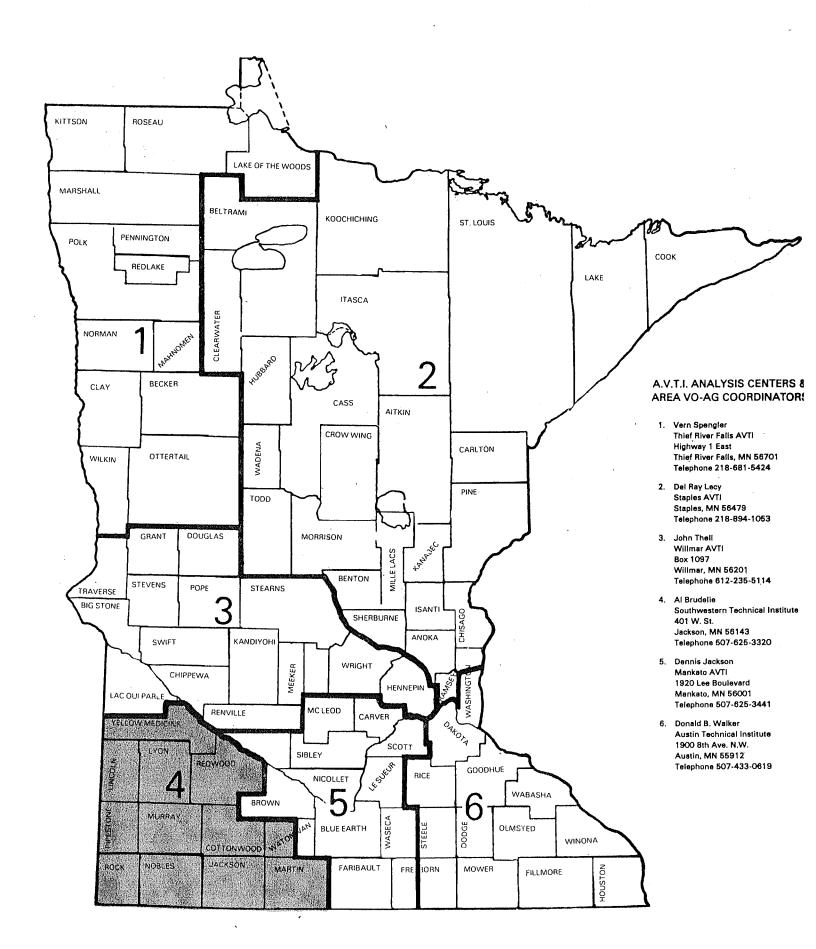


1986 Annual Report Southwestern Minnesota March, 1987

> AN ADULT EDUCATIONAL PROGRAM

In cooperation with: State Board of Vocational Technical Education
Division of Agricultural Education — University of Minnesota

SOUTHWESTERN TECHNICAL INSTITUTE



# Notes

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# 1986 ANNUAL VOCATIONAL AGRICULTURE FARM BUSINESS MANAGEMENT EDUCATION PROGRAM REPORT OF SOUTHWESTERN MINNESOTA

# AL BRUDELIE AREA VO-AG PROGRAM COORDINATOR

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### 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 (University of Minnesota) and the Department of Agricultural Economics (University of Minnesota), the program has expanded to serve over 4,500 farm families in six regional farm management areas. Programs are now managed by the Minnesota State Board of Vocational Technical Education, through AVII's and local school districts.

From the very beginning the purpose of the Farm Business Management education part of the adult agricultural program was to help farm families achieve their farm business and family goals through improved management, organization and efficiency of their farm business. 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.
- 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 course around the same central themes. They are:

- Year 1 Farm business records and accounts.
- Year 2 Farm business analysis and evaluation.
- Year 2 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. There have been some research studies that show 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 summary of farm records for the Jackson area (Southwest Minnesota) shows the results of the farm businesses enrolled in management education programs in 1986. Study the results carefully so you can use this information to improve agriculture in your area and your business.

#### \*\*\*\*\*\*\*\*

Below is a listing of the schools involved and the instructors responsible for these programs.

#### Class Location

## Brewster Canby Fulda Heron Lake/Okabena Jackson

#### Granite Falls

| Lakefield |
|-----------|
| Luverne   |
| Marshall  |
| Mt. Lake  |
| Pipestone |

Slayton St. James Truman

Tyler H.V.C.C. Wabasso Worthington

#### Instructor

Gerald McConkey Dale Schoberg Mel Faltinson Dick Amendt Charles Asman Doug O'Neil M.E. Resvick Neale Deters Harry Gerdes James Ouverson Dennis Schroeder Leland Thiesen Heimer Swanson Dwayne Eisfeld Chuck Lucht Richard Spitzner Cliff Vrieze Louise Worm Paul Bartz John Clark Wayne Flynn Rolf Mahlberg

The analysis of the records and preparation of the report for the Southwest area is done under the direction of Al Brudelie, Area Ag Coordinator, at the Southwestern Technical Institute (Jackson Campus). Directing in a supervisory capacity are Marlin Wacholz, Director, Southwestern Technical Institute; Dennis Finstad, Campus Director; John Murray, Education Specialist, State Board of Vocational Technical Education; and Dr. Edgar Persons, Chairman of the University of Minnesota Agricultural Education Division. Data processing was done by Specialized Data System, Inc., Madison, Wisconsin. Special acknowledgement to Terri Pelzel for her part in the preparation of this report.

Table 1- Summary of Farm Inventories\* - 1986

| Ite | Averages of  | 280 F | arns    |  |
|-----|--|-------|---------|--|
| 1.  | Size of Farm - Total Acres   |       | 453.4   | then then the dark that had seen for that then then then then then then then the |
| 2.  | - Tillable Acres   |       | 415.7   |  |
| 3.  | Work Units - Crops   |       | 200.15  |  |
| 4.  | - Livestock  |       | 182.47  |  |
| 5.  | - Other  |       | 44.32   | •  |
| 6.  | Total Size of Business in Work Units                               |       | 426.94  |  |
| 7.  |  |       | 1.32    |  |
| 8.  | Farm Capital Investment Per Worker                                 | \$    |         | ·  |
| BA  | Farm Capital Investment Per Work Unit                              | *     |         |  |
|     |  |       | Jan. 1  | Dec. 31  |
| 9.  | Productive Livestock   |       |         |  |
| 10. | Dairy Cows   |       | 4,534   | 4,513  |
| 11. |  |       | 2,601   | 3,154  |
| 12. | Beef Breeding Cattle   |       | 2,717   | 2,716  |
| 13. | Beef Feeder Cattle   |       | 9,995   | 10,735   |
| 14. | Hogs   |       | 16,236  | 19,230   |
| 15. |  |       | 376     | 638  |
| 16. | Poultry - All Types  |       | 97      | 21   |
| 17. | Other Livestock  |       | 571     | 622  |
| 18. | Total Productive Livestock   | \$    |         | 41,629 *   |
| 19. | Crop, Seed & Feed  |       | 49,320  | 47,784   |
| 2Ó. | Power, Machinery & Equipment                                       |       |         |  |
| 21. | Auto & Truck (Farm Sharm)  |       | 2,760   | 3,016  |
| 22. | Power & Machinery<br>Irrigation Equipment<br>Custom Work Equipment |       | 27,792  | 26,330   |
| 23. | Irrigation Equipment   |       | ,       | ,  |
| 24. | Custom Work Equipment  |       | 491     | 703  |
| 25. | Livestock Equipment  |       | 5,079   | 4,567  |
| 26. | Total Power, Machinery & Equipment                                 | \$    | 36,122  | 34,616 #   |
| 27. | Land   | •     | 348,187 | 345,807  |
| 28. | Buildings-Fences-Etc.  |       | 35,698  | 33,286   |
| 29. | Total Farm Capital   | \$    | 506,454 | 503,122 *  |
| 30, | Increase or Decrease In  |       | . :     |  |
|     | Total Farm Capital   | •     |         | <b>\$</b> (3,332)*   |

\*Table 1 on this page lists the categories of Farm Capital for the averages of 280 farms. Page 4 lists the same information for the 56 most profitable and 56 least profitable farm businesses. Table 1 includes the landlord's share of the investment for rented farms.

Other measures of farm size listed in lines 1 through 8 are helpful in describing the farms included in this report.

Size as measured by acres for individual farms varied from 80 to over 1200 acres. However, the majority of the farms fell in the range of 400 to 640 acres.

Table 1- Summary of Farm Inventories\* - 1986

| Item | 5                                     | 56 FARMS<br>HIGH PROFIT |                            |      |         |  |  |  |
|------|---------------------------------------|-------------------------|----------------------------|------|---------|--|--|--|
|      |                                       |                         |                            |      |         | de sales dans dans eine eine eine eine eine eine eine ei |  |  |
|      | Size of Farm - Total Acres            | 632.9                   |                            |      |         | 465.4  |  |  |
| 2.   | - Tillable Acres                      | 600.9                   |                            |      |         | 421.8  |  |  |
| 3.   | Work Units - Crops                    | 292.96                  |                            |      |         | 198.37   |  |  |
| 4.   | - Livestock                           | 308.79                  |                            |      |         | 149.49   |  |  |
| 5.   | - Other                               | 157.49                  |                            |      |         | 22.02  |  |  |
|      | Total Size of Business in Work Units  | 759.25                  | •                          |      |         | 369.89   |  |  |
| 7.   | Number of Workers                     | 1. <b>5</b> 3           |                            |      |         | 1.42   |  |  |
| 8.   | ·                                     | \$ 524,150              |                            |      | \$      | 428,576  |  |  |
| BA   | Farm Capital Investment Per Work Unit | \$ 1,318                |                            |      | \$      | 1,787  |  |  |
|      |                                       | Jan. 1                  | Dec. 31                    |      | Jan. 1  | Dec. 31  |  |  |
| 9.   | Productive Livestock                  |                         |                            |      |         |  |  |  |
| 10.  | Dairy Cows                            | 1,931                   | 1,898                      |      | 3,687   | <b>3,04</b> 0  |  |  |
| 11.  | Other Dairy Cattle                    | 1,106                   | 1,291                      |      | 2,328   | 2,140  |  |  |
| 12.  | Beef Breeding Cattle                  | 1,650                   | 1,514                      |      | 4,148   | <b>3,974</b>   |  |  |
| 13.  | Beef Feeder Cattle                    | 20,640                  | 21,898                     |      | 11,014  | 11,265   |  |  |
| 14.  | Hogs                                  | 35,066                  | 43,979                     |      | 11,902  | 11, <i>77</i> 5  |  |  |
| 15.  | Sheep (Including Feeders) & Goats     | 371                     | 1,033                      |      | 154     | <b>38</b> 0  |  |  |
| 16.  | Poultry - All Types                   |                         | •                          |      | 477     | 95   |  |  |
| 17.  | Other Livestock                       |                         |                            |      | 38      | 30   |  |  |
| 18.  | Total Productive Livestock            | \$ 60,764               | 71,613 *                   | \$ . | 33,748  | 32,699 *   |  |  |
| 19.  | Crop, Seed & Feed                     | 75,170                  | 85,315                     |      | 54,340  | 43,468   |  |  |
| 20.  | Power, Machinery & Equipment          |                         |                            |      |         |  |  |  |
| 21.  | Auto & Truck (Farm Share)             | 2,914                   | 4,274                      |      | 4,051   | •  |  |  |
| 22.  | Power & Machinery                     | 34,535                  | 35,703                     |      | 35,232  | <b>32</b> , 110  |  |  |
| 23.  | Irrigation Equipment                  |                         |                            |      |         |  |  |  |
| 24.  | Custom Work Equipment                 |                         |                            |      |         |  |  |  |
| 25.  | Livestock Equipment                   | B, 359                  | 7,554                      |      | 4,847   | 4,115  |  |  |
| 26.  | Total Power, Machinery & Equipment    | \$ 45,808               | 47,531 *                   | \$   |         |  |  |  |
| 27.  | Land                                  | 495,328                 | 499,066                    |      | 399,876 | 383,828  |  |  |
| 28.  | Buildings-Fences-Etc.                 | 56,060                  | 53,964                     |      | 45,102  | 39,300   |  |  |
| 29.  | Total Farm Capital                    | \$ 733,130              | <b>7</b> 57 <b>,4</b> 89 * | \$   | 577,196 | <b>5</b> 39,637 *  |  |  |
| 30.  | Increase or Decrease In               |                         |                            | •    |         |  |  |  |
|      | Total Farm Capital                    |                         | \$ 24,359 *                |      |         | <b>\$</b> (37,559)*                                      |  |  |

Machinery, Equipment, and Building values reflect cost less depreciation. Land is valued at a conservative market value.

Market livestock, crops for sale or feed are valued at market price at time of inventory. Purchased and raised breeding livestock is valued at time it's put into useful production and carries same value for its useful life.

Work units provide a measure of work load and size of the farm business. Some clue to the farm organization is indicated by the distribution of work between crops and livestock.

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 2A - Whole Farm Summary of Cash Receipts - 1986

| Iten | <b>.</b>                                |    | Average   | High                                 | Low              |
|------|---|----|-----------|--------------------------------------|------------------|
|      |   |    | 280       | 56                                   | 56               |
| 1.   | Sale of Livestock & Livestock Products  |    |           | The same was the same same same same |                  |
| 2.   | Dairy Cows                              | \$ | 996       | 374                                  | 1,161            |
| 3.   | Dairy Products                          |    | 9,300     | 5,157                                | 8,082            |
| 4.   | Other Dairy Cattle                      |    | 946       | 104                                  | 549              |
| 5.   | Beef Breeding Cattle                    |    | 888       | 328                                  | 1,792            |
| 6.   | Beef Feeder Cattle                      |    | 19,603    | 43,123                               | 20,545           |
| 7.   | Hogs Complete & Mixed                   |    | 27,499    | 60,569                               | 12,600           |
| 8.   | Hogs Finishing                          |    | 17,063    | 40,244                               | 21,924           |
| 9.   | Hogs Producing Weaning Pigs             |    | 2,972     | 6,868                                | 3,086            |
| 10.  | Sheep, Goats & Wool, Farm Flock         |    | 673       | 554                                  | •                |
| 11.  | Sheep & Wool, Feeder Lambs              |    | 195       | 149                                  | 382              |
| 12.  | Chickens ( Including Hens & Broilers)   |    | 10        | 22                                   | 4 9              |
| 13.  | Turkeys                                 |    |           | 22                                   | 15               |
| 14.  | Eggs                                    |    | 370       |                                      | 4 54=            |
| 15.  | Other Productive Livestock              |    | 370<br>11 |                                      | 1,813            |
| 16.  | Other Miscellaneous Livestock Income    |    |           |                                      | 25               |
| 17.  | Total Sales of Productive Livestock     |    | 145       | 4 =                                  | 20               |
|      | . and outer of thoughties tivestock     | \$ | 80,671 *  | 157,492 *                            | 71,994           |
| 18.  | Sale of Crops                           |    |           |                                      |                  |
| 19.  | Wheat                                   |    | 1,068     | 1,039                                | 1,048            |
| 19A. | Durum                                   |    | •         |                                      | -, -, -          |
| 20.  | Other Small Grains                      |    | 261       | 202                                  | 264              |
| 21.  | Corn                                    |    | 27,400    | 45,793                               | 27,898           |
| 22.  | Soybeans                                |    | 26,170    | 41,116                               | 25,630           |
| 22A. | Sunflowers                              |    | ,_,       | 41,110                               | 20,000           |
| 23.  | Other Row Crops                         |    | 2,440     | 4,575                                | 216              |
| 24.  | Legumes & Other Forage                  |    | 451       | 192                                  | 586              |
| 25.  | Grass Seed                              |    | .01       | 1 / d                                | J00              |
| 26.  | Fruit & Nuts                            |    |           | •                                    |                  |
| 27.  | Vegetable Roadside Market & Specialty   |    |           |                                      | •                |
| 28.  | Nursery, Timber & Other                 |    | 369       | 723                                  | D0E              |
| 29.  | Set Aside Acres-Government Payments     |    | 12,001    |                                      | 805              |
| 29A. | Pik Acres                               |    | 12,001    | 20,164                               | 9,624            |
| 29B. | Sale of Crops+Supplies Purch for Resale |    | 1,903     | 1 (05                                | 4 4 4 75         |
| 50.  | Total Sales From Crops                  | \$ | 72,065 *  | 1,695                                | 1,145            |
|      |   | *  | 72,003 ×  | 115,499 *                            | 67,216           |
| 51.  | Cap. Assets Sold (Auto/Trk/Mach)        |    | 426       | 444                                  | 447              |
| 31A. | Cap. Assets Sold (Buildings & Improv.)  |    | 204       | 4                                    | 77/              |
| 51B. | Cap. Assets Sold (Land)                 |    | 1,612     | 6,886                                | 1,157            |
| 2.   | Gas Tax Refund                          |    | - 7       | ay add                               | A g I U /        |
| 3.   | Income From Work Off the Farm           |    | 2,668     | 7,229                                | 1,735            |
| 4.   | Custom Work Enterprise Income           |    | 523       | 1,349                                | 319              |
| 5.   | Patronage Refunds                       |    | 425       | 268                                  | 596              |
| 6.   | Miscellaneous Farm Income               |    | 4,873     | 7,191                                | 4,072            |
| 7.   | Total Farm Sales                        | \$ | 163,465 * | 296,362 *                            | 147,536 *        |
| 8.   | Increase in Farm Capital                |    | •         | 24,360                               | ,                |
| 9.   | Family Living From the Farm             |    | 295       | 304                                  | 223              |
| 0.   | Total Farm Receipts                     |    | 163,760 * | ~~· I                                | المراشد المراسية |

<sup>\*</sup>Operators labor and management earnings, Page 6, Line 46, represent the return to the operator after all expenses are deducted. The calculation is determined by subtracting Table 2B Line 45 From Line 40 Table 2A.

