · · · · · · | ÷ | 21.63 | | 64.34 |
| 31 | Total Listed Costs per Acre | \$ | 71.26 | 77.35 | 04.34 |
| | | | | | |

^{*}Does not include interest on investment in irrigation equipment. Lines 13, 17, 18 & 22 were allocated to this crop by special formula.

Table 10 - Crop Data for Summer Fallow, 1986

| <u> 1a</u> | bie 10 - Crop Data for Suitter raffow, | | erage of | 58 High | 58 Low |
|------------|--|-----|-------------|----------|-------------|
| | | | 2 Farms | Farms | Farms |
| Ite | ems | Pe | r Acre | Per Acre | Per Acre |
| 1 | Acres | | 121.6 | 98.1 | 136.9 |
| 2 | Yield | | 1210 | 20.1 | 130.7 |
| 3 | Value per | | | | |
| 4 | Crop Product Return | | | | |
| 5 | Other Crop Income | | | | |
| 6 | Total Crop Return | | | | |
| J | | | | | |
| 7 | DIRECT COSTS | | | | |
| 8 | Fertilizer | \$ | .27 | .70 | .70 |
| 9 | Chemicals | | . 53 | .07 | 2.13 |
| 10 | Seed | | .60 | .32 | 1.37 |
| 10A | Crop Drying | | | | |
| 10B | Other Expense | | .08 | | .13 |
| 11 | Special Hired Labor | | .16 | .18 | . 56 |
| 12 | Custom Work Hired | | .30 | | 1.04 |
| 13 | Irrigation Operation | | | | |
| 14 | Total Direct Costs | \$ | 1.94 | 1.27 | 5.93 |
| 15 | Return Over Direct Costs | | | | |
| 16 | ALLOCATED COSTS (DIRECT & FIXED) | | | | |
| 17 | Farm Power & Mach Ownership | \$ | 11.59 | 12.02 | 11.83 |
| 18 | Farm Power & Mach Operation | | 15.50 | 15.82 | 15.24 |
| 19 | Irrig. Equip. Ownership | | | • • | |
| 20 | Land Costs | | 32.68 | 36.59 | 34.97 |
| 21 | Miscellaneous Costs | | .01 | .05 | .01 |
| *22 | Interest on Mach. & Equip. Invst. | | 3.35 | 3.84 | 3.20 |
| 23 | Total Allocated Costs | \$ | 63.13 | 68.32 | 65.25 |
| 24 | Return Over All Listed Costs | | | | |
| 25 | SUPPLEMENTARY MANAGEMENT INFORMATION | | | | |
| 26 | Work Units Assigned per Acre | · . | .30 | .30 | .30 |
| 27 | Power Costs Allocation Factor | 4 | .99 | .96 | .99 |
| 28 | Total Listed Cost per Unit of Prod. | | | | |
| 29 | Return Over Listed Costs per Unit | | | | |
| 30 | Breakeven Yield/Units of Prod. | | | | |
| 30A | Estimated Total Mach. Cost/Acre | | 30.64 | 31.68 | 30.96 |
| 31 | Total Listed Costs per Acre | \$ | 65.07 | 69.59 | 71.18 |
| | | | | | |

^{*}Does not include interest on investment in irrigation equipment. Lines 13, 17, 18 & 22 were allocated to this crop by special formula.

COSTS AND RETURNS FROM LIVESTOCK ENTERPRISES

Productive livestock enterprises are an important part of the farm business in all but a few of the farms involved in this report. Tables 11 through 17A pertain to the major livestock enterprises.

Since feed is the largest single item of cost for all classes of livestock, return above feed costs has been used to classify farms into high and low average groups.

<u>Direct Costs</u> are those costs which have been identified as cash costs attributable to the enterprise and recorded as such in the record.

Allocated Costs are calculated costs and are derived by first allocating the total cost for each category between the crops and livestock; then further allocating the livestock portion to each livestock enterprise on a work unit basis.

In calculating the total return for the enterprise, the inventory change, purchase and sale of livestock, value of animals butchered, products sold, and products used in the home are considered in order to arrive at the total income or net increase for the enterprise. The net increase is divided by the net quantity produced or number of head to arrive at a per unit figure comparison.

Feed costs are determined from feed records kept by the farm operator. Purchase price is used for all feeds purchased from off the farm. An average price is charged for each kind of farm grown feed.

The pasture charge allocation is determined by using a land charge. Actual acres for each class of livestock, with their respective land values are used.

The items listed as <u>Supplementary Management Information</u> provide further clues to the reasons for good, bad, or average livestock returns.

All livestock costs and returns are computed on an annual basis. Thus, with feeder enterprises, inventories of feed animals are involved. In such cases, the amount indicated as "Price Per CWT Bought" is the cost of those animals on hand at the end of the year; likewise, the amount given as "Price Per CWT Sold" is the price received for animals sold during the twelve month period, most of which were animals on hand at the beginning of the year.

Table 11A - 6470 Hogs, Farrow to Finish, 1986

| Ιtε | ems | Avera | age of 6 | Farms |
|-----|---------------------------------------|-------|----------|-------|
| 1 | Pounds of Hogs Produced | | 79176 | |
| | 3 | | PER CWT | |
| 2 | Net Value Produced | \$ | 58.15 | |
| 3 | Other Miscellaneous Hog Income | 7 | | |
| 4 | Total Value Produced | \$ | 58.15 | |
| 5 | POUNDS OF FEED FED | • | | |
| 6 | Corn | | 140.6 | |
| 7 | Small Grain | | 145.2 | |
| 8 | Complete Ration | | 227.7 | |
| 9 | Protein, Salt & Mineral & Milk | | 49.5 | |
| 10 | Total Concentrates | | 563.0 | |
| 11 | Forages | | | |
| 12 | FEED COSTS | | | |
| 13 | Grains | | 9.01 | |
| 14 | Complete Ration | | 10.50 | |
| 15 | Protein, Salt & Mineral & Milk | | .92 | |
| 16 | Forages | | | |
| 17 | Pasture | | | |
| 18 | Total Feed Costs | \$ | 20.43 | |
| 19 | Return Over Feed Costs | \$ | 37.72 | |
| | <u></u> | | | |
| 20 | OTHER DIRECTR COSTS | | | |
| 21 | Miscellaneous Livestock Expense | | 1.00 | |
| 22 | Veterinary Expense | | .66 | |
| 23 | Custom Hauling, Grinding, Mktg., Etc. | | .53 | |
| 24 | Special Hired Labor | | | |
| 25 | Total Other Direct Costs | \$ | 2.19 | |
| 26 | Return Over Feed & Other Direct Costs | \$ | 35.53 | |
| 27 | ALLOCATED COSTS | | | |
| 28 | Power & Machinery Costs (PCAF 1.00) | | 1.51 | |
| 29 | Livestock Equipment Costs (ECAF 1) | | .60 | |
| 30 | Building & Fences (BCAF 1) | | .43 | |
| 31 | Total Allocated Costs | \$ | 2.54 | |
| 32 | Return Over All Listed Costs | \$ | 32.99 | |
| - | | Υ | J2 . J . | |
| 33 | SUPPLEMENTARY MANAGEMENT INFORMATION | | | 1 |
| 34 | Return for \$100 Feed Fed | | 284.63 | |
| 35 | Price Rec. per CWT All Animals | | 52.99 | |
| 36 | Price Rec. per CWT Sold Mkt. Only | | 49.80 | |
| 37 | Number of Litters Farrowed | | 61 | |
| 37A | Litters/Bearing Female/Year | | 1.5 | |
| 38 | Number of Pigs Born per Litter | | 8.9 | |
| 39 | Number of Pigs Weaned per Litter | | 6.6 | |
| 39A | Number of Pigs Produced/Litter | | 6.5 | |
| 40 | Percent Death Loss | | 17.1 | |
| 41 | Average Weight of All Hogs Sold | | 202.6 | |
| 42 | Average Weight of Mkt. Hogs Sold | | 216.9 | |
| 43 | Price per CWT Concentrate Fed | | 3.63 | |
| 44 | Price per CWT Protein, Salt & Mineral | | 1.86 | |
| 45 | Pounds of Pork Purchased | | 863 | |
| 46 | Total Listed Costs per CWT Pork Prod. | \$ | 25.16 | |