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

| ten          | 5  | Average<br>280 | High<br>56    | Low<br>56 |
|--------------|--|----------------|---------------|-----------|
| 1.           | Purchase of Livestock  |                |               |           |
| 2.           | Dairy Cows \$  | 185            |               | 38        |
| 3.           | Other Dairy Cattle   | 263            |               | 17        |
| 4.           | Beef Breeding Cattle   | 248            | <b>5</b> 0    | 49        |
| <del>.</del> | Beef Feeder Cattle   | 11,324         | 27,166        | 11,360    |
|              |  | •              |               | -         |
| 6.           | Hogs Complete & Mixed  | 1,782          | 3,719         | 644       |
| 7.           | Hogs Finishing   | 4,210          | 6,744         | 6,567     |
| 8.           | Hogs Producing Weaning Pigs                                      | 621            | 1,652         | 339       |
| 9.           | Sheep & Goats  | 116            | 121           | 243       |
| 0.           | Sheep, Feeder Lambs  | 227            | 579           |           |
| 1.           | Chickens (Including Hens & Broilers)                             | 7              | 11            | : 2       |
| 2.           | Turkeys  |                |               |           |
| 3.           | Other Productive Livestock                                       | <b>i</b>       |               |           |
| 4.           | Miscellaneous Livestock Expense                                  | 3,296          | 5,636         | 2,815     |
| 4A.          | Purch of Crops/Supplies Purch for Resale                         | 2,265          | 1,658         | 1,403     |
| 5.           | Feed Bought  | 22,234         | 46,823        | 18,273    |
| 6.           |  | 6,671          | 10,616        | 6,662     |
| 7.           | Chemicals  | 4,971          | 7,284         | 5,066     |
| В.           | Other Crop Expense   | 9,699          | 14,367        | 10,246    |
| 9.           | Irrigation Operation Expense                                     | 7,077          | 11,007        | 10,110    |
| ó.           | Custom Work Ent. Costs, Incl. Labor                              | 49             | 119           | 90        |
| 1.           | Custom Work Hired  |                |               |           |
|              |  | 3,086          | 5,259         | 2,783     |
| 2.           | Repair & Upkeep of Livestock Equip.                              | 1,200          | 1,850         | 1,355     |
| 3.           | Repair & Upkeep of Farm Real Estate                              | 864            | 1,411         | 964       |
| 4.           | Gas, Diesel + Lubricants Bought (F S)                            | 4,329          | 6,231         | 4,301     |
| 5.           | Repair of Mach, Tractor, Truck & Auto                            | 6,686          | 9,228         | 7,065     |
| 6.           | Repair & Upkeep of Irrigation Equip.                             |                |               |           |
| 7.           | Repairs - Custom Work Enterprise                                 | 113            | 56            | 39        |
| В.           | Wages of Hired Labor   | 3,299          | 5,485         | 4,406     |
| 7.           | Personal Property & Real Estate Taxes                            | 3,033          | 4,046         | 2,753     |
| ο.           | General Farm Expense   | 2,595          | 4,100         | 2,328     |
| i .          | Telephone Expense (Farm Share)                                   | 368            | 415           | 351       |
| 2.           | Electricity Expense (Farm Share)                                 | 1,780          | 2,798         | 1,742     |
| 3.           | Total Cash Operating Expense \$                                  | •              | 167,424 *     |           |
| 4.<br>5.     | Power & Mach. Bought (Farm Share)<br>Irrigation Equipment Bought | 9,227          | 15,442        | 12,602    |
| 5.           | Custom Work Equipment Bought                                     | 251            | 97            |           |
| 7.           | Livestock Equipment Bought                                       | 1,063          | 1,911         | 679       |
| 3.           | New Real Estate - Buildings/Improvements                         | 3,699          | 6,848         | 5,402     |
|              | New Real Estate - Land   | 1,981          | 4,552         | 4,314     |
|              | Total Farm Purchases (33) Thru (38A) \$                          |                | 196,274 *     | 114,898   |
| ١.           | Decrease in Farm Capital   | 3,331          |               | 37,560    |
| i .          | Interest on Farm Capital (7% Chg)                                | 35,335         | 52,172        | 39,089    |
| 2.           | Unpaid Family Labor  | 222            | 270           | 138       |
| 5.           | Labor Charge Partner & Other Operators                           | 218            | 306           | 171       |
| 1.           | Board Furnished Hired Labor                                      | 9              | - <del></del> |           |
| j.           | Total Farm Expense (39) thru (44) \$                             |                | 249,022 *     | 191,856   |
| J.           | Return to Oper.Labor & Mgmt-Single Opert.                        | AUV GUUU *     | ATTIVEE X     | 1,1,000   |
|              | · · · · · · · · · · · · · · · · · · ·                            | 12 002 -       | 72 004 -      | (88 007)  |
| 7            | (W.F.) (2A/40) - (45)  | 12,902 *       | 72,004 *      | (44,097)  |
| 7.           | Number of Operators  | 1              | 1             | 1 17      |
|              | Full Time Operators Equivalents                                  | 1.09           | 1.19          | 1.13      |
|              |  |                |               |           |
| 3.<br>7.     | Return to Operator Labor & Mgt/Full Time<br>Operator Equivalent  | 11,209         | <b>62,763</b> | (41,967)  |

Table 3 - Enterprise Statement For Whole Farm - 1986

| Iten | <b>15</b>                                   |    | Average<br>280    | High<br>56 | Low<br>56  |
|------|---|----|-------------------|------------|--|
| 1.   | Returns & Net Increases                     |    |                   |            | othic come dente amon undit divin dann come atom pure appe v |
| 2.   | Productive Livestock                        |    |                   |            |  |
| 3.   | Dairy Cows                                  | \$ | 8,933             | 5,026      | 7,401  |
| 4.   | Other Dairy Cattle                          | •  | 2,756             | 877        | 1,893  |
| 5.   | Beef Breeding Cattle                        |    | 1,309             | 523        | 1,946  |
| 6.   | Feeder Cattle                               |    | 8,417             |            | 8,895  |
| 7.   | Hogs, Complete & Mixed                      |    | 28,362            |            | 12,588   |
| 8.   | Hogs Finishing Enterprise                   |    | 10,703            |            | 12,668   |
| 9.   | Producing Weaning Pigs                      |    | 4,954             | •          | 4,751  |
| 0.   | Sheep & Goats                               |    | 685               | 411        | 364  |
| 1.   | Sheep, Feeder Lambs                         |    | 105               | 253        | 307  |
| 2.   | Chickens (Including Hens & Broilers)        |    | 300               | 11         | 1,444  |
| 3.   | Turkeys                                     |    | 300               | **         | 1,777  |
| 4.   | Other Productive Livestock                  |    | 61                |            | 17   |
| 5.   |   | \$ | 66,585 *          | 128,670 *  |  |
| 6.   | Value of Feed Fed to Livestock (Minus)      | -  | •                 | 58,104     | •  |
| 7.   | Return Over Feed From Livestock             |    |                   | 70,566     | •  |
| 8.   | Crop, Seed & Feed                           |    | 57,316            | •          | 22,557   |
|      | Crops + Supplies Purch For Resale (Net)     |    | (362)             | 38         | 44,301   |
| 9.   | Patronage Refunds                           |    | 425               | 268        | (258)  |
| 0.   | Miscellaneous Farm Income                   |    | 4,873             | 7,191      | 596<br>4 073   |
| 1.   |   |    | 324               | 1,164      | 4,072<br>191   |
| 22.  | Total Returns & Net Increases               | \$ | 96 <b>,</b> 795 * | 182,124 *  | 71,459 *   |
| 23.  | Expenses & Net Decreases                    |    | •                 |            |  |
| 24.  | T ! A A ! /                                 | \$ | 3,750             | 4,557      | 4.312  |
| 5.   | Tractors & Crop Machinery                   | -  | 18,443            | 26,036     |  |
| 6.   | Irrigation Equipment                        |    | ,                 | 20,000     | 20,071   |
| 7.   | Electricity                                 |    | 1.780             | 2,798      | 1,742  |
| 8.   | Livestock Equipment                         |    |                   | 5,544      | 2,897  |
| 9.   | Buildings, Fences & Tiling                  |    | 6,772             | •          | 12,168   |
| 0.   | Bare Land                                   |    | 2,749             | (6,071)    | 19,204   |
| 1.   | Miscellaneous Livestock Expense             |    | 3,296             | 5,636      | 2,815  |
| 2.   | Labor-Paid, Unpaid, (Excl Custom Work labo  | r) | 2,504             | 231        | 4,332  |
| ₹.   | Labor Charge for Other Operator(s)          | -  | 218               | 306        | 171  |
| 4.   | Property Tax                                |    | 3,033             | 4,046      | 2,753  |
| 5.   | General Farm Expense                        |    | 2,595             | 4,100      | 2,733  |
| 5A.  | Telephone Expense                           |    | 368               | 415        | 351  |
| 6.   | Interest on Farm Capital (7% Chg)           |    | 35,335            | 52,172     | 39,089   |
| 7.   | Total Expenses & Net Decreases              | \$ | 83,890 *          | 110,121 *  | 115,553 *  |
| 8.   | Return to Operator & Mgt. (Single Operator) | \$ | 12,905            | 72,003     | (44,094)   |
| 9.   | Number of Farm Operators                    |    | 1                 | 1          | 1  |
| 0.   | Full Time Operators Equivalents             |    | 1.09              | 1.19       | 1.13   |
|      | Rtrn to Opr Labor & Mgt/Full Time Opr.      |    |                   | +/         |  |

Table 3 combines Table 1, 2A & 3. Cash receipts and expenses are adjusted for changes in inventory for each enterprise and for each cagegory of expense in order to show net increases and net decreases.

The resulting return to operators labor and management is the same as those on page 6 Line 46.

Table 4 - Household and Personal Expenses - 1986

| tems    |                                    |       | Average of<br>204 FARMS | Per Adult<br>Equivalent |
|---------|------------------------------------|-------|-------------------------|-------------------------|
| 1. Numb | er of Persons - Family             |       | 4                       |                         |
| 2. Numb | er of Adult Equivalent - Family    |       | 3.0                     |                         |
| 3. Ch   | urch & Welfare                     | \$    | 877                     | 292.33                  |
| -       | dical Care & Health Insurance      |       | 2,273                   | 757.67                  |
|         | od & Meals Bought                  |       | 4,181                   | 1393.67                 |
|         | erating Expense & Supplies         |       | 1,880                   | 626.67                  |
| •       | rnishings & Equipment              |       | 1,073                   | 357.67                  |
|         | othing & Clothing Materials        |       | 1,150                   | 383.33                  |
|         | rsonal Care & Spending             |       | 1,550                   | 516.67                  |
|         | ucation                            |       | 367                     | 122.33                  |
|         | creation                           |       | 743                     | 247.67                  |
|         | fts & Special Events               |       | 746                     | 248.67                  |
|         | rsonal Interest                    |       | 95                      | 31.67                   |
|         | rsonal Share Truck & Auto Expense  |       | 952                     | 317.33                  |
|         | erator Share Upkeep on Dwelling    |       | 296                     | 98.67                   |
|         | sh Rent (Personal)                 | ·     | 11                      | 3.67                    |
| .5. Pe  | rsonal Share Telephone & Elec. Exp |       | 650                     | 216.67                  |
|         | rsonal Share - General Farm Expens |       | 32                      | 10.67                   |
| 6.      | Total Cash Living Expense          | \$    | 16,876                  | 5,625.36 *              |
| .7. Pe  | rsonal Share New Truck & Auto      |       | 726                     | 242.00                  |
| lB. Ne  | w Dwelling Bought                  |       | 20                      | 6.67                    |
| 19. Ta  | xes & Other Deductions             |       | 1,213                   | 404.33                  |
| 20. Li  | fe Insurance                       |       | 973                     | 324.33                  |
| 21.     | Total Household & Personal         | \$    | 19,808                  | 6,602.67 *              |
| 22.     | Total Family Living                |       | 314                     | 104.67                  |
| 23.     | Total Cash & Non-Cash Expenses     | \$    | 20,122                  | 6,707.33 *              |
| 23A. Pa | id on Personal Debt                |       | 94                      | 31.33                   |
| 3B. Sa  | vings + Investments (Excl. Life In | s)    | 1,261                   | 420.33                  |
| :3C.    | Total Cash/Noncash Funds for Pers. | Use\$ | 21,476                  |                         |
|         | Family Living From The             | Farm  |                         |                         |
|         |                                    |       |                         | Operator                |
|         |                                    |       | Quantity                | Share                   |
| 6. Milk | & Cream (Quarts)                   |       | 82                      | 20                      |
|         | + Buffalo (Pounds)                 |       | 325                     | 215                     |
|         | (Pounds)                           |       | 161                     | 72                      |
|         | , Mutton, Goat (Pounds)            |       | 3                       | 2                       |
|         | try, All Fowl (Pounds)             |       | 3                       | 2                       |
|         | tables,Fruits & Other Prod. + Fuel |       | · <i>i</i>              | <b>i</b>                |
| 33.     | Total Family Living From the Farm  |       |                         | \$ 312 *                |

Household and personal accounts are important if the family is to manage their financial affairs wisely. The household and personal expenses and receipts are presented in Table 4. \*These families spent an average of \$1,406 per month for cash living expense (line 16) and a total of \$1,650 per month for total personal and household expense (Line 21).

<sup>\*\*</sup>Table 4 includes 204 farm families who kept complete household and personal records.