Table 11B - 6490 Hogs, Finishing, 1986

| 100 | ····································· | Average of 6 | Farma |
|----------|---|----------------|------------------|
| It | ems · | Average of 0 | rains |
| 1 | Average Number of Pigs on Hand | 252.8 | |
| 2 | Pounds of Hogs Produced | 119336 | |
| | $ \Phi_{ij}(T) = -\frac{1}{2} \Phi_{ij}(T) + \frac{1}{2} \Phi_{ij}(T) + \frac{1}{$ | PER CWT | 10 By |
| 3 | Net Value Produced | \$ 42.54 | |
| 4 | Other Miscellaneous Hog Income | | |
| 5 | Total Value Produced | \$ 42.54 | |
| 6 | POUNDS OF FEED FED | | |
| 7 | Corn | 254.9 | • |
| 8 | Small Grain | 64.3 | |
| 9 | Complete Ration | 10.5 | |
| 10 | Protein, Salt & Mineral & Milk | 55.5 | |
| 11 | Total Concentrates | 385.2 | .* |
| 12 | Forages | | 1. |
| 13 | FEED COST | | |
| 14 | Grains | 10.91 | |
| 15 | Complete Ration | 1.15 | |
| 16 | Protein, Salt & Mineral & Milk | 7.54 | |
| 17 | Forages | ,,,,, | |
| 18 | Pasture | and the second | |
| 19 | Total Feed Costs | \$ 19.60 | the state of the |
| 20 | Return Over Feed Costs | \$ 22.94 | |
| 21 | OTHER DIRECT COSTS | | |
| 22 | Misc. Livestock Expense | . 55 | |
| 23 | Veterinary Expense | | |
| 24 | Custom Hauling, Grinding, Mktg., Etc | 19 E | |
| | Special Hired Labor | | |
| 26 | Total Other Direct Costs | \$ 1.85 | |
| 27 | Return Over Feed & Other Direct Costs | \$ 21.09 | |
| 28 | ALLOCATED COSTS | | |
| 29 | Power & Mach. Costs (PCAF 1.00) | .94 | |
| 30 | Livestock Equip. Costs (ECAF 1) | .92 | |
| 31 | Building & Fences (BCAF 1) | .21 | |
| 32 | Total Allocated Costs | 2.07 | |
| 33 | Return Over All Listed Costs | \$ 19.02 | |
| 34 | SUPPLEMENTARY MANAGEMENT INFORMATION | 7 17:02 | |
| 35 | Return for \$100 Feed Fed | 217.04 | |
| 36 | Price Received per CWT | 50.02 | |
| 37 | Average Weight of Pigs Sold | 235.6 | |
| 38 | Average Price Paid per Pig Bought | 43.12 | |
| 39 | | 41.9 | |
| 40 | Average Weight per Pig Bought | 363 | |
| 41 | Number of Pigs Purchased | 235 | |
| | Number Pigs Transferred In | 59.3 | |
| 42 43 | Average Weight of Pigs Trans. In | 15217 | • |
| | Pounds of Pork Purchased | 2.4 | |
| 44 45 | Percent Death Loss | 5.09 | |
| 45 | Price per CWT Concentrate | 13.59 | |
| 46 | Price per CWT Protein, Salt & Min. | | |
| 47 | Effective Daily Gain-Lbs. per Day/Pi | ·" | |
| 48 | Total Listed Cost per CWT Pork | Prod. 23.52 | |

Table 11C - 6510 Hogs, Weaning Pig Production, 1986

| Tar | ole IIC - 6510 Hogs, weaning Pig Product | TOU | , 1900 | | | _ |
|---------------|--|-----|----------|------------|--------|---|
| | | Av | erage of | High 8 | Low 8 | |
| It ϵ | ems | 17 | Farms | Farms | Farms | |
| | | | | PER LITTER | | |
| 1 | Number of Litters Farrowed | - | 103 | 90 | 126 | |
| 2 | Net Value Produced | \$ | 368.46 | 412.94 | 338.50 | |
| 3 | Other Miscellaneous Weaning Pig Income | ŕ | | | | |
| 4 | Total Value Produced | \$ | 368.46 | 412.94 | 338.50 | |
| 5 | POUNDS OF FEED FED | ~ | 000.10 | 11 | 330.30 | |
| 6 | Corn | | 517.7 | 666.6 | 423.1 | |
| 7 | Small Grain | | 1302.8 | 1109.0 | 1401.4 | |
| 8 | Complete Ration | | 353.6 | 536.7 | 220.2 | |
| 9 | Protein, Salt & Mineral & Milk | | 262.7 | 239.8 | 283.4 | |
| 10 | Total Concentrates | | 2436.8 | 2552.1 | 2328.1 | |
| 11 | | ٠ | | | | |
| 12 | Forages | | 63.4 | 75.0 | 56.5 | |
| | FEED COST | | (2) 477 | E3 40 | 60.04 | |
| 13 | Grains | | 62.47 | 51.40 | 69.84 | |
| 14 | Complete Ration | | 40.59 | | 42.37 | |
| 15 | Protein, Salt & Mineral & Milk | | 56.76 | | 51.46 | |
| 16 | Forages | | 1.17 | | .94 | |
| 17 | Pasture | | .16 | | | |
| 18 | Total Feed Costs | \$ | 161.15 | | 164.61 | |
| 19 | Return Over Feed Costs | \$ | 207.31 | 256.18 | 173.89 | |
| 20 | OTHER DIRECT COSTS | | | | | |
| 21 | Miscellaneous Livestock Expense | | 9.08 | 12.36 | 6.81 | |
| 22 | Veterinary Expense | | 9.12 | 10.46 | 8.34 | |
| 23 | Custom Hauling, Grinding, Mktg., Etc. | | 3.93 | 4.14 | 3.84 | |
| 24 | Special Hired Labor | | | | | |
| 25 | Total Other Direct Costs | \$ | 22.13 | 26.96 | 18.99 | |
| 26 | Return Over Feed & Other Direct Costs | \$ | 185.18 | 229.22 | 154.90 | |
| 27 | ALLOCATED COSTS | | | | | |
| 28 | Power & Machinery Costs (PCAF 1.00) | | 16.48 | 17.36 | 16.22 | |
| 29 | Livestock Equip. Costs (ECAF 1) | | 20.04 | | 10.04 | |
| 30 | Building & Fences (BCAF 1) | | 3.08 | 1.98 | 3.82 | |
| 31 | Total Allocated Costs | \$ | 39.60 | 56.90 | 30.08 | |
| 32 | Return Over All Listed Costs | s | 145.58 | | | |
| 33 | SUPPLEMENTARY MANAGEMENT INFORMATION | 7 | | | | |
| 34 | Return for \$100 Feed Fed | | 228.65 | 263.43 | 205.64 | |
| 35 | Average Price Rec. per Animal Sold | | 51.46 | 49.54 | | |
| 36 | Average Price per Pig Sold or Transf. | | 44 75 | | | |
| 37 | Average Wght. per Pig Sold or Transf. | | | | | |
| 38 | | | 751 | 704 | 878 | |
| 39 | · _ · _ · | | | 10.0 | | |
| | | 200 | | 7.0 | 9.0 | |
| 40 | Number of Pigs Weaned per Litter | | 7.3 | | 7.0 | |
| 40A | , , , | | 1.7 | | 1.9 | |
| 40B | - | | | 11.7 | | |
| 41 | Percent Death Loss | | | 17.6 | | |
| 42 | Price per CWT Concentrate Fed | | 6.56 | 6.07 | 7.03 | |
| 43 | Price per CWT Prot., Salt & Min. Fed | | 21.60 | 27.45 | 18.16 | |
| 44 | Feed & Direct Costs per Pig Produced | | 25.14 | | | |
| 45 | Total Listed Costs per Litter | | 222.88 | 240.62 | 213.68 | |
| | | | | | | |