Table 5 - Statement of Financial Position - 1986 For Those Operators With a Complete Record of Assets & Liabilities

| Item       |  |             | Average 280     |     |         |  |  |
|------------|--|-------------|-----------------|-----|---------|--|--|
|            |  |             | Jan. i          |     | Dec. 31 |  |  |
| 1.         | Total Productive Livestock   | \$          | 34,044          |     | 38,602  |  |  |
| 2.         | Crop, Seed & Feed  | -           | 46,801          |     | 45,486  |  |  |
| 3.         | Total Power, Machinery & Equipment   |             | 34,245          |     | 33,173  |  |  |
| 4.         | Bare Land  |             | 110,410         |     | 108,710 |  |  |
| 5.         | Buildings, Fences, Etc.  |             | 32,010          |     | 29,853  |  |  |
| 6.         | Total Farm Capital   | \$          | 257,510         | *   | 255,824 |  |  |
| 7.         |  |             | 23,009          |     | 26,949  |  |  |
|            | Cash On Hand & In Bank   |             | 6,872           |     | 9,096   |  |  |
|            | Non Farm Real Estate   |             | 1,954           |     | 1,975   |  |  |
| 8.         | Dwelling   |             | 16,507          |     | 16,942  |  |  |
| 9.         | Total Assets   | \$          | 305,852         |     | 310,786 |  |  |
| .0.        | Real Estate Mortgages  |             | 93,514          |     | 90,074  |  |  |
| 1.         | Chattel Mortgages  |             | 60,592          |     | 57,242  |  |  |
| 2.         | Notes  |             | 19,311          |     | 18,272  |  |  |
| 3.         | Accounts Payable   |             | 1,987           |     | 1,722   |  |  |
| 4.         | Total Liabilities  | \$          | 175,404         |     | 167,310 |  |  |
| 5.         | Farmers Net Worth  | \$          | 130,448         |     | 143,476 |  |  |
| 6.         | Gain (or Loss) in Net Worth  | •           | 100,110         | \$  | 13,028  |  |  |
|            |  |             |                 | . • | 10,028  |  |  |
|            | * * * * *  | 봙           | •               |     |         |  |  |
| 7.         | Supplementary Management Information   | •           |                 | V., |         |  |  |
| 8.         | Return to Operators Labor & Mgmt. (6B/47)  | \$          | 12,565          |     |         |  |  |
| 9.         | Return to Capital & Family Labor (66/48)   | ~           | 17,425          |     | •       |  |  |
| 0.         | Non-Farm Income  |             | 17,420          |     |         |  |  |
| 1.         | Outside Investment Income  |             | 1,163           |     |         |  |  |
| 2.         | Other Personal Income & Income Tax Refund  |             | 9,983           |     |         |  |  |
| 2A.        | Sale of (P.S.) Dwelling, Auto & Truck  |             | 26              |     |         |  |  |
| 3.         | Total Non-Farm Income  | \$          | 11,172          |     |         |  |  |
| 4.         | Total Family Farm & Non-Farm Income  | \$          | - ·             |     |         |  |  |
|            | Total Money Borrowed (Business + Personal)                                       | *           | 28,597          |     |         |  |  |
| 6.         | Total Paid on Debt (Principal-Business Only)                                     |             | 74,376          |     |         |  |  |
|            | Total Cash/Noncash Expense/Pers. Use (4/23C)                                     |             | 82,195          |     |         |  |  |
|            | Ratio:Total Farm-Expenses To Receipts (0.S.)                                     |             | 20,003<br>0.924 |     |         |  |  |
|            |  |             |                 |     |         |  |  |
| <b>7.</b>  | Ratio: Total-Assets to Liabilities   |             | Jan. 1          | 2.5 | Dec. 31 |  |  |
|            | Ratio: Non-Real Estate-Assets to Liab.   |             | 1.744           |     | 1.858   |  |  |
|            | Ratio: Real Estate-Assets to Liab.   |             | 1.770           |     | 1.985   |  |  |
|            |  |             | 1.720           |     | 1.748   |  |  |
|            | Ratio: Net Worth to Total Liabilities  |             | 0.744           |     | 0.858   |  |  |
|            | Ratio: Cash Oper. Exp to adj Total Farm Sales                                    | <b>;</b> (( | J.S.)           |     | 0.780   |  |  |
|            | Ratio: Total Farm Recpts to Ave Farm Capital                                     | (W.         | F.)             |     | 0.346   |  |  |
| J. 1       | Ratio: Total Farm Recpts to Ave Farm Capital                                     | (0.         | S.)             |     | 0.640   |  |  |
|            | Inventoried Value of Farm Per Owned Acre   |             |                 |     | 1,375   |  |  |
| 7.<br>3. ) | Inventoried Value of Farm Per Tillable Acre<br>Debt (All Sources) Per Acre Owned |             |                 |     | 1,555   |  |  |
|            | CODE (All Vallages) Des Asses 6  |             |                 |     | 1,479   |  |  |

Table 5 - Statement of Financial Position - 1986
For Those Operators With a Complete Record of Assets & Liabilities

| Iten      | 85   |      | 56 High Pr     | ofit Farms |           | 56 Low Profit Farms |    |                |  |  |
|-----------|--|------|----------------|------------|-----------|---------------------|----|----------------|--|--|
|           |  |      | Jan. 1         | Dec. 31    |           | Jan. 1              |    | Dec. 31        |  |  |
| 1.        | Total Productive Livestock                     | \$   | 50,135         | 63,105     | \$        | 29,024              |    | 27,874         |  |  |
|           | Crop, Seed & Feed                              |      | 55,525         | 64,845     |           | 59,284              |    | <b>47,99</b> 9 |  |  |
| 3.        | Total Power, Machinery & Equipment             |      | 33,452         | 37,801     |           | 38,245              |    | 35,231         |  |  |
| 4.        | Bare Land                                      |      | 101,336        | 111,880    |           | 172,484             |    | 156,795        |  |  |
| 5.        | Buildings, Fences, Etc.                        |      | 43,322         | 42,097     |           | 35,518              | ,  | 31,020         |  |  |
| <b>5.</b> | Total Farm Capital                             | \$   | 283,770        | 319,728    | * \$      | 334,555             |    | 298,919 *      |  |  |
|           | Non-Farm Assets                                |      | 22,364         | 28,195     | - 4       | 27,547              |    | 31,954         |  |  |
|           | Cash On Hand & In Bank                         |      | 4,339          | 5,994      |           | 8,239               |    | 13,343         |  |  |
| В.        | Non Farm Real Estate                           |      | 1,251          | 1,425      |           | 2,873               |    | 2,721          |  |  |
| 3.        | Dwelling                                       |      | 15,100         | 15,410     |           | 16,296              |    | 18,818         |  |  |
| 7.        | Total Assets                                   | \$   | 326,824        | 370,752    | ¥ \$      | 389,510             |    | 365,755 *      |  |  |
|           | Real Estate Mortgages                          |      | 100,558        | 95,216     |           | 111,575             |    | 111,804        |  |  |
|           | Chattel Mortgages                              |      | 83,814         | 81,465     |           | 50,964              |    | 47,155         |  |  |
|           | Notes  |      | 23,179         | 20,883     |           | 30,405              |    | 29, 151        |  |  |
|           | Accounts Payable                               |      | 1,382          | 1,554      |           | 2,772               |    | 2,653          |  |  |
| ١.        | Total Liabilities                              | \$   | 208,933        | 199,118    | * \$      | 195,716             |    | 190,763 *      |  |  |
|           | Farmers Net Worth                              | \$   | 117,891        | 171,634    | <b>\$</b> | 193,794             | _  | 174,992 *      |  |  |
| •         | Gain (or Loss) in Net Worth                    |      |                | \$ 53,743  | ¥         |                     | \$ | (18,802)*      |  |  |
| _         | * * * * *                                      |      | * * * *        | * *        | * *       | * * * *             |    |                |  |  |
|           | Supplementary Management Information           |      |                |            |           |                     |    |                |  |  |
|           | Return to Operators Labor & Mgmt. (68/47)      |      | 60,032         |            |           | (37,804)            |    |                |  |  |
|           | Return to Capital & Family Labor (6B/48)       |      | <b>63, 299</b> |            |           | (26,879)            |    |                |  |  |
| ),        | Non-Farm Income                                |      |                |            |           |                     |    |                |  |  |
|           | Outside Investment Income                      |      | 1,114          |            |           | 2,315               |    |                |  |  |
|           | Other Personal Income & Income Tax Refund      |      | 7,916          |            |           | 17,672              |    |                |  |  |
|           | Sale of (P.S.) Dwelling, Auto & Truck          |      | 18             |            |           |                     |    |                |  |  |
| 5.        | Total Non-Farm Income                          |      | 9,049          |            |           | 19,987              |    |                |  |  |
| •         | Total Family Farm & Non-Farm Income            |      | 72,348         |            |           | (6,892)             |    |                |  |  |
|           | Total Money Borrowed (Business + Personal)     |      | 112,312        |            |           | 77,885              |    |                |  |  |
|           | Total Paid on Debt (Principal-Business Only)   |      | 121,977        |            |           | 82,718              |    |                |  |  |
|           | Total Cash/Noncash Expense/Pers. Use (4/23C)   |      | 24,290         |            |           | 19,182              |    |                |  |  |
| •         | Ratio:Total Farm-Expenses To Receipts (0.S.)   |      | 0.776          |            |           | 1.271               |    |                |  |  |
|           |  |      | Jan. 1         | Dec. 31    |           | Jan. 1              |    | Dec. 31        |  |  |
|           | Ratio: Total-Assets to Liabilities             |      | 1.564          | 1.B62      |           | 1.990               |    | 1.917          |  |  |
|           | Ratio: Non-Real Estate-Assets to Liab.         |      | 1.530          | 1.924      |           | 1.929               |    | 1.981          |  |  |
|           | Ratio: Real Estate-Assets to Liab.             |      | 1.601          | 1.794      |           | 2.036               |    | 1.873          |  |  |
|           | Ratio: Net Worth to Total Liabilities          |      | 0.564          | 0.862      |           | 0.990               |    | 0.917          |  |  |
|           | *Ratio: Cash Oper. Exp to adj Total Farm Sales |      |                | 0.759      |           | ,                   |    | 0.802          |  |  |
|           | Ratio: Total Farm Recpts to Ave Farm Capital   |      |                | 0.439      |           |                     |    | 0.261          |  |  |
|           | Ratio: Total Farm Recpts to Ave Farm Capital   | (0.  | S.)            | 0.887      |           |                     |    | 0.440          |  |  |
|           | Inventoried Value of Farm Per Owned Acre       |      |                | 1,375      |           | •                   | ٠. | 1,631          |  |  |
| •         | Inventoried Value of Farm Per Tillable Acre    |      |                | 1,479      |           |                     |    | 1,960          |  |  |
| j.,       | Debt (All Sources) Per Acre Owned              |      |                | 1,616      |           |                     |    | 1,506          |  |  |
|           | *Adjusted Farm Sales Does Not Include Sale of  | F Ca | pital Assets   | . •        |           |                     |    | •              |  |  |

The Net Worth statement presents a picture of the financial structure of the operator's share of the farm business at the beginning and end of the year. The gain or loss in net worth is a dollar measure of progress. This statement accurately kept, over a period of years is one of the best measures of financial progress.

The supplementary information listed in table 5 is helpful in studying the financial structure of the farm.

<sup>\*</sup>The ratio of total farm expense to total farm receipts (line 28) is a way of expressing the so-called margin. It answers the question, "How many dollars does it cost me to take in \$100"?

<sup>\*\*</sup>The ratio of assets to liabilities (line 29) indicates the degree of solvency at the beginning and end of the year.
This ratio is often referred to as the "Net Capital Ratio". It answers the question: "How many dollars of total

Table 6A - Operator's Share of Cash Receipts - 1986

| Item:      | 5   |    | Average<br>280   | High<br>56   | Low<br>56   |
|------------|---|----|------------------|--------------|-------------|
|            |   |    |                  |              |             |
| 1.         | Sale of Livestock & Livestock Products                          |    |                  |              |             |
| 2.         | Dairy Cows  | \$ | 980              | 514          | 1,130       |
| 3.         | Dairy Products  |    | 9,254            | 7,035        | 6,582       |
| 4.         | Other Dairy Cattle  |    | 933              | 411          | 468         |
| 5.         | Beef Breeding Cattle  |    | 803              | 437          | 1,284       |
| 6.         | Beef Feeder Cattle  |    | 18,252           | 27,852       | 14,303      |
| 7.         | Hogs Complete & Mixed   |    | 26,543           | 57,506       | 16,483      |
| 8.         | Hogs Finishing  |    | 16,286           | 35,699       | 10,723      |
| 9.         | Hogs Producing Weaning Pigs                                     |    | 2,785            | 4,221        | 2,097       |
| 0.         | Sheep, Goats & Wool, Farm Flock                                 |    | 661              | 858          | 130         |
| 1.         | Sheep & Wool, Feeder Lambs                                      |    | 195              |              |             |
| 2.         | Chickens (Including Hens & Broilers)                            | ٠  | 10               |              |             |
| 3.         | Turkeys   |    | ~~               |              | 4 017       |
| 4.         | Eggs  |    | 370              |              | 1,813       |
| 5.         | Other Productive Livestock                                      |    | 9                |              | 17          |
| 6.         | Other Miscellaneous Livestock Income                            |    | 145              | 474 E77 v    | 131         |
| 7.         | Total Sales of Productive Livestock                             | \$ | 77,226 *         | 134,533 *    | 55,161 *    |
| 8.         | Sale of Crops   |    |                  |              | 740         |
| 9.         | Wheat   |    | 995              | 1,520        | 710         |
| 0.         | Other Small Grains  |    | 238              | 108          | 217         |
| 1.         | Corn  |    | 23,709           | 35,999       | 21,471      |
| 2.         | Soybeans  |    | 23,185           | 27,917       | 26,395      |
| 2A.        |   |    |                  |              |             |
| 23.        | Other Row Crops   |    | 2,440            | 6,751        | 39          |
| 4.         | Legumes & Other Forage  |    | 424              | 3 <b>4</b> 9 | 861         |
| 25.        | Grass Seed  |    |                  |              | •           |
| 26.        | Fruit & Nuts  |    |                  |              |             |
| 27.        | Vegetable Roadside Market & Specialty                           |    |                  |              |             |
| 28.        | Nursery, Timber & Other   |    | 333              | 723          | <b>62</b> 3 |
| 9.<br>9A.  | Set Aside Acres-Government Payments Pik Acres                   |    | 11,069           | 15,287       | 12,334      |
| 29B.       | Sale of Crops+Supplies Purch for Resale                         |    | 1,903            | 1,027        | 867         |
| 50.        | Total Sales From Crops + Supplies                               | \$ |                  | 89,681 *     | 63,517 *    |
| 51.        | Cap. Assets Sold (Auto/Trk/Mach.)                               |    | 375              | 505          | 261         |
|            | Cap. Assets Sold (Bldgs & Improvements)                         |    | 203              | 303          | 201         |
|            | Cap. Assets Sold (Land)   |    |                  | 1,351        | 1,157       |
| ii.<br>2.  | · · · · · · · · · · · · · · · · · · ·                           |    | 1,012            | 1,001        | 1,107       |
| 53.        |   |    | 2 666            | 2,089        | 7,716       |
|            |   |    |                  | 1,415        | 319         |
| 54.<br>55. | <u>-</u>  |    | 422              | 405          | 529         |
| 56.        | <del>-</del>  |    |                  | 6,188        |             |
| 57.        | Total Farm Sales  | \$ |                  | 236,167 *    |             |
| .0         | Inchese in Earn Capital   |    | •                | 36,539       |             |
| 18.<br>10  | Increase in Farm Capital  |    | 287              | 360          | 187         |
| 39.<br>10. | Family Living From the Farm  Total Farm Receipts (37)+(38)+(39) | \$ | 287<br>152,439 * |              |             |
|            |   |    | 1/10 0/0         | 27A 711      | 177 800     |
| <b>41.</b> | Adjusted Total Farm Sales (37) - (31)                           | ø  | •                | 234,311      | -           |
| 12.        | · · · · · · · · · · · · · · · · · · ·                           |    | •                | 179,965      | •           |
| <b>13.</b> | Net Cash Operating Income                                       | \$ | 32,659 *         | 54,345 *     | 27,306 *    |

Table 6A is derived the same way as Table 2A with the exception that landlord's share of the farm business is not included. For the owner-operator, Table 2A and 6A are the same.