Table 12 - 6290 Dairy Cows, Commercial, 1986

| Tab | ole 12 - 6290 Dairy Cows, Commercial, 19 | 986 | | | | |
|-----|---|----------|-----------|------------|-----------|--|
| | | Av∈ | rage of | High 18 | Low 18 | |
| Ite | ems | 92 | Farms | Farms | Farms | |
| 1 | Average Number of Cows | | 45.7 | 55.3 | 37.9 | |
| | | | | PER COW | | |
| 2 | Pounds of Milk | | 14561 | 16902 | 11347 | |
| 3 | Pounds of Butterfat | | 534.5 | 607.0 | 429.7 | |
| 4 | Percent of Butterfat in Milk | | 3.7 | 3.6 | 3.8 | |
| | VALUE OF PRODUCE | | | | | |
| 6 | Dairy Products Sold | s 1 | .667.18 | 1947.90 | 1270.61 | |
| 7 | Dairy Products Used in Home | | 7.40 | 5.88 | 6.78 | |
| 8 | Milk Fed to Livestock | | 20.09 | 29.19 | 18.58 | |
| 9 | Net Change in Value of Cows | 1- | 101.90) | | (-111.90) | |
| 10 | Other Miscellaneous Dairy Income | ` | 2.04 | 8.61 | () | |
| 11 | Total Value Produced | e 1 | 594.81 | | 1184.07 | |
| | | γı | JJ4.01 | TO 7 . 40 | 1104.07 | |
| 12 | POUNDS OF FEED FED | | 2851.1 | 4230.0 | 1808.2 | |
| | Corn | | | | | |
| 14 | Small Grain | | 1688.7 | 1184.7 | 1490.9 | |
| 15 | Complete Ration | | 920.0 | 449.9 | 1762.2 | |
| 16 | Protein, Salt & Mineral | | 1147.9 | 1178.6 | 1101.2 | |
| 17 | Total Concentrates | | 6607.7 | 7043.2 | 6162.5 | |
| 18 | Legume Hay | | 7333.2 | 7461.7 | 7937.5 | |
| 19 | Other Hay & Dry Roughage | | 619.2 | 1177.6 | 794.5 | |
| 20 | Silage | | 7852.3 | 7032.4 | 5325.4 | |
| 20A | Haylage | | 2587.8 | 1294.0 | 2568.2 | |
| 21 | FEED COSTS | | | | • | |
| 22 | Grains | | 152.45 | 167.99 | 106.60 | |
| 23 | Complete Ration | | 60.66 | 34.41 | 110.11 | |
| 24 | Protein/Salt/Minrl (Cost/CWT Fed) | | 129.98 | 139.39 | 111.06 | |
| 25 | Hay/Haylage & Dry Roughage | | 201.71 | 177.49 | 206.31 | |
| 26 | Silage | | 56.21 | 49.24 | 37.07 | |
| 27 | Pasture | | 4.27 | | 11.56 | |
| | | Ċ | 605.28 | 568.52 | 582.71 | |
| 28 | Total Feed Costs | | 989.53 | 1328.88 | 601.36 | |
| 29 | Return Over Feed Costs | ş | 202.33 | 1320.00 | 001.30 | |
| 30 | OTHER DIRECT COSTS | | 158.93 | 201.21 | 119.53 | |
| 31 | Miscellaneous Livestock Expense | | | 51.90 | 16.68 | |
| 32 | Veterinary Expense | | 35.16 | | | |
| 33 | Custom Hauling, Grinding, Marketing, | Etc. | , /D.14 | 85.41 | 56.15 | |
| 34 | Special Hired Labor | ~ | 240 22 | 220 52 | 100.26 | |
| 35 | Total Other Direct Costs | | 269.23 | 338.52 | 192.36 | |
| 36 | Return Over Feed & Other Direct Costs | Ş | 720.30 | 990.36 | 409.00 | |
| 37 | ALLOCATED COSTS | | | | F2 00 | |
| 38 | Power & Mach. Costs (PCAF 1.00) | | 66.00 | 75.35 | 52.00 | |
| 39 | Livestock Equip. Costs (ECAF 1) | | 66.18 | 84.43 | 35.16 | |
| 40 | Bldgs. & Fences (BCAF 1) | | 18.71 | 22.34 | 13.76 | |
| 41 | Total Allocated Costs | | 150.89 | 182.12 | 100.92 | |
| 42 | Return Over All Listed Costs | \$ | 569.41 | 808.24 | 308.08 | |
| 43 | SUPPLEMENTARY MANAGEMENT INFORMATION | | | | | |
| 44 | Return for \$100 Feed Fed | | 263.48 | 333.74 | 203.20 | |
| 45 | Feed Cost per CWT Milk | | 4.15 | 3.37 | 5.14 | |
| 46 | Feed Cost per Pound of Butterfat | | 1.13 | .94 | 1.36 | |
| 47 | Pounds of Milk per Pound of Concentra | ate | 2.20 | 2.40 | 1.84 | |
| 48 | Average Price per CWT Milk Sold | | 11.65 | 11.74 | 11.41 | |
| 49 | Average Price per CWI WIIK Sold Average Price per Pound of Butterfat | | 3.17 | 3.27 | 3.02 | |
| | | | 7.04 | 6.44 | 7.72 | |
| 50 | Total Listed Costs per CWT Milk Prod | • | 37.2 | 41.6 | 31.7 | |
| 51 | Dairy Cow Turnover Percentage | ć T | L025.40 | 1089.16 | 875.99 | |
| 52 | Total Listed Costs per Cow | ∟ ٻ | LUZJ • 7U | TOO > * TO | 010.99 | |
| | | | | | | |

Table 13 - 6310 Other Dairy, Replacements, 1986

| | DIE 13 - 0310 Other Daily, Replacements, | | erage of | High 18 | Low 18 |
|----------------|--|----------|----------|------------------|----------|
| It | ems | | Farms | Farms | Farms |
| 1 | Number of Head | | 59.3 | 51.3 PER HEAD | 56.4 |
| 2 | Net Value Produced | \$ | 267.76 | 357.52 | 180.21 |
| 3 | Other Miscellaneous Income | | | | |
| 4 | Total Income | \$ | 267.76 | 357.52 | 180.21 |
| 5 | POUNDS OF FEED FED | | | | |
| 6 | Corn | | 343.5 | 256.6 | 473.3 |
| 7 | Small Grain | | 401.3 | 245.2 | 750.5 |
| 8 | Complete Ration | | 147.6 | 26.4 | 300.0 |
| 9 | Protein, Salt & Minerals | | 139.6 | 143.3 | 107.4 |
| 10 | Hay & Dry Roughage | | 3536.3 | 2911.0 | 4758.1 |
| 11 | Silage | | 4774.9 | 3640.9 | 5468.9 |
| 11A | | | 416.7 | 106.1 | 311.3 |
| 12 | Milk | | 142.6 | 73.0 | 159.1 |
| 10 | ETTED COORG | | | | |
| 13 14 | FEED COSTS Grains | | 25.30 | 15.87 | 40.14 |
| | | | 13.84 | 3.00 | 23.26 |
| 15 | Complete Ration | | 16.22 | 17.13 | 17.16 |
| 16 | Protein, Salt & Minerals | | 72.16 | 58.69 | 101.26 |
| 17 | Hay/Haylage & Dry Roughage | | 34.05 | 25.15 | 40.48 |
| 18 | Silage | | 15.82 | 9.43 | 17.27 |
| 19 | Milk | | 2.61 | .94 | 1.83 |
| 20 | Pasture | بن | 180.00 | 130.21 | 241.40 |
| 21 | Total Feed Costs | \$ \$ | 87.76 | 227.31 | (-61.19) |
| 22 | Return Over Feed Costs | ÷ | 01.10 | 221.31 | (-01.19) |
| 23 | OTHER DIRECT COSTS | | 0.0 | <i>C</i> 1 | 3 7 |
| 24 | Miscellaneous Expense | | .86 | .64 | .11 |
| 25 | Veterinary Expense | | .44 | .29 | .20 |
| 26 | Custom Hauling, Grinding, Marketing, | Etc. | 27 | .06 | |
| 27 | Special Hired Labor | | | 20 | 2.7 |
| 28 | Total Other Direct Costs | \$ | 1.57 | .99 | .31 |
| 29 | Return Over Feed & Other Direct Costs | \$ | 86.19 | 226.32 | (-61.50) |
| 30 | ALLOCATED COSTS | | | | |
| 31 | Power & Machinery Costs (PCAF 1.00) | | 11.39 | 9.27 | 12.12 |
| 32 | Livestock Equip. Costs (ECAF 1) | | 11.48 | 11.52 | 9.14 |
| 33 | Buildings & Fences (BCAF 1) | | 3.25 | 3.27 | 2.93 |
| 34 | Total Allocated Costs | \$ | 26.12 | 24.06 | 24.19 |
| 35 | Return Over All Listed Costs | \$ | 60.07 | 202.26 | |
| 36 | SUPPLEMENTARY MANAGEMENT INFORMATION | | | - | |
| 3 0 | ······ | | 148.75 | 274.57 | 74.65 |
| 37 38 | Return for \$100 Feed Fed Percent Death Loss - Total | 1.1. | | 6.0 | 8.3 |
| 39 | Percent Calf Death Loss | | 17.0 | 13.0 | 22.9 |
| | | ٠, | 207.69 | 155.26 | 265.90 |
| 40 | Total Listed Costs per Head | Þ | 201.03 | T33.40 | 203.30 |

Table 14 - All Dairy & Dual Purpose Cattle, 1986

| Tule - | | en e | Mary Colored | Average of | | Low 18 |
|--------|----------------------------|--|---------------------------------------|-------------|-----------------|---------|
| rte | ms | es significant for the second | | 92 Farms | Farms | Farms |
| 1 | Average | Number of C | Otate | 45.7 | 57.2 | |
| 1 | Average | ramber of C | Owa | 45./ | 5/.Z | 41.0 |
| : | | e e e e e e e e e e e e e e e e e e e | A Goral Communication | : . | PER COW | |
| 2 | Value of | Dairy Prod | ucts | \$ 1694.66 | 1945.02 | 1286.22 |
| | | ge in Value | | 237.61 | 317.85 | 111.61 |
| | | neous Dairy | | 2.04 | 311,103 | TTTOOT |
| 5 | | otal Value | | \$ 1934.31 | 2262.87 | 1397.83 |
| _ | - | | 1 2 00000 | ψ T)34*3I | 2202.07 | 1377.03 |
| 6 - | POUNDS C | F FEED FED | | | | |
| 7 | Grains | | | 5487.8 | 6485.1 | 5042.5 |
| 8 | 4 4 4 | te Rations | | 1107.7 | 621.0 | 1336.3 |
| 9 . | | | , Incl. Milk Equi | | 1490.3 | 1192.6 |
| 0 | | Dry Roughag | | 12438.4 | 12659.1 | 11181.6 |
| 1 | Silage | | _ | 13858.2 | 14944.2 | 10200.5 |
| 1A | Haylage | | | 3116.7 | | |
| TY | hayrag | , · | | 3110.7 | 2678.7 | 5867.2 |
| 2 | FEED COS | erre | | | | |
| 3 | Grains | | $e^{-i\omega_{i}} = e^{-i\omega_{i}}$ | 184.66 | 209.79 | 161.24 |
| 4 | | te Rations | ere e | 78.25 | 50.54 | 89.20 |
| 5 | | | , Incl. Milk | 170.53 | 181.36 | |
| 5 | | | · • | | | 134.10 |
| | | ylage & Dry | kougnage | 293.22 | 241.21 | 292.44 |
| 7 | Silage | | | 99.02 | 102.55 | 72.68 |
| 3 | | e Costs | | 7.57 | 7.50 | 14.22 |
| 9 | | otal_Feed_C | | \$ 833.25 | 792.95 | 763.88 |
|) | Return C | ver Feed Co | sts | \$ 1101.06 | 1469.92 | 633.95 |
| 1 | O | DECER COCEE | | | | |
| 1 2 | ************************** | RECT COSTS | ootoole Proones | 7.60 O.4 | 100 40 | 100 00 |
| | | | estock Expense | 160.04 | 189.48 | 108.80 |
| 3 | | nary Expens | | 35.71 | 47.92 | 16.61 |
| 4 | | | rinding, Mktg., E | tc. 75.47 | 86.54 | 49.49 |
| 5 | | l Hired Lab | | 4 05 00 | 222 24 | 384.00 |
| 5 | | | Direct Costs | \$ 271.22 | 323.94 | 174.90 |
| 7 | Return C | ver Feed & | Other Direct Cost | s \$ 829.84 | 1145.98 | 459.05 |
| , | 3 T T () () 3 MITT | n doama | | | - ¹⁸ | • |
| | ALLOCATE | | Combo | 00.73 | 01 50 | 60. 20 |
|) | | & Machinery | | 80.12 | | 69.20 |
|) | | ock Equipme | | | 107.95 | 40.34 |
| 1 | | ng & Fences | | 22.72 | 28.87 | 14.32 |
| 2 | | otal Alloca | | \$ 183.18 | 228.40 | 123.86 |
| 3 | Return C | ver All Lis | ted Costs | \$ 646.66 | 917.58 | 335.19 |
| Л | CTION TO THE | አመበአ፤ገኒ፣ አለንእነን ግ | T | | | • |
| | | | EMENT INFORMATION | | 205 25 | 100.00 |
| 5 | | for \$100 F | | 232.14 | 285.37 | 182.99 |
| 6 | Т | otal Listed | Costs per Cow | \$ 1287.65 | 1345.29 | 1062.64 |