Table 6B - Operator's Share of Cash Expenses - 1986

| Item       | ns  |      | Average<br>280   | High<br>56                            | Low<br>56  |
|------------|---|------|--|---------------------------------------|--|
| 1.         | Purchase of Livestock                     |      | n teles read about teleft father beam weeks stock stocks dame. | · · · · · · · · · · · · · · · · · · · | 7  |
| 2.         | Dairy Cows                                | \$   | 185  | 4                                     | 56   |
| 3.         | Other Dairy Cattle                        | •    | 260  | 57                                    | 28   |
| 4.         | Beef Breeding Cattle                      |      | 248  | 18,506                                | 354  |
| 5.         | Beef Feeder Cattle                        |      | 10,507   | 3,723                                 | 5,935  |
| 6.         | Hogs Complete & Mixed                     |      | 1,753  | 6,304                                 | 876  |
| 7.         | Hogs Finishing                            |      | 4,078  | 1,160                                 | 3,637  |
| 8.         | Hogs Producing Weaning Pigs               |      | 621  | 139                                   | 237  |
| 9.         | Sheep & Goats                             |      | 115  | 137                                   | 3  |
| 10.        | Sheep, Feeder Lambs                       |      | 227  |                                       | S <sub>1</sub>   |
| 11.        | Chickens (Including Hens & Broilers)      |      | 7  |                                       |  |
| 12.        | Turkeys                                   |      | ,  | *                                     | 1  |
| 13.        | Other Productive Livestock                |      | 4  |                                       |  |
| 14.        | Miscellaneous Livestock Expense           |      | 1  | F 7/0                                 | O / OF   |
|            | Purch of Crops/Supplies Purch for Resale  |      | 3,233  | 5,268                                 | 2,605  |
| 15.        | Feed Bought                               |      | 2,265  | 1,997                                 | 1,491  |
| 16.        | Fertilizer                                |      | 21,515   | 42,629                                | 13,308   |
| 17.        | Chemicals                                 |      | 6,104  | 8,365                                 | 7,000  |
| 18.        | Other Crop Expense                        |      | 4,506  | 6,288                                 | 4,802  |
| 19.        |   |      | 9,253  | 11,700                                | 11,135   |
| 20.        | Irrigation Operation Expense              |      |  |                                       |  |
| 21.        | Custom Work Ent. Costs, Incl. Labor       |      | 49   | 117                                   | 90   |
| 22.        | Custom Work Hired                         |      | 3,043  | 4,359                                 | 3,247  |
| 23.        | Repair & Upkeep of Livestock Equip.       |      | 1,180  | 1,938                                 | 1,139  |
|            | Repair & Upkeep of Farm Real Estate       |      | 854  | 1,550                                 | 904  |
| 24.        | Gas, Diesel + Lubricants (F S)            |      | 4,286  | 5,725                                 | 4,478  |
| 25.<br>26. | Repair of Mach, Tractor, Truck & Auto     |      | 6,593  | 8,624                                 | 6,755  |
|            | Repair & Upkeep of Irrigation Equip.      |      |  |                                       |  |
| 27.        | Repairs - Custom Work Enterprise          |      | 112  | 249                                   | 39   |
| 28.        | Wages of Hired Labor                      |      | 3,290  | 5,235                                 | 3,788  |
| 29.        | Personal Property & Real Estate Taxes     |      | 1,079  | 1,245                                 | 1,537  |
| 30.        | Cash Rent                                 |      | 13,755   | 19,286                                | 17,110   |
| 31.        | General Farm Expense                      |      | 2,560  | <b>3,69</b> 0                         | 2,386  |
| 32.        | Telephone Expense (Farm Share)            |      | 364  | 408                                   | 387  |
| 33.        | Electricity Expense (Farm Share)          |      | 1,765  | 2,569                                 | 1,594  |
| 34.        | Interest Actually Paid                    |      | 13,495   | 18,831                                | 11,256   |
| 35.        | Total Cash Operating Expense              | \$   | 117,303 *  | 179,966 *                             | 106,178 *  |
| 36.        | Power & Mach. Bought (Farm Share)         |      | 9,012  | 15,888                                | 10,243   |
| 37.        | Irrigation Equipment Bought               |      |  |                                       | te de la companya de |
| 38.        | Custom Work Equipment Bought              |      | 251  | <b>9</b> 7                            | ,  |
| 39.        | Livestock Equipment Bought                |      | 1,029  | 1,423                                 | 285  |
| 40.        | New Real Estate - Buildings/Improvements  |      | 3,640  | 6,221                                 | 5,844  |
| 40A.       |   |      | 1,981  | 5,808                                 | 2,652  |
| 41.        | Total Farm Purchases (33) Thru (38A)      | . \$ | 133,216 *  |                                       | 125,202 *  |
| 42.        | Decrease in Farm Capital                  |      | 1,743  |                                       | 36,190   |
| 43.        | Interest on Farm Capital (7% Chg)         |      | 4,782  | 3,391                                 | 11,383   |
| 44.        | Unpaid Family Labor                       |      | 222  | 281                                   | 152  |
| 45.        | Board Furnished Hired Labor               |      | 6  |                                       | 6  |
| 46.        | Total Farm Expense (41) Thru (45)         | \$   | 139,969 *  | 213,075 *                             | 172,933 *  |
| 47.        | Return to Oper. Labor & Mgmt-Single Opert |      | <del></del>  | ,                                     | 1. 19 100 A  |
|            | (6A/40) - (46)                            | \$   | 12,470 *   | 59,991 *                              | (37,848)*  |
| 48.        | Return to Capital & Family Labor          |      |  |                                       |  |

Return to Capital and Family Labor, Line 48 of this page represents the amount

### THERMOMETER CHART

Using your figures from page 15, locate your standing with respect to the various measures of farm organization and management efficiency. The averages for farms included in this summary are located between the dotted lines across the center of the chart.

| Ret<br>T<br>Lab<br>Mg | o<br>or &    | С   | dex<br>Of<br>rop<br>eld | Pe  | urn | Re<br>Per | · \$ | rn  <br>100 |          |     | ork<br>nits | Work<br>Unit<br>Per<br>Work | 5 | Equ<br>Exp | ld &<br>ip<br>ense<br>W.U. |
|-----------------------|--------------|-----|-------------------------|-----|-----|-----------|------|-------------|----------|-----|-------------|-----------------------------|---|------------|----------------------------|
| 125,000               |              | 124 |                         | 230 |     | 132       | _    | 38          |          | 830 |             | 485                         |   | 0          | _                          |
| 110,000               |              | 121 |                         | 225 | 4   | 128       | _    | 36          |          | 780 |             | 468                         | _ | 10         | _                          |
| 95,000                | <b> -</b>    | 118 | _                       | 220 | _   | 124       | _    | 34          |          | 730 |             | 445                         | - | 20         | _                          |
| во,000                | $\vdash$     | 115 | _                       | 215 | _   | 120       | -    | 32          |          | 680 |             | 425                         |   | 30         | -                          |
| <b>65,</b> 000        | $\vdash$     | 112 | _                       | 210 |     | 116       | _    | 30          | _        | 630 |             | 405                         | - | 40         |                            |
| 50,000                | -            | 109 | _                       | 205 |     | 112       |      | 28          |          | 580 |             | 385                         | _ | 50         | _                          |
| 35,000                |              | 106 | _                       | 200 |     | 108       |      | 26          | -        | 530 | _           | 365                         | 4 | 60         |                            |
| 20,000                |              | 103 | _                       | 195 |     | 104       |      | 24          | -        | 480 |             | 345                         | - | 70         |                            |
| 12,907                |              | 100 | 4-                      | 190 |     | 100       |      | 55          | F        | 425 |             | 325                         |   | 80         |                            |
| -10,000               | H            | 97  |                         | 185 |     | 96        | _    | 20          | -        | 380 | _           | 305                         |   | 90         |                            |
| -25,000               | -            | 94  |                         | 180 | _   | 92        |      | 18          | $\vdash$ | 330 |             | 285                         | 4 | 100        |                            |
| -40,000               | $\vdash$     | 91  |                         | 175 | _   | 88        |      | 16          | _        | 280 |             | 265                         | _ | 110        |                            |
| -55,000               | H            | 88  |                         | 170 | _   | 84        |      | 14          |          | 230 |             | 245                         | - | 120        |                            |
| -70,000               | $\mathbb{H}$ | 85  |                         | 165 | _   | во        |      | 12          | _        | 180 |             | 225                         | _ | 130        |                            |
| -85,000               | -            | 82  |                         | 160 | _   | 76        |      | 10          | -        | 130 |             | 205                         | 4 | 140        |                            |
|                       |              | L   |                         |     |     |           |      |             |          | ]   |             |                             |   | Į          |                            |

#### MEASURES OF FARM ORGANIZATION AND MANAGEMENT EFFICIENCY

The following explanations and definitions are for use in interpreting Table 8 and the Thermometer Chart on page 13.

- RET TO LABOR & MGT A measure of the relative financial return for the operator's labor taking into account all income and expense, cash and non-cash, including a charge for the use of farm capital. This is based on the whole farm business and is found in Table 2 and Table 3.
- 2. CROP YIELD INDEX A measure of the crop yield level for all crops produced expressed as a percentage of the average.
- 3. PERCENT OF TILLABLE LAND IN HIGH RETURN CROPS A measure of crop selection based on a rating of individual crops. Crop ratings take into account such things as dollar return, effect on soil, TDN yield, labor required, etc. Ratings can be found on Table 9.
- 4. GROSS RETURN PER ACRE An additional measure of crop selection based on total production times an average price for the crops.
- 5. RETURN PER \$100 FEED FED TO PRODUCTIVE LIVESTOCK -Measures the general level of efficiency for all livestock. It is expressed as a percentage of the average and combines the individual livestock indexes into one figure.
- LIVESTOCK UNITS PER 100 ACRES A measure of livestock density or population. Unit values are assigned to the various classes of livestock.
- 7. SIZE OF BUSINESS WORK UNITS A measure of the total work load. A work unit represents the average accomplishment of a worker in one 10 hour day. Work Unit values are assigned to each class of livestock, each crop, and to other tasks utilizing farm labor.
- 8. WORK UNITS PER WORKER MEASURES LABOR EFFICIENCY It is the total work units divided by the number of workers including the operator, hired labor, and family labor.
- 9. POWER, MACHINERY, EQUIPMENT AND BUILDING EXPENSE PER WORK UNIT A measure of expense control. It is the total cost of items listed in Table 3 divided by the number of work units.
- 10. FARM CAPITAL INVESTMENT PER WORKER Indicates size of business.
  Useful in comparing a farm business to other industries or businesses.

Other items listed on Table 8 are related to the above measures and serve to further define and describe the efficiency level of a farm business.

Note should be taken that items listed in Table 8 and the Thermometer Chart are to be considered in light of the individual farm and farm operator. Although in general, an above-average level for each factor listed would indicate above average earnings, this may not be true when individual farms are considered. The inter-relationship of factors varies from farm to farm.

Table 8 - Measures of Farm Organization and Management Efficiency - 1986

| Item         | s<br>   |    | Average<br>280   | High<br>56               | Low<br>56 |
|--------------|---|----|------------------|--------------------------|-----------|
| 1.           | Return to Operators Labor & Management  | \$ | 12,907           | 72,001                   | (44,096)  |
| 2.           | Crop Yield Index  |    | 100.0            | 111.6                    | 97.1      |
| 3.           | % Tillable Land in High Return Crops  |    | 95.4             | 97.5                     | 96.2      |
| 4.           | Gross Return per Tillable Acre  | \$ |                  | 190.41                   | 165.65    |
| 5.           | Return per \$100 Feed Fed Productive  |    |                  |                          |           |
|              | Livestock Index   |    | 100.0            | 104.3                    | 91.8      |
| 6.           | *Livestock Units per 100 Acres  |    | 21.65            | 28.31                    | 17.4      |
| 7.           | Size of Business - Work Units   |    | 426.94           | 759.25                   | 369.89    |
| 8.           | Work Units per Worker   |    | 323.44           | 496.24                   | 260.49    |
| 9.           | Power, Machinery, Equipment, Building   |    |                  |                          |           |
|              | Expense per Work Unit   | \$ | 79.23            | 64.93                    | 120.69    |
| 10.          | Farm Capital Investment per Worker  | \$ | 382,415          | <b>4</b> 87, <b>1</b> 30 | 393,252   |
| ***          | **************  | ** | <del>*****</del> | ******                   | *****     |
| 30.          | Number of Animal Units  |    | 90.37            | 170.23                   | 73.6      |
| 31.          | Work Units  |    |                  |                          |           |
| 32.          | Crops   |    | 200.15           | 292.96                   | 198.37    |
| 33.          | Productive Livestock  |    | 182.47           | 308.79                   | 149.49    |
| 34.          | Other Productive Livestock  |    | 44.32            | 157.49                   | 22.02     |
| 35.          | Expenses Per Work Unit  |    |                  |                          |           |
| 36.          | Tractor & Crop Machinery Expenses   | \$ |                  | 34.30                    | 63.42     |
| 37.          | Farm Share of Auto & Truck  | \$ | 8.79             | 6.00                     | 11.69     |
| 38.          | Farm Share of Electric Expense  | \$ | 4.17             | 3.69                     | 4.72      |
| 39.          | Livestock Equipment Expense   | \$ | 7.14             | 7.30                     | 7.85      |
| 40.          | Building, Fence & Tiling Expense  | \$ | 15.88            | 13.64                    | 32.99     |
| 40A.<br>40B. | Other exp/Work Units (Inc. Custom Ent) General Farm Telephone/Other Utilities       |    |                  |                          |           |
|              | Except Electricity  | \$ | 6.94             | <b>5.</b> 95             | 7.24      |
| 40C.         | Hired Labor   | \$ | 7.73             | 7.22                     | 11.91     |
| 41.*         | <ul> <li>* Tractor &amp; Crop Machinery Expense per<br/>Crop Acre</li> </ul>        | \$ | 44.24            | 43.30                    | 55.39     |
| <b>42.</b>   | Farm Power & Machinery Cost Allocation<br>To Livestock                              | \$ | 1,973.43         | 3,082.10                 | 1,772.61  |
| <b>4</b> 3.  | Bldg.,Fence & Tiling Cost Allocated to Crops BCAF (5)                               | \$ | 3,774.11         | 4,379.37                 | B,680.93  |
| 44.<br>45.   | *Acres Include All Tillable Land, Non-T<br>**Acres Include all Tillable Land Plus A |    | •                |                          |           |

<sup>\*\*</sup>Acres Include all Tillable Land Plus Acres in Non-Tillable Hay

TABLE 9 - CROP DATA FOR MAJOR CROPS, DISTRIBUTION OF ACRES & YIELDS - 1986

# ACRES

| verage<br>280<br>Farms | 56 Most<br>Profitabl<br>Farms |             |
|------------------------|-------------------------------|-------------|
| 20.7 *                 | 17.7                          | * 20.4      |
| 33.8 *                 | 509.0                         | * 335.5     |
| 13.8 *                 | 9.9                           | * 20.4      |
| 1.1 *                  | 1.6                           | * 0.4       |
| 9.6 *                  | 10.5                          |             |
| 0.1 *                  |                               | * 0.3       |
| 36.5 *                 | 52.2                          | * 36.0      |
| 115.6 *                | 600.9                         | * 421.8     |
| 1.7 *                  | 0.4                           | * 1.2       |
| 2.3                    | 0.3                           | 4.7         |
| 13.5                   | 9.0                           | 16.4        |
| 10.4                   | 12.7                          | 9.9         |
| 9.8                    | 9.6                           | 11.4        |
| 36.0 *                 | 31.6                          | * 42.4      |
| 37.7 *                 | 32.0                          | * 43.6      |
|                        | 632.9                         |             |
|                        |                               | 37.7 * 32.0 |

# SUPPLEMENTARY MANAGEMENT INFORMATION

|                                       | 280<br>Average<br>All Farms | 56<br>High Earnings<br>Farms | 56<br>Low Earnings<br>Farms |
|---------------------------------------|-----------------------------|------------------------------|-----------------------------|
| Percent Land Tillable                 | 91.7                        | 94.9                         | 90.6                        |
| Percent land in High Return Crops     | 95.4                        | 97.5                         | 96.2                        |
| *Fertilizer Cost per Acre             | 16.24                       | 18.00                        | 16.03                       |
| *Crop Chemicals per Acre              | 12.46                       | 13.44                        | 12.90                       |
| *Seed and Other Costs per Acre        | 23.52                       | 25.28                        | 22.32                       |
| *Gas,Diesel + Lubricants per Acre     | 12.37                       | 12.37                        | 11.92                       |
| *Repair and Maintenance Cost per Acre | 17.63                       | 16.82                        | 18.31                       |

\* Tillable land minus tillable pasture, fallow and idle land.