Table 15A, 6100 Beef Breeding, Commercial, 1986

| Tab | 1e 15A, 6100 Beel Breeding, Conneccial, | | erage of | High 14 | Low 14 |
|-----|---|----------|----------------|--------------|---------------|
| Ite | mc . | | Farms | Farms | Farms |
| 110 | ID | 7 1. | 1 011-1140 | | |
| 1. | Average Number of Beef Cows | | 63.7 | 75.4 | 49.7 |
| | Average No. of Other Beef Animals & Bul | s | | 64.7 | 66.5 |
| | Pounds of Beef Produced | _~ | 36320 | 48568 | 25178 |
| J | rounds of peer froduced | | 94424 | | |
| 4 | Net Value Produced | \$ | 318.16 | 349.14 | 273.88 |
| | Other Miscellaneous Beef Income | 7 | | | |
| 6 | Total Value Produced | \$ | 318.16 | 349.14 | 273.88 |
| | POUNDS OF FEED FED | т. | | | |
| 8 | Grain | | 464.4 | 490.4 | 368.8 |
| 9 | Protein, Salt & Mineral | | 137.9 | 51.2 | 96.2 |
| 10 | Legume Hay | | 6122.4 | 6461.7 | 5517.4 |
| 11 | Other Hay & Dry Roughage | | 1451.7 | 915.5 | 2678.9 |
| 12 | Silage | | 3790.5 | 3247.4 | 3861.8 |
| 12A | | | 3170.0 | 021,11 | 333213 |
| | Haylage | | | | |
| | FEED COSTS | | 15.35 | 17.36 | 13.06 |
| 14 | Grain | | 9.04 | 5.69 | 6.20 |
| 15 | Protein, Salt & Mineral | | 106.70 | 105.07 | 105.67 |
| 16 | Legume Hay/Haylage | | 16.89 | 8.34 | 39.52 |
| 17 | Other Hay & Dry Roughage | | 25.78 | 22.48 | 26.72 |
| 18 | Silage | | 17.94 | 11.99 | |
| 19 | Pasture Casta | Ċ | 191.70 | | 210.65 |
| 20 | Total Feed Costs | \$ | 126.46 | 178.21 | |
| 21 | Return Over Feed Costs | Ą | 120.40 | 11/0421 | 03.23 |
| | OTHER DIRECT COSTS | | 6.14 | 5.61 | 6.06 |
| 23 | Misc. Livestock Expense | | 5.82 | 4.95 | 6.32 |
| 24 | Veterinary Expense | | 7.24 | 7.37 | 6.00 |
| 25 | Custom Hauling, Grinding, Mktg., Etc. | | / • 2 - 4 | 7.57 | 0.00 |
| 26 | Special Hired Labor | \$ | 19.20 | 17.93 | 18.38 |
| 27 | Total Other Direct Costs | | 107.26 | 160.28 | 44.85 |
| 28 | Return Over Feed & Other Direct Costs | Ą | 107.20 | 100.20 | 44.03 |
| 29 | ALLOCATED COSTS | | 15.35 | 12.21 | 17.90 |
| 30 | Power & Mach. Costs (PCAF 1.00) | | 7.42 | 4.09 | 6.51 |
| | Livestock Equip. Costs (ECAF 1) | | 2.37 | 1.49 | 2.33 |
| 32 | Buildings & Fences (BCAF 1) | ċ | 25.14 | | 26.74 |
| 33 | Total Allocated Costs | \$ \$ | 82.12 | 142.49 | 18.11 |
| 34 | Return Over All Listed Costs | Þ | 02.12 | 142.49 | 10.11 |
| 35 | SUPPLEMENTARY MANAGEMENT INFORMATION | | 165.97 | 204.26 | 130.02 |
| 36 | Return for \$100 Feed Fed | | 52.58 | 53.66 | 51.55 |
| 37 | Price per CWT Sold | | | 62.84 | |
| 38 | Price per CWT Calves Sold or Transf. | | 61.71 675.6 | 687.2 | |
| 39 | Average Wghts. per Head Sold | _ | | | |
| 40 | Average Wght. per Calf Sold or Transf | • | 478.8 | 493.6 2.9 | 3.9 |
| 41 | Percent Death Loss | | 2.9 | | 96.1 |
| 42 | Percent Calf Crop | | 95.3 | · · | |
| 42A | | ~ | 6.7 | 7.1 | 8.5 255 77 |
| 43 | Total Listed Costs per Cow | \$ | 236.04 | 206.65 | 255.77 |

Table 15B - 6140 Beef Feeders, 1986

| | off for the first feet feeders, 1900 | Ave | rage of | High ll | Low 11 |
|-----|---------------------------------------|-------|---------|--|-----------------------|
| Ite | ems | 22 | Farms | Farms | Farms |
| | | | cut | | |
| 1 | Average Number of Beef Feeders | | 52.3 | 58.2 | 46.3 |
| 2 | Pounds of Beef Produced | | 28972 | 30505 | 27438 |
| | | | | The property of the second | (x,y) = (x,y) + (y,y) |
| 3 | Net Value Produced | \$ | 49.96 | 58.84 | 40.08 |
| 4 | Other Miscellaneous Beef Income | • | | 100 100 | |
| 5 | Total Value Produced | \$ | 49.96 | 58.84 | 40.08 |
| 6 | POUNDS OF FEED FED | | | | |
| 7 | Grain | 1. 1 | 331.8 | 267.3 | 403.6 |
| 8 | Protein, Salt & Mineral | | 87.7 | 53.9 | 125.2 |
| 9 | Legume Hay | | 426.4 | 473.1 | 374.4 |
| 10 | Other Hay & Dry Roughage | | 115.9 | | 171.3 |
| 11 | Silage | | 662.1 | | 758.7 |
| 11A | Haylage | | 002 | 3/3.2 | 750.7 |
| 12 | FEED COST | | . * - | 41 | |
| 13 | Grain | | 11.28 | | 12.65 |
| 14 | Protein, Salt & Mineral | | | | |
| | | | 5.04 | | 6.11 |
| 15 | Legume Hay/Haylage | | 8.31 | | 7.65 |
| 16 | Other Hay & Dry Roughage | | 1.71 | 1.04 | 2.45 |
| 17 | Silage | | 5.05 | | |
| 18 | Pasture | | .17 | | .35 |
| 19 | Total Feed Cost | \$ | 31.56 | | 35.40 |
| 20 | Return Over Feed Cost | \$ | 18.40 | 30.75 | 4.68 |
| 21 | ODETED DEPEND GOODS | | | 4 | ** |
| 21 | OTHER DIRECT COSTS | | | | |
| 22 | Miscellaneous Livestock Expense | | 1.17 | | 1.50 |
| 23 | Veterinary Expense | | 1.64 | | .98 |
| 24 | Custom Hauling, Grinding, Mkg. Etc. | | 2.33 | 2.89 | 1.71 |
| 25 | Special Hired Labor | | | | |
| 26 | Total Other Direct Costs | \$ | 5.14 | 6.00 | 4.19 |
| 27 | Return Over Feed & Other Direct Costs | \$ | 13.26 | 24.75 | .49 |
| | | | | | |
| 28 | ALLOCATED COSTS | | | | |
| 29 | Power & Mach. Costs (PCAF 1.00) | | 2.52 | 2.76 | 2.25 |
| 30 | Livestock Equip. Costs (ECAF 1) | | 1.52 | .99 | 2.10 |
| 31 | Building & Fences (BCAF 1) | | .54 | .39 | .70 |
| 32 | Total Allocated Costs | \$ | 4.58 | 4.14 | 5.05 |
| 33 | Return Over All Listed Costs | \$ | 8.68 | 20.61 | |
| | | | | No. of the | ,, |
| 34 | SUPPLEMENTARY MANAGEMENT INFORMATION | | | | |
| 35 | Return for \$100 Feed Fed | | 158.28 | 209.48 | 113.22 |
| 36 | Price per CWT Sold | | 53.36 | | 52.15 |
| 37 | Average Weight per Head Sold | | 786.0 | and the second s | 837.5 |
| 38 | Price per CWT Bought | | 64.33 | | |
| | - | 100 | | | 61.55 |
| 39 | Average Weight per Head Bought | | 417.8 | | 324.0 |
| 40 | Number of Head Bought | . *1. | 51 | 81 | 22 |
| 41 | Percent Death Loss | | 2.0 | 1.7 | 2.4 |
| 42 | Effective Daily Gain-Pounds/Head/Day | | 1.52 | 1.44 | 1.62 |
| 43 | Total Listed Cost per CWT Prod. | \$ | 41.28 | 38.23 | 44.64 |
| | | | | | |

Table 16A - 6670 Sheep - Commercial, 1986

| T+4 | ems · | Average of 6 Farms |
|-----------|---|----------------------|
| | 4110 | |
| 1 | Average Number of Ewes | 141.4 |
| 2 . | Pounds of Lamb & Mutton Produced | 16461 |
| 3 | Pounds of Wool Produced | 1805 |
| | | |
| 4 | VALUE OF PRODUCE | |
| 5 | Wool | \$ 19.17 |
| 6 | Net Value Produced - Animals | 93.08 |
| 7 | Other Miscellaneous Sheep Income | .59 |
| 8 | Total Value Produced | 112.84 |
| 9 | POUNDS OF FEED FED | |
| 10 | Grain | 564.9 |
| 11 | Protein, Salt & Mineral | 6.5 |
| 12 13 | Legume Hay | 1240.0 |
| 13 14 | Other Hay & Dry Roughage Silage | 318.2 |
| 14A | Haylage | |
| 15 | FEED COSTS | |
| 16 | Grain | 22.84 |
| 17 | Protein, Salt & Mineral | 1.31 |
| 18 | Legume Hay/Haylage | 16.82 |
| 19 | Other Hay & Dry Roughage | 5.57 |
| 20 | Silage | . |
| 21 | Pasture | 2.72 |
| 22 | Total Feed Costs | \$ 49.26 |
| 23 | Return Over Feed Costs | \$ 63.58 |
| | | |
| 24 | OTHER DIRECT COSTS | |
| 25 | Miscellaneous Livestock Expense | 2.07 |
| 26 | Veterinary Expense | 2.82 |
| 27 | Custom Hauling, Grinding, Mktg., Etc. | 6.70 |
| 28 | Special Hired Labor Total Other Direct Costs | ¢ 11.50 |
| 29 30 | Return Over Feed & Other Direct Costs | \$ 11.59 \$ 51.99 |
| 30 | Return over reed & Other Direct Costs | \$ 51.99 |
| 31 | ALLOCATED COSTS | |
| 32 | Power & Machinery Costs (PCAF 1.00) | 6.47 |
| 33 | Livestock Equipment Costs (ECAF 1) | 1.61 |
| 34 | Buildings & Fences (BCAF 1) | 2.20 |
| 35 | Total Allocated Costs | \$ 10.28 |
| 36 | Return Over All Listed Costs | \$ 41.71 |
| | | |
| 37 | SUPPLEMENTARY MANAGEMENT INFORMATION | |
| 38 | Return for \$100 Feed Fed | 229.06 |
| 39 | Price per CWT Lamb & Mutton Sold | 68.21 |
| 40 | Price per CWT Lamb Sold or Transf. | 70.18 |
| 41 | Average Wt. of Lambs Sold or Transf. | 99.7 |
| 42 | Pounds of Wool per Sheep Sheared | 10.8 |
| 43 | Number of Ewes Kept for Lambing | 151 |
| 44 45 | Percent Lamb Crop Percent Death Loss | 143.6 |
| 45 45A | Percent Lamb Death Loss | 12.0 17.0 |
| 45A 46 | Total Listed Costs per Ewe | \$ 71.13 |
| T (1) | read and ever per and | 4 : **** |

180-120-13

| Farm Grown Gr | ains | | | Forages | |
|---|---|------------------------------|-------------------|---|---|
| Oats Barley, Feed Wheat Oats Mixture Corn | 100 (100 (100 (100 (100 (100 (100 (100 | 1.35 2.35 1.46 1.66 | Bu. Bu. Bu. | Alfalfa Wild Hay Mixed Legume Haylage (55% Moist Corn Silage Straw | 22.00 Ton 32.00 Ton ure) 24.20 Ton 13.83 Ton .45 Bale |
| Milk for Feed | | | | | |
| Whole Milk - | Gr. A | \$10.84 | . : | | |
| Milk Beef (live) Hogs (live) | 100 114 24 100 100 100 100 100 100 100 100 100 10 | .24 57.00 48.00 | Qt. CWT | (unless otherwise | bor - \$5.00 per day e specified) |
| | | | | | $e^{\frac{i\pi}{2}}f_{ij}^{(1)} = \frac{\pi}{2} e^{\frac{i\pi}{2}}$ |

EXPLANATION OF "WORK UNITS"

The total "Work Units" for any one farm is a measure of the size of that farm's business. A work unit as used in this report is the average accomplishment of a farm worker, in a ten hour day, working on crops and productive livestock at an average efficiency. The number of work units for each class of livestock and each acre of crop are presented below. Days of work off the farm for pay are not included in work units computations in this report.

Number of Units for Each Class of Livestock and Acre of Crop

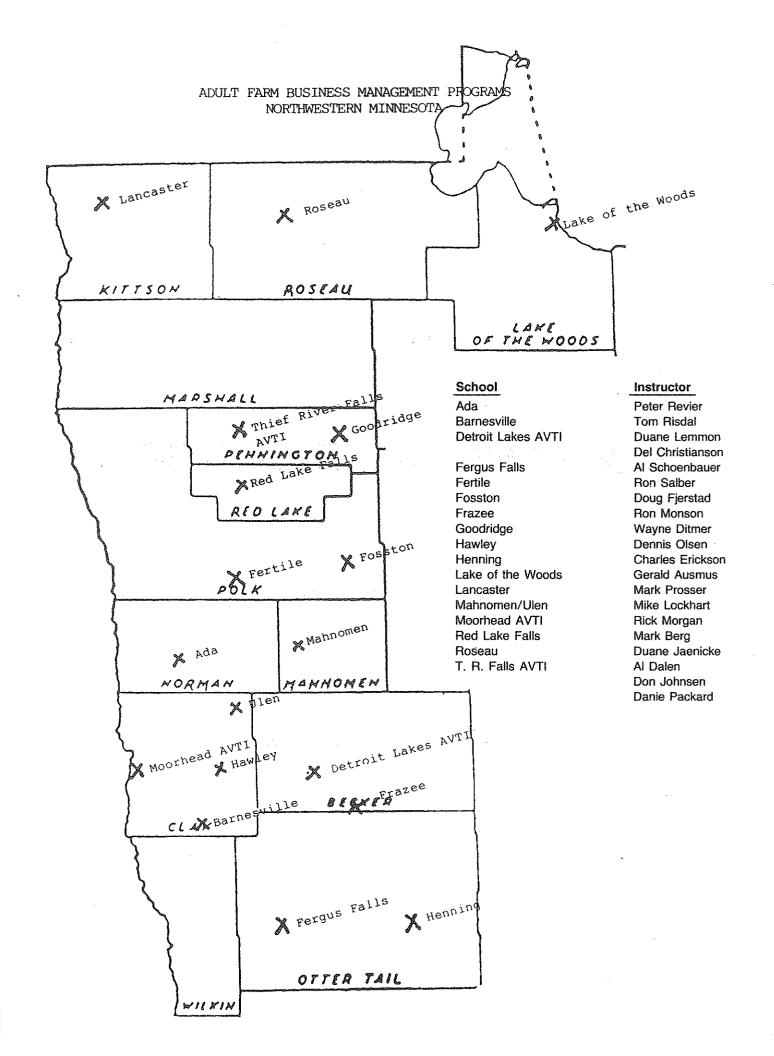
| Item | No. of Work Units | <u>Item</u> | No. of Work Units |
|--|---|--|--|
| Dairy Cows Other Dairy Cows Beef Breeding Cows Feeder Cattle Sheep, Farm Flock Lambs, Feeders Hogs, Complete Hogs, Finishing Hogs, Weaning Pigs Chickens, Lay., Flock Chickens, Broilers Turkeys, Poults | 7.00 per Head 1.20 per Head 1.50 per Head 1.50 per Head 1.2 per CWT 60 per Head 30 per CWT 12 per CWT 140 per CWT 1.40 per Litter 5.00 per 100 20 per CWT | Turkeys Bees Small Grain Corn for Grain Corn Silage Alfalfa Other Hay Legume Seed Grass Silage Potatoes Sugar Beets Fallow | 25.00 per 100 .33 per Hive .30 per Acre .55 per Acre .80 per Acre .60 per Acre .40 per Acre .300 per Acre .300 per Acre |
| | | Sunflowers | .40 per Acre |