\*

| Υ   | I | Ε   | L  | D | S |  |
|-----|---|-----|----|---|---|--|
| - 1 | ٠ | ٠., | ₩. | w | u |  |

|              | Number              | and the second s |                | 20%           | 20%          |
|--------------|---------------------|--|----------------|---------------|--------------|
|              | of Farms<br>Growing | Crop<br>Rank   | All<br>Growers | High<br>Yield | Low<br>Yield |
| <br>Corn     | 280                 | A  | 126.0          | 153.3         | 91.6         |
| Soybeans     | 280                 | A  | 35.7           | 46.9          | 23.3         |
| Alfalfa Hay  | 138                 | Α  | 4.2            | 6.7           | 1.7          |
| Corn Silage  | 71                  | В  | 14.9           | 21.6          | 8.9          |
| Spring Wheat | 90                  | В  | 37.8           | 50.2          | 26.3         |
| Oats         | 106                 | D <sup>'</sup>   | 56.7           | 83.2          | 38.1         |

Table 10 - Crop Data For Oats, Feed - 1986

|      |   |    | Average<br>106 |            | High<br>21     |   | Low<br>21                               |
|------|---|----|----------------|------------|----------------|---|---|
| 1.   | Acres                                   |    | 19.3           |            | 21.2           |   |   |
|      |   |    | Per Acre       |            |                |   | 16.2<br>Per Acre                        |
| 2.   | Yield                                   |    | 56.7           |            | 83.2           |   | 38.1                                    |
| 3.   | Value Per Froduction Unit               |    | 0.92           |            | 1.02           | - | 0.83                                    |
| 4.   | Crop Product Return                     | \$ | 52.18          |            | 84.88          |   | 31.60                                   |
| 5.   | Other Crop Income**                     | •  | 34.72          |            | 49.91          |   | 16.60                                   |
| 6.   | Total Crop Return                       | \$ | 86.90          |            | 134.79         |   | 48.20 *                                 |
| 7.   | Direct Costs                            |    | ,              |            |                |   | 10120 ^                                 |
| 8.   | Fertilizer                              |    | 7.88           |            | 2.56           |   | 16.23                                   |
| 9.   | Chemicals                               |    | 1.45           |            | 1.53           |   | 1.91                                    |
| 10.  | Seed                                    |    | 7.20           | *          | 5.58           |   | 11.11                                   |
| 10A. | Crop Drying                             |    |                |            |                |   |   |
| 10B. | . Other Expense                         |    | 0.83           |            | 1.63           |   | 0.62                                    |
| 11.  | Special Hired Labor                     |    | 0.26           |            | 0.42           |   | V.02                                    |
| 12.  | Custom Work Hired                       |    | 3.52           |            | 2.42           |   | 3.09                                    |
| 13.  | Irrigation Operation                    |    |                |            | · <del>-</del> |   |   |
| 14.  | Total Direct Costs                      | \$ | 21.14          |            | 14.14          |   | 32.96                                   |
| 15.  | Return Over Direct Costs                | \$ | 65.76 ±        | ¥          | 120.65         | ¥ | 15.24 *                                 |
| 16.  | Allocated Costs (Direct + Fixed)        |    |                |            |                |   |   |
| 17.  |   |    | 13.73          |            | 16.79          |   | 15.11                                   |
| 18.  | Farm Fower + Machinery - Operation      |    | 13.98          |            | 16.08          |   | 11.61                                   |
| 19.  | Irrig. Equip Ownership (Manual Alloc)   |    | 10170          |            | 10.00          |   | 11.01                                   |
| 20.  | Land Costs                              |    | 60.27          |            | 62,90          |   | 63.52                                   |
| 21.  | Miscellaneous Costs                     |    | 0.26           |            |                |   | 1.42                                    |
| 22.  | *Interest on Mach. + Equip. Investment  |    | 3.10           |            | 3.16           |   | 2.69                                    |
| 23.  | Total Allocated Costs                   | \$ | 91.34          |            | 98.93          |   | 94.35                                   |
| 24.  | Return Over All Listed Costs            | \$ | (25.58)+       | ŧ          | 21.72          |   | (79.11)*                                |
| 25.  | Supplementary Management Information    |    |                |            |                |   |   |
| 26.  | Work Units Assigned Per Acre            |    | 0.30           |            | 0.30           |   | 0.30                                    |
| 27.  | Fower Costs Allocation Factor           |    | 1.00           |            | 1.00           |   | 1.00                                    |
| 28.  | Total Listed Cost/Unit of Production    |    | 1.98           |            | 1.36           |   | 3.34                                    |
| 29.  | Return Over Listed Costs Per Unit       |    | (0.45)         |            | 0.26           |   | (2.08)                                  |
| 30.  | Breakeven Yield/Units of Production     |    | 122.26         |            | 110.85         |   | 153.39                                  |
| 30A. | Estimated Total Machine Costs/Acre      |    | 33.16          |            | 37.64          |   | 31.47                                   |
| 31.  | Total Listed Costs Per Acre             | \$ | 112.48 →       | <b>f</b> : | 113.07         | * | 127.31 *                                |
|      | Other Fossible Costs Not Listed         |    |                |            |                |   |   |
| 33.  | Utilities + Other General Farm Expenses |    | 57.00          |            | 38.50          |   | 51.91                                   |
| 33A. | Buildings, Fences + Tiling Costs        |    |                |            |                |   |   |
| 34.  | Interest Allocation                     |    |                |            |                |   | W                                       |
| 35.  | Other Costs Not Listed                  |    |                |            |                |   | *************************************** |
| 36.  | Total Costs                             |    |                |            |                |   |   |
|      |   |    |                |            |                |   |   |

<sup>\*</sup>Does not include interest on investment of irrigation equipment
\*\*Line 5 includes value of crop residue, straw, insurance loss payments
and disaster aid payments.

LINES 13,17,18, + 22 were allocated to this crop by special formula

Table 10 - Crop Data For Spring Wheat, Canning Peas, & Sugarbeets 1986

|  |      | Canning Peas<br>4 Farms                 | Wheat<br>90 Farms | Sugarbeets<br>4 Farms                   |
|--|------|---|-------------------|---|
| 1. Acres                                   |      | 30.0                                    | 38.0              | 217.5                                   |
| B  |      | Per Acre                                | Per Acre          | Per Acre                                |
| 2. Yield                                   |      | 221.4                                   | 37.8              | 14.7                                    |
| 3. Value Per Production Unit               |      | 1.00                                    | 2.48              | 34.22                                   |
| 4. Crop Product Return                     | \$   | 221.40                                  | <b>9</b> 3.79     | 503.47                                  |
| 5. Other Crop Income**                     |      | 1                                       | 10.26             |   |
| 6. Total Crop Return                       | \$   | 221.40 *                                | 104.05 *          | 503.47 *                                |
| 7. Direct Costs                            |      | •                                       |                   |   |
| 8. Fertilizer                              |      | 9.60                                    | 19.50             | 29.69                                   |
| 9. Chemicals                               |      | 3.17                                    | 2.68              | 50.89                                   |
| 10. Seed                                   |      | 33.13                                   | 10.61             | 37.05                                   |
| 10A. Crop Drying                           |      |   |                   |   |
| 10B. Other Expense                         |      | 22.00                                   | 1.64              | 6.15                                    |
| 11. Special Hired Labor                    |      |   | 0.68              | 55.31                                   |
| 12. Custom Work Hired                      |      |   | 2.37              | 31.30                                   |
| 13. Irrigation Operation                   |      | •                                       |                   |   |
| 14. Total Direct Costs                     | \$   | 67.90                                   | 37.48             | 210.39                                  |
| 15. Return Over Direct Costs               | \$   | 153.50 *                                | 66.57 <b>*</b>    | 293,08 *                                |
| 16. Allocated Costs (Direct + Fixed)       |      |   |                   |   |
| 17. Farm Power + Machinery - Ownership     |      | 2.08                                    | 14.58             | 46.14                                   |
| 18. Farm Power + Machinery - Operation     |      | 15.71                                   | 15.38             | <b>98.</b> 20                           |
| 19. Irrig. Equip. Ownership (Manual Alloc) |      |   |                   | 70120                                   |
| 20. Land Costs                             |      | 56.00                                   | 63.97             | 73.50                                   |
| 21. Miscellaneous Costs                    |      |   | 0.26              | 70100                                   |
| 22. *Interest on Mach. + Equip. Investment |      | 0.24                                    | 3.27              | 12.01                                   |
| 23. Total Allocated Costs                  | \$   | 74.03                                   | 97 <b>.4</b> 6    | 229.85                                  |
| 24. Return Over All Listed Costs           | \$   | 79.47 *                                 | (30.89)*          | 63.23 *                                 |
| 25. Supplementary Management Information   |      |   |                   |   |
| 26. Work Units Assigned Per Acre           |      | 0.40                                    | 0.30              | 2.00                                    |
| 27. Power Costs Allocation Factor          |      | 1.00                                    | 1.00              | 1.00                                    |
| 28. Total Listed Cost/Unit of Production   |      | 0.64                                    | 3.57              | 29.92                                   |
| 29. Return Over Listed Costs Per Unit      |      | 0.36                                    | (0.82)            | 4.30                                    |
| 30. Breakeven Yield/Units of Production    |      | 141.93                                  | 54.41             | 12.86                                   |
| 30A. Estimated Total Machine Costs/Acre    |      | 18.03                                   | 34.81             | 177.23                                  |
| 31. Total Listed Costs Per Acre            | \$ . | 141.93 *                                | 134.94 *          | 440.24 *                                |
| 32. Other Possible Costs Not Listed        |      |   |                   |   |
| 33. Utilities +Other General Farm Expenses |      | 64.67                                   | 116.53            | 9,533.00                                |
| 33A. Buildings, Fences + Tiling Costs      |      | -                                       |                   | ,,000:00                                |
| 34. Interest Allocation                    |      |   |                   |   |
| 35. Other Costs Not Listed                 |      | *************************************** | <del></del>       | +···                                    |
| 36. Total Costs                            |      | **************************************  |                   | *************************************** |
|  |      |   | <del></del>       |   |

<sup>\*</sup>Does not include interest on investment of irrigation equipment
\*\*Line 5 includes value of crop residue, straw, insurance loss payments
and disaster aid payments.

Lines 13,17,18, + 22 were allocated to this crop by special formula

Table 10 - Crop Data For Corn For Grain - 1986

|   |     | Average<br>280 |   | High<br>86    |   | Low<br>86 |
|---|-----|----------------|---|---------------|---|-----------|
| 1. Acres                                    | === | 114.7          |   | 125.9         |   | 102.1     |
|   | ı   | er Acre        |   | Per Acre      |   | Per Acre  |
| 2. Yield                                    |     | 126            |   | 153.3         |   | 91.6      |
| 3. Value Per Production Unit                |     | 1.69           |   | 1.72          |   | 1.62      |
| 4. Crop Product Return                      | \$  | 213.01         |   | 263.71        |   | 148.43    |
| 5. Other Crop Income**                      |     | 2.56           |   | 8.00          |   | 1.50      |
| 6. Total Crop Return                        | \$  | 215.57         | * | 271.71        | * | 149.93 *  |
| 7. Direct Costs                             |     |                |   |               |   |           |
| 8. Fertilizer                               |     | 32.41          |   | 33.15         |   | 28.21     |
| 9. Chemicals                                |     | 14.28          |   | 13.65         |   | 18.13     |
| 10. Seed                                    |     | 19.99          |   | 20.71         |   | 18.30     |
| 10A. Crop Drying                            |     | 10.91          |   | 10.19         |   | 10.19     |
| 10B. Other Expense                          |     | 4.18           |   | 3.88          |   | 3.84      |
| 11. Special Hired Labor                     |     | 1.24           |   | 1.95          |   | 0.52      |
| 12. Custom Work Hire                        |     | 2.57           |   | 0.94          |   | 5.08      |
| 13. Irrigation Operation                    |     |                |   |               |   |           |
| 14. Total Direct Costs                      | \$  | <b>85.</b> 58  |   | 84.47         |   | 84.27     |
| 15. Return Over Direct Costs                | \$  | 129.99         | * | 187.24        | * | 65.66 *   |
| 16. Allocated Costs (Direct + Fixed)        |     |                |   |               |   |           |
| 17. Farm Power + Machinery - Ownership      |     | 24.99          |   | 29.03         |   | 27.06     |
| 18. Farm Power + Machinery - Operation      |     | 26.07          |   | 27.00         |   | 25.42     |
| 19. Irrig. Equip Ownership (Manual Alloc)   |     |                |   |               |   |           |
| 20. Land Costs                              |     | 67.21          |   | 77.74         |   | 54.81     |
| 21. Miscellaneous Costs                     |     | 0.17           |   | 0.26          |   | 0.27      |
| 22. *Interest on Mach. + Equip. Investment  |     | 5.40           |   | 4.99          |   | 5.94      |
| 23. Total Allocated Costs                   | \$  | 123.84         |   | 139.02        |   | 113.50    |
| 24. Return Over All Listed Costs            | \$  | 6.15           | * | 48.22         | * | (47.84)*  |
| 25. Supplementary Management Information    |     |                |   |               |   |           |
| 26. Work Units Assigned Per Acre            |     | 0.55           |   | 0 <b>.5</b> 5 |   | 0.55      |
| 27. Power Costs Allocation Factor           |     | 1.00           |   | 1.00          |   | 1.00      |
| 28. Total Listed Cost/Unit of Production    |     | 1.66           |   | 1.46          |   | 2.16      |
| 29. Return Over Listed Costs Per Unit       |     | 0.05           |   | 0.31          |   | (0.52)    |
| 30. Breakeven Yield/Units of Production     |     | 123.92         |   | 129.94        |   | 122.08    |
| 30A. Estimated Total Machine Costs/Acre     |     | 58.17          |   | 61.65         |   | 61.81     |
| 31. Total Listed Costs Per Acre             | \$  | 209.42         | 茶 | 223.49        | ₩ | 197.77 *  |
| 32. Other Possible Costs Not Listed         |     |                |   |               |   |           |
| 33. Utilities + Other General Farm Expenses |     | 815.70         |   | 826.26        |   | 576.40    |
| 33A. Buildings, Fences + Tiling Costs       |     |                |   |               |   |           |
| 34. Interest Allocation                     |     |                | _ |               | _ |           |
| 35. Other Costs Not Listed                  |     |                |   |               |   |           |
| 36. Total Costs                             |     |                |   |               |   |           |

<sup>\*</sup>Does not include interest on investment of irrigation equipment
\*\*Line 5 includes value of crop residue, corn stalks, insurance loss
payments, and disaster aid payments.
LINES 13,17,18, + 22 were allocated to this crop by special formula

Table 10 - Crop Data For Soybeans - 1986

|   | Average<br>280                                   | High<br>84    | Low<br>84                               |
|---|--|---------------|---|
| 1. Acres                                    | <br>120.7  | 122.2         | 103.6                                   |
|   | Per Acre   | Per Acre      | Per Acre                                |
| 2. Yield                                    | 35.7   | 46.9          | 23.3                                    |
| 3. Value Per Production Unit                | 4.43   | 4.52          | 4.32                                    |
| 4. Crop Product Return                      | \$<br>158.11                                     | 211.95        | 100.78                                  |
| 5. Other Crop Income**                      | 3.74   | 3.54          | 4.09                                    |
| 6. Total Crop Return                        | \$<br>161.85 *                                   | 215.49 *      | 104.87 *                                |
| 7. Direct Costs                             |  |               |   |
| 8. Fertilizer                               | 1.26   | 1.57          | 1.39                                    |
| 9. Chemicals                                | 12.37  | 10.47         | 12.64                                   |
| 10. Seed                                    | 8.80   | 7.81          | 8.91                                    |
| 10A. Crop Drying                            |  |               |   |
| 10B. Other Expense                          | <b>6.8</b> 8                                     | 8.72          | 5.25                                    |
| 11. Special Hired Labor                     | 1.61   | 3.31          | 0.87                                    |
| 12. Custom Work Hired                       | 1.52   | 0.62          | 1.94                                    |
| 13. Irrigation Operation                    |  |               |   |
| 14. Total Direct Costs                      | \$<br>32.44                                      | 32.50         | 31.00                                   |
| 15. Return Over Direct Costs                | \$<br>129.41 *                                   | 182.99 *      | 73.87 *                                 |
| 16. Allocated Costs (Direct + Fixed)        |  |               |   |
| 17. Farm Fower + Machinery - Ownership      | 20.36  | 28.15         | 15.90                                   |
| 18. Farm Power + Machinery - Operation      | 21.40  | 20.88         | 20.48                                   |
| 19. Irrig. Equip Ownership (Manual Alloc)   |  |               |   |
| 20. Land Costs                              | 66.86  | 79.51         | 55.02                                   |
| 21. Miscellaneous Costs                     | 0.21   | 0.46          | 0.17                                    |
| 22. *Interest on Mach. + Equip. Investment  | 4.35   | 4.39          | 4.65                                    |
| 23. Total Allocated Costs                   | \$<br>113.18                                     | 133.39        | 96.22                                   |
| 24. Return Over All Listed Costs            | \$<br>16.23 *                                    |               | (22.35)*                                |
| 25. Supplementary Management Information    |  |               |   |
| 26. Work Units Assigned Per Acre            | 0.45   | 0.45          | 0.45                                    |
| 27. Power Costs Allocation Factor           | 1.00   | 1.00          | 1.00                                    |
| 28. Total Listed Cost/Unit of Production    | 4.08   | 3.54          | 5.45                                    |
| 29. Return Over Listed Costs Per Unit       | 0.46   | 1.06          | (0.96)                                  |
| 30. Breakeven Yield/Units of Production     | 32.87  | 36.70         | 29.45                                   |
| OA. Estimated Total Machine Costs/Acre      | 47.12  | <b>5</b> 3.83 | 42.32                                   |
| 1. Total Listed Costs Per Acre              | \$<br>145.62 *                                   | 165.89 *      | 127.22 *                                |
| 2. Other Possible Costs Not Listed          |  |               |   |
| 33. Utilities + Other General Farm Expenses | 730.06   | 768.46        | 531.60                                  |
| 3A. Buildings, Fences, + Tiling Costs       | <u>-</u>   | ,             |   |
| 4. Interest Allocation                      |  | <u> </u>      | *************************************** |
| 5. Other Costs Not Listed                   | <del>*************************************</del> | <del> </del>  |   |
| 56. Total Costs                             | *·····   |               |   |

<sup>\*</sup>Does not include interest on investment of irrigation equipment
\*\*Line 5 includes value of crop residue, straw, insurance loss payments,
and disaster aid payments.

LINES 13,17,18, + 22 were allocated to this crop by special formula

Table 10 - Crop Data For Alfalfa Hay - 1986

|                |                                 |    | Average<br>138 |              | 28     |   | Low<br>28     |
|----------------|---------------------------------|----|----------------|--------------|--------|---|---------------|
| 1. Acres       |                                 |    | 27.5           |              | 23.1   |   | 33.3          |
|                |                                 | F  | er Acre        |              |        |   |               |
| 2. Yield       |                                 |    | 4.2            |              | 6.7    |   | 1.7           |
|                | Production Unit                 |    | 46.87          |              | 46.05  |   | 42.46         |
| 4. Crop Produ  |                                 | \$ | 197.71         |              | 308.68 |   | 73.96         |
| 5. Other Crop  |                                 |    | 1.13           |              |        |   | 2.22          |
|                | Crop Return                     | \$ | 198.84 +       | <del>(</del> | 308.68 | * | 76.18 *       |
| 7. Direct Cos  |                                 |    |                |              |        |   |               |
| 3. Fertiliz    |                                 |    | 9.35           |              | 7.27   |   | 5.26          |
| 7. Chemical    | 5                               |    | 0.62           |              | 0.13   |   | 0.78          |
| io. Seed       |                                 |    | 8.11           |              | 10.82  |   | 6.82          |
| 10A. Crop Dry  | ing                             |    |                |              |        |   |               |
| 10B. Other Ex  | pense                           |    | 2.22           |              | 1.82   |   | 2.64          |
| li. Special    | Hired Labor                     |    | 0.47           |              | 0.48   |   | 0.06          |
| 12. Custom W   | ork Hired                       |    | 6.07           |              | 2.16   |   | 11.32         |
| l3. Irrigati   |                                 |    |                |              |        |   |               |
| 14. Total      | Direct Costs                    | \$ | 26.84          |              | 22.68  |   | 26.88         |
| 5. Return Ove  | r Direct Costs                  | \$ | 172.00         | <b>*</b>     | 286.00 | * | 49.30 *       |
| 16. Allocated  | Costs (Direct + Fixed)          |    |                |              |        |   |               |
|                | er + Machinery - Ownership      |    | 22.36          |              | 24.40  |   | 20.23         |
|                | er + Machinery - Operation      |    | 29.67          |              | 34.14  |   | 29.09         |
|                | quip Ownership (Manual Alloc)   |    |                |              |        |   |               |
| 20. Land Cos   |                                 |    | 59.35          |              | 56.50  |   | <b>59.4</b> 3 |
|                | neous Costs                     |    | 0.40           |              |        |   | 0.06          |
|                | t on Mach. + Equip. Investment  |    | 5.52           |              | 6.27   |   | 4.25          |
|                | 1 Allocated Costs               | \$ |                |              | 121.31 |   | 113.06        |
|                | r All Listed Costs              | \$ | 54.70          |              | 164.69 |   | (63.76)*      |
| 25. Supplement | ary Management Information      |    |                | -            |        |   |               |
|                | ts Assigned Per Acre            |    | 0.60           |              | 0.60   |   | 0.60          |
|                | sts Allocation Factor           |    | 1.00           |              | 1.00   |   | 1.00          |
|                | sted Cost/Unit of Production    |    | 34.17          |              | 21.49  |   | 80.36         |
|                | ver Listed Costs Per Unit       |    | 13.02          |              | 24.58  |   | (36.62)       |
|                | n Yield/Units of Production     |    | 3.10           |              | 3.13   |   | 3.30          |
|                | d Total Machine Costs/Acre      |    | 61.60          |              | 66.25  |   | 61.12         |
|                | Listed Costs Per Acre           | \$ | 144.14         | *            | 143.99 | * | 139.94 *      |
| 32. Other Poss | ible Costs Not Listed           |    |                |              |        |   |               |
| 33. Utilitie   | s + Other General Farm Expenses |    | 179.39         |              | 98.10  | ` | 209.32        |
| •              | s. Fences + Tiling Costs        |    |                |              |        | _ |               |
| _              | Allocation                      |    |                | •            |        |   |               |
|                | sts Not Listed                  |    |                |              |        |   |               |
|                | Costs                           |    |                | •            |        |   |               |

\*Does not include interest on investment of irrigation equipment Lines 13,17,18, + 22 were allocated to this crop by special formula

Table 10 - Crop Data For Corn And Oats Silage - 1986

|  |                                      |          | 71 Farms      | Oats Silage<br>38 Farms                |
|--|--------------------------------------|----------|---------------|--|
| 1. Acres                                 | ·                                    |          | 23.7          | 22.5                                   |
|  |                                      |          | Per Acre      | Per Acre                               |
| 2. Yield                                 |                                      |          | 14,9          | 5.8                                    |
| 3. Value                                 | Per Production Unit                  |          | 15.18         | 11.59                                  |
| 4. Crop                                  | Product Return                       | \$       | 225.44        | 67.47                                  |
| 5. Other                                 | Crop Income**                        |          | 2.78          | 92.71                                  |
| 6. T                                     | otal Crop Return                     | \$       | 228.22 *      | 160.18 *                               |
|  | t Costs                              |          |               |  |
| 8. Fer                                   | tilizer                              |          | 23.16         | 3.91                                   |
| 9. Che                                   |                                      |          | 12.78         | 0.58                                   |
| 10. See                                  |                                      |          | 17.26         | 8.31                                   |
| 10A. Cro                                 |                                      |          |               |  |
|  | er Expense                           |          | 2.15          | 0.18                                   |
|  | cial Hired Labor                     |          | 0.51          | 0.67                                   |
| •  | tom Work Hired                       |          | 3.29          | 3.33                                   |
|  | igation Operation                    |          | ,5.27         | 3.33                                   |
|  | otal Direct Costs                    |          | <b>59.</b> 15 | 16.98                                  |
| 14. 1                                    | otal Direct Costs                    | \$       | 37.13         | 10.70                                  |
| 15. Retur                                | n Over Direct Costs                  | \$       | 169.07 *      | 143.20 *                               |
| 16. Alloc                                | ated Costs (Direct + Fixed)          |          |               |  |
|  | m Power + Machinery - Ownership      |          | 28.87         | 13.35                                  |
|  | m Power + Machinery - Operation      |          | 32.60         | 19.22                                  |
|  | ig. Equip Ownership (Manual Alloc)   |          | 02.00         | 2 / 1 4.2.                             |
| 20. Lan                                  |                                      |          | 61.24         | 54.03                                  |
|  | cellaneous Costs                     |          | UZIZT         | 34.03                                  |
|  | terest on Mach. + Equip. Investment  |          | 6.44          | 3.56                                   |
| 23. ************************************ | Total Allocated Costs                |          | 129.15        | 90.16                                  |
|  |                                      | \$<br>\$ |               |  |
| 24. Retur                                | n Over All Listed Costs              | ¥        | 39.92 *       | 53.04 *                                |
| 25. Suppl                                | ementary Management Information      |          |               |  |
| 26. Wor                                  | k Units Assigned Per Acre            |          | 0.60          | 0.40                                   |
| 27. Pow                                  | er Costs Allocation Factor           |          | 1.00          | 1.00                                   |
| 28. Tot                                  | al Listed Cost/Unit of Production    |          | 12.68         | 18.40                                  |
| 29. Ret                                  | urn Over Listed Costs Per Unit       |          | 2.69          | 9.11                                   |
| 30. Bre                                  | akeven Yield/Units of Production     |          | 12.40         | 9.24                                   |
|  | imated Total Machine Costs/Acre      |          | 70.10         | 38.35                                  |
|  | otal Listed Costs Per Acre           | \$       |               | 107.14 *                               |
| 70 O+L                                   | Danikla Caska Mak Linkari            |          |               |  |
|  | Possible Costs Not Listed            |          | 470 70        | 400 77                                 |
|  | lities + Other General Farm Expenses |          | 172.32        | 129.37                                 |
|  | ldings, Fences + Tiling costs        |          |               |  |
|  | erest Allocation                     |          |               |  |
|  | er Costs Not Listed                  |          |               |  |
| 36. T                                    | otal Costs                           |          |               | ###################################### |

<sup>\*</sup>Does not include interest on investment of irrigation equipment \*\*Line 5 includes value of insurance loss payments and disaster aid payments.

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. Table 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.

Other cash cost items that are relatively easy to identify and classify in the record book are listed in each of the tables as other direct costs to livestock enterprises. The return over feed and supplemental cost, therefore, is not a new return, but rather the amount available after paying for the feed and those cost items listed to cover outlay for the costs of buildings, machinery, equipment, labor, taxes, insurance, interest, and other fixed costs.

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 total return for the enterprise. The total is divided by the net quantity produced or the number of head to arrive at a per unit figure for comparison.

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

The items listed as supplementary management information provide further clues to the reasons for high, low or average livestock returns.

All livestock costs and returns for livestock enterprises are computed as return per head or per hundred weight produced.

#### AVERAGE PRICES USED FOR 1986 FARM GROWN FEEDS

| GRAINS                    | OTHER ROUGHAGES                | PASTURE                         |
|---------------------------|--------------------------------|---------------------------------|
|                           |                                | day day day day day and may may |
| CORN \$1.80 PER BU.       | CORN SILAGE \$17.00 PER TON    | COMS \$9.00 PER HEAD/MD         |
| QATS \$1.20 PER BU.       | BRASS SILAGE \$13.00 PER TON   | YOUNG CATTLE \$4.50 PER HEAD/MO |
|                           | LEGUME HAYLAGE \$25.00 PER TON | HOGS \$1.00 PER HEAD/NO         |
|                           | DATS STRAW \$1.00 PER BALE     | SHEEP \$1.25 PER HEAD/MO        |
| HAY                       | CORN STACKS \$10.00 PER TON    | LAMBS \$ .90 PER HEAD/MD        |
|                           |                                |                                 |
| ALFALFA \$50.00 PER TON   | •                              |                                 |
| MIXED HAY \$40.00 PER TON |                                |                                 |
| WILD HAY \$30.00 PER TON  |                                |                                 |
|                           | EYPLANATION OF MORY UNITS      |                                 |

The total work units for any one farm is a measure of the size of that farm 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.