SUMMARY OF MISCELLANEOUS ITEM BY YEAR, 1986

| Items | | 1982 | 1983 | 1984 | 1985 | 1986 |
|---|-----------|---|--|--|---|---|
| Miscellaneous | | | | | | |
| Average Tillable Acres | | 810.9 | 753.8 | 762.5 | 839.4 | 775.9 |
| Total Farm Capital | Ç | 527831 | 503774 | 497770 | 501762 | 439821 |
| Expenses per Dollar Income | | .99 | .96 | .94 | .94 | .93 |
| Percent Income from Farm Crops | 3 | 78 | 82 | 80 | 72 | 74 |
| Percent Income from Farm Lvst | ۲. | 22 | 18 | 20 | 23 | 20 |
| HH & Personal Expenses | | 22331 | 22052 | 22593 | 23439 | 22800 |
| Trac. & Mach. Exp. per Crop Ac | cre | 38.91 | 36.29 | 36.70 | 35.26 | 32.04 |
| Efficiencies | | | | | | |
| Yield per Acre: | | | | | | |
| Oats | | 61.0 | 51.2 | 64.3 | 59.7 | 50.3 |
| Alfalfa | | 2.7 | 3.1 | 2.6 | 2.7 | 3.6 |
| Barley | | 58.9 | 48.3 | 61.5 | 62.6 | 53.4 |
| Wheat, Spring | | 38.7 | 26.5 | 48.8 | 53.1 | 34.1 |
| Flax | | 5.7 | 5.3 | 16.5 | 15.2 | 14.1 |
| Sugar Beets | | 42.9* | 37.1* | 40.3* | 42.5* | 43.6* |
| Corn | | 73.7 | 66.4 | 62.2 | 56.3 | 83.5 |
| Sunflowers | | 11.6 | 10.0 | 11.1 | 8.1 | 13.9 |
| Soybeans | | 27.8 | 33.4 | 25.4 | 22.3 | 34.4 |
| *CWT Extractible Sugar | | | | | | |
| | | | | | | |
| | \$ | 1007 | 948 | 1008 | 968 | 990 |
| Return Above Feed Cost Per: | \$ | 1007 28 | 948 4 | 1008 6 | 968 7 | 990 23 |
| Return Above Feed Cost Per: Dairy Cow | \$ | | | | | |
| Return Above Feed Cost Per: Dairy Cow CWT Hogs | \$ | 28 | 4 | . 6 | 7 | 23 |
| Return Above Feed Cost Per: Dairy Cow CWT Hogs Ewe | \$ | 28 (-23) | 4 21 | 6 34 | 7 39 | 23 64 |
| Return Above Feed Cost Per: Dairy Cow CWT Hogs Ewe Hogs, Litter | \$ | 28 (-23) 227 | 4 21 64 | 6 34 120 | 7 39 101 | 23 64 207 |
| Return Above Feed Cost Per: Dairy Cow CWT Hogs Ewe Hogs, Litter CWT Cattle Beef Cow | \$ | 28 (-23) 227 20 | 4 21 64 12 | 6 34 120 14 | 7 39 101 10 | 23 64 207 18 |
| Return Above Feed Cost Per: Dairy Cow CWT Hogs Ewe Hogs, Litter CWT Cattle Beef Cow Prices Received Per: | | 28 (-23) 227 20 95 | 4 21 64 12 44 | 6 34 120 14 75 | 7 39 101 10 | 23 64 207 18 |
| Return Above Feed Cost Per: Dairy Cow CWT Hogs Ewe Hogs, Litter CWT Cattle Beef Cow Prices Received Per: Oats, Bushel | | 28 (-23) 227 20 95 | 4 21 64 12 | 6 34 120 14 75 | 7 39 101 10 60 | 23 64 207 18 126 |
| Dairy Cow CWT Hogs Ewe Hogs, Litter CWT Cattle Beef Cow Prices Received Per: Oats, Bushel Alfalfa, Ton | | 28 (-23) 227 20 95 | 21 64 12 44 1.52 44.95 | 6 34 120 14 75 | 7 39 101 10 60 | 23 64 207 18 126 |
| Dairy Cow CWT Hogs Ewe Hogs, Litter CWT Cattle Beef Cow Prices Received Per: Oats, Bushel Alfalfa, Ton Barley, Bushel | | 28 (-23) 227 20 95 1.42 43.00 1.87 | 4 21 64 12 44 | 6 34 120 14 75 | 7 39 101 10 60 1.22 46.66 | 23 64 207 18 126 |
| Dairy Cow CWT Hogs Ewe Hogs, Litter CWT Cattle Beef Cow Prices Received Per: Oats, Bushel Alfalfa, Ton | | 28 (-23) 227 20 95 | 1.52 44.95 2.28 | 1.54 46.12 2.03 | 7 39 101 10 60 1.22 46.66 1.87 | 23 64 207 18 126 1.23 41.40 1.47 |
| Dairy Cow CWT Hogs Ewe Hogs, Litter CWT Cattle Beef Cow Prices Received Per: Oats, Bushel Alfalfa, Ton Barley, Bushel Wheat, Bushel Flax, Bushel | | 28 (-23) 227 20 95 1.42 43.00 1.87 3.79 4.21 | 1.52 44.95 2.28 3.76 5.13 | 1.54 46.12 2.03 3.40 5.92 | 7 39 101 10 60 1.22 46.66 1.87 3.30 | 23 64 207 18 126 1.23 41.40 1.47 2.40 |
| Dairy Cow CWT Hogs Ewe Hogs, Litter CWT Cattle Beef Cow Prices Received Per: Oats, Bushel Alfalfa, Ton Barley, Bushel Wheat, Bushel Flax, Bushel Sugar Beets, CWT Ext. Sugar | | 28 (-23) 227 20 95 1.42 43.00 1.87 3.79 | 1.52 44.95 2.28 3.76 | 1.54 46.12 2.03 3.40 | 7 39 101 10 60 1.22 46.66 1.87 3.30 5.09 | 23 64 207 18 126 1.23 41.40 1.47 2.40 3.73 |
| Dairy Cow CWT Hogs Ewe Hogs, Litter CWT Cattle Beef Cow Prices Received Per: Oats, Bushel Alfalfa, Ton Barley, Bushel Wheat, Bushel Flax, Bushel Sugar Beets, CWT Ext. Sugar Corn, Bushel | | 28 (-23) 227 20 95 1.42 43.00 1.87 3.79 4.21 13.10 | 1.52 44.95 2.28 3.76 5.13 14.99 2.83 | 1.54 46.12 2.03 3.40 5.92 14.64 2.56 | 7 39 101 10 60 1.22 46.66 1.87 3.30 5.09 | 23 64 207 18 126 1.23 41.40 1.47 2.40 3.73 |
| Dairy Cow CWT Hogs Ewe Hogs, Litter CWT Cattle Beef Cow Prices Received Per: Oats, Bushel Alfalfa, Ton Barley, Bushel Wheat, Bushel Flax, Bushel Sugar Beets, CWT Ext. Sugar Corn, Bushel Sunflowers, CWT | | 28 (-23) 227 20 95 1.42 43.00 1.87 3.79 4.21 13.10 2.23 8.68 | 1.52 44.95 2.28 3.76 5.13 | 6 34 120 14 75 1.54 46.12 2.03 3.40 5.92 | 7 39 101 10 60 1.22 46.66 1.87 3.30 5.09 12.76 2.01 | 23 64 207 18 126 1.23 41.40 1.47 2.40 3.73 13.55 1.55 |
| Dairy Cow CWT Hogs Ewe Hogs, Litter CWT Cattle Beef Cow Prices Received Per: Oats, Bushel Alfalfa, Ton Barley, Bushel Wheat, Bushel Flax, Bushel Sugar Beets, CWT Ext. Sugar Corn, Bushel Sunflowers, CWT Soybeans, Bushel | | 28 (-23) 227 20 95 1.42 43.00 1.87 3.79 4.21 13.10 2.23 8.68 5.03 | 1.52 44.95 2.28 3.76 5.13 14.99 2.83 12.67 7.41 | 1.54 46.12 2.03 3.40 5.92 14.64 2.56 10.87 | 7 39 101 10 60 1.22 46.66 1.87 3.30 5.09 12.76 2.01 7.97 4.82 | 23 64 207 18 126 1.23 41.40 1.47 2.40 3.73 13.55 1.55 7.01 |
| Dairy Cow CWT Hogs Ewe Hogs, Litter CWT Cattle Beef Cow Prices Received Per: Oats, Bushel Alfalfa, Ton Barley, Bushel Wheat, Bushel Flax, Bushel Sugar Beets, CWT Ext. Sugar Corn, Bushel Sunflowers, CWT Soybeans, Bushel CWT, Milk | | 28 (-23) 227 20 95 1.42 43.00 1.87 3.79 4.21 13.10 2.23 8.68 5.03 12.97 | 1.52 44.95 2.28 3.76 5.13 14.99 2.83 12.67 7.41 12.75 | 1.54 46.12 2.03 3.40 5.92 14.64 2.56 10.87 5.77 12.61 | 7 39 101 10 60 1.22 46.66 1.87 3.30 5.09 12.76 2.01 7.97 4.82 11.90 | 23 64 207 18 126 1.23 41.40 1.47 2.40 3.73 13.55 1.55 7.01 4.40 11.65 |
| Return Above Feed Cost Per: Dairy Cow CWT Hogs Ewe Hogs, Litter CWT Cattle Beef Cow Prices Received Per: Oats, Bushel Alfalfa, Ton Barley, Bushel Wheat, Bushel Flax, Bushel Sugar Beets, CWT Ext. Sugar Corn, Bushel Sunflowers, CWT Soybeans, Bushel | | 28 (-23) 227 20 95 1.42 43.00 1.87 3.79 4.21 13.10 2.23 8.68 5.03 | 1.52 44.95 2.28 3.76 5.13 14.99 2.83 12.67 7.41 | 1.54 46.12 2.03 3.40 5.92 14.64 2.56 10.87 5.77 | 7 39 101 10 60 1.22 46.66 1.87 3.30 5.09 12.76 2.01 7.97 4.82 | 23 64 207 18 126 1.23 41.40 1.47 2.40 3.73 13.55 1.55 7.01 4.40 |