#### WORK UNITS FOR EACH CLASS OF LIVESTOCK & EACH ACRE OF CROP

| ITEM NO.              | OF WORK UNITS | ITEM           | NO. OF WORK UNITS | ITEM NO            | . OF WORK UNITS |
|-----------------------|---------------|----------------|-------------------|--------------------|-----------------|
| DAIRY COW             | 7.0/COW       | BARLEY, WHEAT  | .30/ACRE          | SUGARBEETS         | 2.00/ACRE       |
| OTHER DAIRY CATTLE    | 1.2/HEAD      | OATS           | .30/ACRE          | OTHER LEGUME HAY   | .40/ACRE        |
| BEEF BREEDING COMS    | 1.5/HEAD      | RYE, FLAX      | .30/ACRE          | MIXED HAY          | .40/ACRE        |
| BEEF FEEDERS          | .12/CWT.      | CANNING PEAS   | .40/ACRE          | TAME GRASS HAY     | .20/ACRE        |
| HOGS - COMPLETE       | .12/C\T.      | OATS SILAGE    | .40/ACRE          | ANNUAL HAY         | .30/ACRE        |
| HOGS - FINISHING      | .06/CWT.      | CORN FOR SEED  | .60/ACRE          | TILLABLE LAND IDLE | .05/ACRE        |
| HOGS - WEAN. PIGS     | 1.4/LITTER    | CORN FOR GRAIN | .55/ACRE          | SET ASIDE ACRES    | .05/ACRE        |
| SHEEP, FARM FLOCK     | .60/HEAD      | CANNING CORN   | .50/ACRE          | SOYBEANS FOR SEED  | .50/ACRE        |
| LAMBS, FEEDER         | .30/CWT.      | SOYBEANS       | .45/ACRE          | SORGHUM FOR GRAIN  | .50/ACRE        |
| CHICKEN, LAYING FLOCK | 5.0/100       | CORN SILAGE    | .60/ACRE          | LABOR OFF THE FARM | 1.0/\$40        |
| BROILERS              | .20/CWT.      | ALFALFA HAY    | .60/ACRE          |                    |                 |

### ANIMAL UNITS

One animal unit represents; one dairy cow or bull, two other dairy cattle, 1.25 beef cows or bulls, one feeder steer or heifer, 3.33 other beef cattle, 7 sheep, 14 lambs, 2.50 hogs, 5 pigs, 50 hens, or 1,100 lbs. of turkey produced. OTHER NON-CASH COSTS

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

|            |  |     | Average<br>80 | High<br>17    | Low<br>17 |
|------------|--|-----|---------------|---------------|-----------|
| 1.         | Pounds of Hogs Produced                                  | - w | 170,529       | 191,438       | 135,943   |
|            |  |     | Per CWT       | Per CWT       | Per CWT   |
| 2.         | Net Value Produced                                       | \$  |               | <b>56.</b> 05 |           |
| 3.         | Other Miscellaneous Hog Income                           |     |               |               |           |
| 4.         | Total Value Produced                                     | \$  | 51.55 *       | 56.05 *       | 43.08 +   |
| 5.         | Pounds of Feed Fed                                       |     |               |               |           |
| 6.         | Corn   |     | 245.4         | 257.0         | 204.6     |
| 7.         | Small Grain  |     | 6.6           | 2.4           | 5.4       |
| 8.         | Complete Ration  |     | 72.9          | 31.0          | 149.8     |
| 9.         |  |     | 78.5          | 82.5          | 53.1      |
| 0.         |  |     | 403.4         | 372.9         |           |
| 1.         |  |     | 0.3           | 0.2           |           |
|            | Feed Cost  |     |               |               |           |
| 3.         |  |     | 8.06          | 8.28          | 6.90      |
|            | Complete Ration  |     | 4.98          | 1.95          | 11.42     |
|            | Protein, Salt, Mineral + Milk                            |     | 10.82         | 9.96          | 10.61     |
| .6.        |  |     | 0.01          |               | TOTOL     |
|            | Pasture  |     | 0.01          | 0.01          |           |
|            | Total Feed Costs   | \$  | 23.87         | 20.20         | 28.93     |
|            | Return Over Feed Costs                                   | \$  | 27.68 *       | 35.85 *       | 14.15 *   |
|            | Other Direct Costs                                       |     |               |               |           |
|            | Miscellaneous Livestock Expense                          |     | 0.96          | 0.90          | 0.54      |
|            | Veterinary Expense                                       |     | 0.97          | 1.48          | 0.83      |
| 3.         |  |     | 0.24          | 0.13          | 0.37      |
|            | Special Hired Labor                                      |     | 0.52          | 1.63          | 0.05      |
| 25.        | Total Other Direct Costs                                 | \$  | 2.69          | 4.14          | 1.79      |
|            | Return Over Feed + Other Direct Costs<br>Allocated Costs | \$  | 24.99 *       | 31.71 *       | 12.36     |
|            | Power + Machinery Costs (PCAF 1.00)                      |     | 1.35          | 1.13          | 1.71      |
| 9.         | Livestock Equipment Costs (ECAF 5)                       |     | 2.19          | 2.99          | 2.59      |
| 0.         | Building + Fences (BCAF 5)                               | •   | 2.45          | 3.19          | 2.43      |
| 1.         | Total Allocated Costs                                    | \$  | 5.99          | 7.31          | 6.73      |
| 2.         | Return Over All Listed Costs                             | \$  | 19.00 *       | 24.40 *       | 5.63 +    |
| 3.         | Supplementary Management Information                     |     |               |               |           |
| 4.         | Return For \$100 Feed Fed                                |     | 215.99        | 277.49        | 148.93    |
| 5.         | Price Received Per CWT All Animals                       |     | 50.97         | 54.09         | 48.93     |
| 6.         | Price Received Per CWT Sold Mkt. Only                    |     | 51.14         | 53.00         | 49.50     |
| 7.         | •  |     | 97            | 127           | 64        |
| 7A         |  |     | 1.6           | 2.0           | 1.6       |
| 8.         | <b>~</b>   |     | 9.7           | 10.0          | 8.5       |
| 9.         | ₩  |     | 8.2           | 8.8           | 7.3       |
| 9A         |  |     | 7.7           | 7.8           | 7.2       |
| o <b>.</b> | · ·  |     | 11.7          | 9.0           | 15.3      |
| 1.         | Average Weight of All Hogs Sold                          |     | 239.2         | 242.7         | 246.1     |
| 2.         | Average Weight of Market Hogs Sold                       |     | 228.8         | 220.9         | 236.1     |
| 3.         | Price Per CWT Concentrate Fed                            |     | 5.91          | 5.41          |           |
| 4.         |  |     | 13.80         |               | 7.01      |
|            | Price Per Cwt Protein, Salt + Mineral                    |     |               | 12.08         | 19.98     |
| 5.         | Pounds of Pork Purchased                                 |     | 4,963         | 7,972         | 12,162    |
| 6.         | Total Listed Costs Per Cwt Produced                      | \$  | 32.55 *       | 31.65 *       | 37.45 +   |
| 7.<br>8.   | Utilities + General Farm Expense<br>Interest Allocation  |     | 2,811.54      | 2,090.79      | 2,803.58  |

Table 11B 6490 - Hogs, Finishing Enterprise - 1986

|        |   |    | Average<br>59 | High<br>13 | Lo₩<br>13 |
|--------|---|----|---------------|------------|-----------|
| <br>1. | Average Number of Pigs on Hand            |    | 262.1         | 180.8      | 180.4     |
|        | Pounds of Hogs Produced                   |    | 137,186       | 107,030    | 96,623    |
|        |   |    | Per CWT       | Per CWT    | Per CWT   |
| 3.     | Net Value Produced                        | \$ | 38.75         | 46.67      | 34.62     |
|        | Other Miscellaneous Hog Income            | •  | 00170         | 0.48       | 01102     |
| 5.     | <del>-</del>                              | \$ | 38.75.*       | 47.15 *    | 34.62 *   |
|        | Pounds of Feed Fed                        | 49 | SOL/U, X      | 47.1U x    | J4102 A   |
|        | Corn                                      |    | 271 4         | 240.7      | 201.0     |
| 7.     |   |    | 271.6         | 249.7      | 281.8     |
| 8.     |   |    | 3.7           | 7.1        | 5.3       |
|        | Complete Ration                           |    | 29.2          | 80.2       | 86.8      |
|        | Protein, Salt, Mineral + Milk             |    | 78.1          | 53.6       | 78.5      |
| 11.    | Total Concentrate                         |    | 382.6         | 390.6      | 452.4     |
| 12.    | Forages                                   |    |               |            |           |
| 13.    | Feed Cost                                 |    |               |            |           |
| 14.    | Grains                                    |    | 9.01          | 8.35       | 9.72      |
| 15.    | Complete Ration                           |    | 1.76          | 4.34       | 5.28      |
| 16.    | Protein, Salt, Mineral + Milk             |    | 7.64          | 7.15 -     | 11.65     |
| 17.    |   |    | ه مین         |            |           |
| 18.    |   |    |               |            |           |
| 19.    |   | \$ | 20.41         | 19.84      | 26.65     |
| 20.    | Return Over Feed Costs                    | \$ | 18.34 *       | 27.31 *    | 7.97 *    |
| 21.    | Other Direct Costs                        |    |               |            |           |
| 22.    | Miscellaneous Livestock Expense           |    | 0.87          | 0.70       | 0.80      |
| 23.    |   |    | 0.42          | 0.55       | 0.16      |
|        | Custom Hauling, Grinding, Marketing Etc.  |    | 1.02          | 0.14       | 0.31      |
|        | Special Hired Labor                       |    | 0.26          |            | 0.04      |
| 26.    | · · · · · · · · · · · · · · · · · · ·     | \$ | 2.57          | 1.39       | 1.31      |
| 27.    | Return Over Feed + Other Direct Costs     | \$ | 15.77 *       | 25.92 *    | 6.66      |
| 28.    | Allocated Costs                           |    |               |            | •         |
| 29.    | Power + Machinery Costs (PCAF 1.00)       |    | 1.09          | 0.92       | 1.56      |
| 50.    |   |    | 1.65          | 1.76       | 1.82      |
| 31.    | Building + Fences (BCAF 5)                |    | 2.46          | 3.25       | 2.96      |
| 52.    | Total Allocated Costs                     |    | 5.20          | 5.93       | 6.34      |
|        | Return Over All Listed Costs              |    | 10.57 *       | 19.99 *    | 0.32      |
| 54.    |   |    | 10107         | £/1.// ~   | V. J.Z.   |
| 35.    | Return For \$100 Feed Fed                 |    | 189.86        | 237.67     | 129.90    |
|        | Price Received Per CWT.                   |    | 50.78         | 53.00      | 47.85     |
| 36.    |   |    |               |            |           |
| 37.    | Average Weight of Pigs Sold               | ,  | 236.3         | 249.4      | 229.9     |
| 38.    | Average Price Paid Per Pig Bought         |    | 48.98         | 45.02      | 51.50     |
| 39.    | Average Weight Per Pig Bought             | ,  | 47.6          | 47.6       | 48.4      |
| ю.     | Number of Pigs Purchased                  |    | 458           | 365        | 498       |
| 41.    | No. Pigs Transferred In                   |    | 318           | 295        |           |
| 12.    | Average Weight of Pigs Transferred In     |    | 51.2          | 56.5       |           |
| 13.    | Pounds of Pork Purchased                  |    | 21,817        | 17,390     | 24,079    |
| 44.    | Percent Death Loss                        |    | 2.5           | 2.2        | 4.9       |
| 45.    | Price Per CWT. Concentrate Fed            |    | <b>5.</b> 33  | 5.80       | 5.89      |
| 16     | Price Per CWT. Protein, Salt, + Mineral   |    | 12.34         | 13.34      | 14.84     |
| 47.    | Effective Daily Gain - Pounds/Pig/Day     |    | 1.43          | 1.62       | 1.47      |
| 48.    | Total Listed Cost Per CWT Produced        |    | 28.18 *       | 27.16 *    | 34.30     |
| 49.    | Utilities + Other General Farm Expense    |    | 1190.68       | 525.18     | 576.90    |
| . / .  | MATTATE - MAILE MELLEL MY I MILL PUBELINE |    | ~ ~ / V = UU  | walus Ald  | W/W#/V    |

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

|            |   |    | Average<br>24 | High<br>12    | Low<br>12  |
|------------|---|----|---------------|---------------|------------|
| 1.         | Number of Litter Farrowed                 | ·  | 153           | 176           | 131        |
|            |   |    | Per LITTER    | Per LITTER    | Per LITTER |
|            | Net Value Produced                        | \$ | 431.86        | 470.88        | 376-14     |
|            | Other Miscellaneous Hog Income            |    |               | * * *         |            |
|            | Total Value Produced                      | \$ | 431.86 *      | 470.88 *      | 376.14 *   |
| 5.         | Pounds of Feed Fed                        |    |               |               |            |
| 6.         |   |    | 1387.2        | 1,116.0       | 1740.9     |
| 7.         |   |    | 54.1          | 78.4          | 21.1       |
|            | Complete Ration                           |    | 309.9         | 518.8         | 27.0       |
| 9.         |   |    | 689.6         | 825.2         | 502.1      |
| 10.        |   |    | 2440.8        | 2,538.4       | 2,291.1    |
| 11.        | Forages                                   |    |               |               |            |
|            | Feed Cost                                 |    |               |               |            |
| 13.        | ·   |    | 50.22         | 43.52         | 58.82      |
| 14.        | ·   |    | 23.86         | 37.72         | 5.06       |
| 15.        |   |    | 75.87         | 54.07         | 104.60     |
| 16.        | <b>~</b>                                  |    |               | <i>t</i>      |            |
| 17.        | Pasture                                   |    |               |               |            |
| 18.        | Total Feed Costs                          | \$ | 149.95        | 135.31        | 168.48     |
|            | Return Over Feed Costs                    | \$ | 281.91 *      | 335.57 *      | 207.66 *   |
|            | Other Direct Costs                        |    |               | •             |            |
| 21.        |   |    | 13.50         | 13.68         |            |
|            | Veterinary Expense                        |    | 21.29         | 24.75         | •          |
|            | Custom Hauling, Grinding, Marketing Etc.  |    | 4.39          | 6.18          | 1.93       |
| 24.        | •   |    | 6.96          | 5.47          | 8.92       |
| 25.        | Total Other Direct Costs                  | \$ | 46.14         | 50.08         | 40.49      |
|            | Return Over Feed + Other Direct Costs     | \$ | 235.77 *      | 285.49 *      | 167.17 *   |
|            | Allocated Costs                           |    |               |               |            |
| 28.        | <b>7</b>                                  |    | 15.62         | 17.33         | 13.23      |
| 29.        |   |    | 22.59         | 20.86         | 24.75      |
| 30.        |   |    | 40.21         | 48.21         | 29.48      |
|            | Total Allocated Costs                     | \$ | 78.42         | <b>86.4</b> 0 | 67.46      |
|            | Return Over All Listed Costs              | \$ | 157.35 *      | 199.09 *      | 99.71 *    |
|            | Supplementary Management Information      |    |               | •             |            |
| 34.        | Return For \$100 Feed Fed                 |    | 288.00        | 347.99        | 223.25     |
| 35.        | Average Price Received Per Animal Sold    |    | 53.50         | 54.00         | 50.02      |
| 36.        | Average Price Per Pig Sold or Transferred |    | 51.84         | <b>54.</b> 07 | 49.78      |
| 37.        | Average Weight Per Pig Sold or Transferre | d  | 51.5          | 56.1          | 46.1       |
| <b>38.</b> | Number of Pigs Produced                   |    | 1,168         | 1,322         | 1,014      |
| 39.        | Number of Pigs Born Per Litter            |    | 10.1          | 10.1          | 10.1       |
| 40.        | Number of Pigs Weaned Per Litter          |    | 8.3           | 8.7           | 7.8        |
| 40A.       | • • • • • • • • • • • • • • • • • • •     |    | 1.7           | 1.9           | 1.6        |
| 40B        | Pigs Produced/Per Sow/Per Year            |    | 14.1          | 15.8          | 12.2       |
| 41.        | Percent Death Loss                        |    | 14.8          | 11.8          | 19.0       |
| 42.        | Price Per CWT Concentrate Fed             |    | 6.14          | <b>5.</b> 33  | 7.35       |
| 43.        | Price Per CWT Protein, Salt + Mineral     |    | 11.00         | 6.55          | 20.83      |
| 44.        | Feed + Direct Costs Per Pig Produced      |    | 25.69         | 24.68         | 27.52      |
| 45.        | Total Listed Costs Per Litter             | \$ | 274.51 *      | 271.79 *      | 276.43 *   |
| 46.        | Utilities + General Farm Expense          |    | 2701.60       | 1,911.08      | 2,402.76   |