SUMMARY OF FARM EARNINGS BY YEARS, 1986

| Items | 1982 | 1983 | 1984 | 1985 | 1986 |
|--|--|---|--|---|---|
| Number of Records Analyzed | 600 | 612 | 512 | 490 | 520 |
| Farm Receipts | | | | | |
| Livestock Crops Mach. & Equip. Sold & Gas Tax Ref. Income from Work Off the Farm Miscellaneous | \$ 38697 97287 2152 1063 3703 | 34373 99453 1036 907 3398 | 34897 106918 2911 1924 2973 | 35603 113069 3457 1433 5151 | 36841 104829 1866 1383 6755 |
| (1) Total Farm Sales (2) Increase in Farm Capital (3) Family Living from the Farm (4) Total Farm Rec.(1 + 2 + 3) | \$142903 1225 536 144664 | 139169 7528 509 147206 | 149623 8829 460 158912 | 158714 9 369 159092 | 151674 0 370 152044 |
| Farm Expenses | | | | | |
| Livestock & Livestock Exp. Feed Bought Fertilizers & Chemicals Other Crop Expenses Custom Work Hired Gas, Oil & Grease Bought (F.S.) Rep. & Op. Mach., Trac., Auto (F.S.) Rep. & Upkeep of Real Estate Rep. & Upkeep of Livestock Equip. Wages of Hired Labor Utility Exp. (F.S.) Real Estate Taxes Gen. Farm Expense | \$ 5721 6035 18730 15054 4507 9655 8974 1117 429 4713 1700 4115 2829 | 5224 6226 18425 15580 3775 8431 8776 1095 478 4839 1786 4040 2907 | 5384 6021 20176 16880 4117 8647 9282 860 661 5066 2032 4769 3202 | 5614 6151 21243 14441 4357 9031 10300 919 624 5580 2148 5312 3612 | 5823 7092 17239 19632 3938 6474 9573 1047 641 5672 2092 4413 3895 |
| (5) Total Cash Operating Exp. (6) Pw.Crop & Gen.Mach.Bot(F.S.) (7) Livestock Equip. Bought (8) Real Estate Bought (9) Total Farm Purch. (5 to 8) (10) Decrease in Farm Capital (11) Interest on Farm Capital (12) Unpaid Family Labor (13) Labor Chg.for Part.&Other Op. (14) Bd. Furn. Hired Labor | \$ 83578 13382 924 8526 106412 37019 51 222 63 | 81584 12533 558 9687 104362 35001 45 221 42 | 87097 14347 327 8787 110558 34535 92 142 73 | 89334 12144 594 7691 109763 35123 16 0 51 | 87531 10669 403 5196 103799 3034 30686 10 0 |
| (15) Total Farm Exp. (9 to 14) | \$143765 | 139672 | 145400 | 144953 | 137567 |
| (16) Return to Labor & Mgmt (4-15) | \$ 899 | 7534 | 13512 | 14139 | 14477 |



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