Table 12 - Dairy Cows, Commercial - 1986

|          |  |    | Average<br>36                         | High<br>12      | Low<br>12 |
|----------|--|----|---------------------------------------|-----------------|-----------|
| 1.       | Average Number of Cows   |    | 38.9                                  | 42.3°           | 37.0      |
|          |  |    | Per COW                               | Per COW         | Per COW   |
| 2.       | Pounds of Milk   |    | 13,314                                | 15,110          | 11,714    |
| 3.       | Pounds of Butterfat  |    | 479.3                                 | 536.1           | 416.3     |
|          | Percent of Butterfat in Milk   |    | 3.6                                   | 3.6             | 3.6       |
|          | Value of Produce   |    | 3.0                                   | 3.0             | 5.0       |
| 6.       | Dairy Products Sold  | \$ | 1,505.30                              | 1,702.96        | 1,308.11  |
| 7.       | Dairy Products Used in Home  |    | 3.37                                  | 2.36            | 4.05      |
| 8.       | Milk Fed to Livestock  |    | 17.97                                 | 22.34           | 7.19      |
| 9.       | Net Change in Value of Cows  |    | (84.96)                               | (11.54)         | (141.68)  |
| ٥.       | Other Miscellaneous Dairy Income                                     |    | 21.34                                 | 58.89           |           |
| 1.       | Total Value Produced   | \$ | 1,463.02 *                            | 1,775.01 *      | 1 177 67  |
|          | Pounds of Feed Fed   | •  | 1,400102                              | 1,770.01 %      | 1,1//10/  |
| 3.       | Corn   |    | 5,392.5                               | 5,592.4         | 5,626.4   |
| 4.       | Small Grain  |    | 248.4                                 | 182.4           | 388.0     |
| 5.       | Complete Ration  |    | 92.6                                  | 636.9           | 360.0     |
| 6.       | Protein, Salt + Mineral  |    | 1,034.6                               | 1,038.9         | 1 004 0   |
| 7.       | Total Concentrates   |    | · · · · · · · · · · · · · · · · · · · | •               | 1,004.8   |
| ,.<br>В. | Legume Hay   |    | 6,768.1                               | 7,450.6         | 7,019.2   |
| 9.       | Other Hay + Dry Roughage   |    | 6,513.7                               | 5,200.5         | 9,115.3   |
| ó.       | Silage   |    | 130.8                                 | 7.1             | 404.5     |
| οÀ.      |  |    | 14,389.6                              | 13,111.9        | 18,492.8  |
|          | Feed Costs   |    | 1,038.3                               | 106.1           | 2,702.7   |
| 2.       | Grains   |    | 400 77                                |                 |           |
| 3.       |  |    | 182.37                                | 191.87          | 189.11    |
| ٥.<br>4. | Complete Ration  |    | 20.00                                 | 80.80           |           |
| 5.       | Protein/Salt/Mineral   |    | 172.96                                | 182.81          | 120.08    |
|          | Hay/Haylage + Dry Roughage   |    | 151.62                                | 148.18          | 167.11    |
| 6.       | Silage   |    | 102.01                                | 104.56          | 108.43    |
| 7.       | Pasture  | ķ  | 2.44                                  | 0.78            | 5.68      |
| 8.       | Total Feed Costs   | \$ | 631.40                                | 709.00          | 590.41    |
|          | Return Over Feed Costs   | \$ | 831.62 *                              | 1,066.01 *      | 587.26 ¥  |
|          | Other Direct costs   |    |                                       |                 |           |
| 1.       | Miscellaneous Livestock Expense                                      |    | 104.42                                | 104.96          | 107.35    |
| 2.       | Veterinary Expense   |    | 25.94                                 | 31.56           | 25.54     |
| 3.       | Custom Hauling, Grinding, Marketing, Etc                             |    | <b>58.</b> 12                         | 60.45           | 51.24     |
| 4.       | Special Hired Labor  |    | 20.93                                 | 28.20           |           |
| 5.       | Total Other Direct Costs   | \$ | 209.41                                | 225.17          | 184.13    |
|          | Return Over Feed + Other Direct Costs<br>Allocated Costs             | \$ | 622.21 *                              | 840.84 *        | 403.13    |
| 3.       | Power + Machinery Costs (PCAF 1.00)                                  |    | 55.48                                 | 66.75           | 48.99     |
| 7.       | Livestock Equipment Costs (ECAF 5)                                   |    | 69.61                                 | 103.12          | 38.59     |
| ١.       | Buildings + Fences (BCAF 5)  |    | 54.25                                 | 72.64           |           |
| ι.       | Total Allocated Costs  | \$ | 179.34                                |                 | 36.77     |
|          | Return Over All Listed Costs   | \$ | 442.87 *                              | 242.51          | 124.35    |
|          | Supplementary Management Information                                 | *  | 442.0/ *                              | 598.33 <b>*</b> | 278.78 +  |
| ł.       | Return For \$100 Feed Fed  |    | 771 71                                | ' OEO TE        | 400 47    |
| ā.       | Feed Cost Per CWT. Milk  |    | 231.71                                | 250.35          | 199.47    |
| ; .      | Feed Cost Per Cound of Butterfat                                     |    | 4.74                                  | 4.69            | 5.04      |
| , .      |  |    | 1.32                                  | 1.32            | 1.42      |
| ·<br>}.  | Pounds of Milk Per Pound of Concentrate                              |    | 1.56                                  | 1.31            | 1.67      |
|          | Average Price Per CWT. Milk Sold                                     |    | 11.53                                 | 11.54           | 11.30     |
| 7.       | Average Price Per Pound of Butterfat                                 | ,  | 3.18                                  | 3.21            | 3.18      |
| •        | Total Listed Costs Per CWT. Milk Produce                             | d  | 7.66                                  | 7.79            | 9.67      |
|          | Dairy Cow Turnover Percentage  |    | 48.8                                  | 44.9            | 51.4      |
| _        |  |    |                                       |                 |           |
| 2.       | Total Listed Costs Per Cow<br>Utilities + Other General Farm Expense | \$ | 1,020.15 *                            | 1,176.68 *      | 898.89 *  |

Table 13 - Other Dairy, Commercial Replacement - 1986

|  | Average<br>34   | High<br>12 | Low<br>12       |
|--|-----------------|------------|-----------------|
|  | <br>            |            |                 |
| 1. Number of Head                            | <b>63.</b> 0    | 54.9       | 63.3            |
|  | Per HEAD        | Per HEAD   | Pen HEAD        |
| 2. Net Value Produced                        | \$<br>327.22    | 461.40     | 218.23          |
| 3. Other Miscellaneous Income                |                 |            | •               |
| 4. Total Income                              | \$<br>327.22 *  | 461.40 *   | 218.23          |
| 5. Pounds of Feed Fed                        |                 |            |                 |
| 6. Corn                                      | 1,252.2         | 1,094.6    | 1,168.8         |
| 7. Small Grain                               | 171.9           | 278.3      | 110.9           |
| 8. Complete Ration                           | 342.2           | 5.6        | <b>35</b> 3.0   |
| 9. Protein, Salt + Mineral                   | 235.9           | 227.6      | 198.4           |
| lO. Hay + Roughage                           | 1,740.1         | 1,810.6    | 1,761.6         |
| 1. Silages                                   | <b>5,176.</b> 3 | 5,577.1    | <b>5,1</b> 03.3 |
| l1A. Haylage                                 | 246.5           | 39.7       | 410.7           |
| 2. Milk                                      | 57.2            | 85.3       | 34.2            |
| 3. Feed Cost                                 |                 |            |                 |
| 4. Grains                                    | 45.44           | 44.21      | <b>40.9</b> 8   |
| 5. Complete Ration                           | 8 <b>.4</b> 6   | 0.73       | 21.58           |
| 6. Protein, Salt + Minerals                  | 38.54           | 37.47      | 32.50           |
| 7. Hay/Haylage+ Dry Roughage                 | 47.46           | 44.95      | <b>53.7</b> 1   |
| 8. Silage                                    | 41.84           | 46.89      | 38.15           |
| .9. Milk                                     | 5.52            | 6.47       | 3.67            |
| 20. Pasture                                  | 2.41            | 1.44       | 3.76            |
| 21. Total Feed Costs                         | \$<br>189.67    | 182.16     | 194.35          |
| 22. Return Over Feed Costs                   | \$<br>137.55 *  | 279.24 *   | 23.88 *         |
| 23. Other Direct Costs                       |                 |            |                 |
| 24. Miscellaneous Expense                    | 9.03            | 10.95      | 10.90           |
| 5. Veterinary Expenses                       | 5.35            | 6.67       | 3.98            |
| 26. Custom Hauling, Grinding, Marketing Etc. | 1.48            | 0.58       | 2.23            |
| 27. Special Hired Labor                      | 2.75            | 0.33       | 8.17            |
| 28. Total Other Direct Costs                 | \$<br>18.61     | 18.53      | 25.28           |
| 29. Return Over Feed + Other Direct Costs    | \$<br>118.94 *  | 260.71 *   | (1.40)*         |
| 30. Allocated Costs                          |                 |            | •               |
| 1. Power + Machinery Costs (PCAF 1.00)       | 10.65           | 11.02      | 12.39           |
| 52. Livestock Equipment Costs (ECAF 5)       | 14.31           | 10.08      | 19.81           |
| 33. Building + Fences (BCAF 5)               | 11.74           | 10.84      | 15.08           |
| 74. Total Allocated Costs                    | \$<br>36.70     | 31.94      | 47.28           |
| 55. Return Over All Listed Costs             | \$<br>82.24 *   | 228.77 *   | (48.68)         |
| 6. Supplementary Management Information      |                 |            |                 |
| 57. Return For \$100 Feed Fed                | 172.52          | 253.28     | 112.29          |
| 88. Percent Death Loss - Total               | 7.9             | 6.1        | 9.3             |
| 59. Percent Calf Death Loss                  | 20.9            | 14.6       | 24.3            |
| O. Total Listed Costs Per Head               | \$<br>244.98 *  | 232.63 *   | 266.91 *        |
| 11. Utilities + Other General Farm Expenses  | 920.38          | 370.97     | 1354.68         |
| 12. Interest Allocation                      |                 |            |                 |

Table 14 - All Dairy Cattle - 1986

|     |  |    | Average<br>44  | High<br>15         | Low<br>15  |
|-----|--|----|----------------|--------------------|------------|
| 1.  | Average Number of Cows                   |    | 39.7           | 39.1               | 46.5       |
|     | The age trained of agree                 |    |                | Per COW            | Per COW    |
| 2.  | Value of Dairy Products                  | \$ | 1,546.37       |                    |            |
|     | Net Change in Value                      | •  | 351.54         | 490.90             | 228.58     |
|     | Miscellaneous Dairy Income               |    | 17.10          | 50.97              | 220.00     |
| 5.  | •  | \$ | 1,915.01 *     |                    | 1,548.43 * |
| 6.  | Pounds of Feed Fed                       |    |                |                    |            |
| 7.  |  |    | 7,354.8        | 7,434.8            | 7,411.6    |
| 8.  | Complete Rations                         |    | 2 040 0        | 750 A              | 705 1      |
| 9.  | Protein, Salt + Mineral, Incl Milk Equiv |    | 1,314.6        | 1.539.3            | 1 172 9    |
| 10. | Hay + Dry Roughage                       |    | 9,309.8        | 1,539.3<br>7,530.B | 11,535.2   |
| 11. | Silage                                   |    | 21 371 0       | 19,163.9           | 28,209.0   |
| 11A | ·  |    | 2,235.1        | 1,890.2            | 3,523.0    |
| 12  | Feed Cost                                |    |                |                    |            |
| 13. |  |    | 235.29         | 238.95             | 234.71     |
| 14. | Complete Ration                          |    | 52.64          | 37.26              | 22.41      |
| 15. | Protein, Salt + Minerals, Incl Milk      |    | 209.35         | 280.38             | 150.71     |
| 16. | Hay/Haylage + Dry Roughage               |    | 218.04         | 221.94             | 214.19     |
| 17. | Silage                                   |    | 150.55         | 156.27             | 168.43     |
| 18. | Pasture                                  |    | 4.91           | 3.17               | 5.61       |
| 19. | Total Feed Costs                         | \$ | <b>8</b> 70.78 | 937.97             | 796.06     |
| 20. | Return Over Feed Costs                   | \$ | 1,044.23 *     | 1,390.93 *         | 752.37 *   |
| 21. | Other Direct Costs                       |    |                |                    |            |
| 22. | Miscellaneous Livestock Expense          |    | 116.88         | 108.44             | 101.87     |
| 23. | Veterinary Expense                       |    | 36.35          | 45.45              | 22.09      |
| 24. | Custom Hauling, Grinding, Marketing Etc  |    | 61.16          | 62.28              | 55.83      |
| 25. | Special Hired Labor                      | -  | 20.15          | 25.91              | 28.67      |
| 26. | Total Other Direct Costs                 | \$ | 234.54         | 242.08             | 208.46     |
| 27. | Return Over Feed + Other Direct Costs    | \$ | 809.69 *       | 1,148.85 *         | 543.91 *   |
| 28. | Allocated Costs                          |    |                |                    |            |
| 29. | Power + Machinery Costs                  |    | 74.21          | 84.06              | 69.69      |
| 30. | Livestock Equipment Costs                |    | 97.26          | 127.35             | 83.36      |
| 31. | Building + Fences                        |    | 77.10          | 71.19              | 77.86      |
| 32. | Total Allocated Costs                    | \$ | 248.57         | 282.60             | 230.91     |
| 33. | Return Over All Listed Costs             | \$ | 561.12 *       | 866.25 *           | 313.00 *   |
| 34. | Supplementary Management Information     |    |                |                    |            |
| 35. | Return For \$100 Feed Fed                |    | 219.92         | 248.29             | 194.51     |
|     | Total Listed Costs Per Cow               | \$ | 1,353.89 *     | 1,462.65 *         | 1,235.43 * |
| 36. |  |    |                |                    |            |

Table 15A - Beef Breeding Cattle - 1986

|  | Average<br>22                         | High<br>11                            | Low<br>11 |
|--|---------------------------------------|---------------------------------------|-----------|
| 1. Average Number of Cows  | 52.6                                  | 48.9                                  | 56.3      |
| 2. Average Number of Other Beef Animals + Bulls                  | 31.0                                  | 36.1                                  | 25.8      |
| 3. Pounds of Beef Produced                                       | 21,490                                |                                       | 21,823    |
| 3. Founds of beet froudced                                       | Per COW                               | Per COW                               | Per COW   |
| 4. Net Value Produced \$   | 281.88                                | 361.68                                | 212.58    |
| 5. Other Miscellaneous Beef Income                               | 201.00                                | 301130                                | 212.00    |
| 6. Total Value Produced \$                                       | 281 88 #                              | 361.68 *                              | 212.58 *  |
| 7. Pounds of Feed Fed  | 201100 "                              | 001100                                |           |
| 8. Grain   | 448.0                                 | 445.5                                 | 450.2     |
| 9. Protein, Salt + Mineral                                       | 56.9                                  | 72.5                                  | 43.4      |
| 10. Legume Hay   | 2,604.0                               | 3,438.9                               |           |
| 11. Other Hay + Dry Roughage                                     |                                       | 474.1                                 |           |
| 12. Silage   | 3,634.6                               |                                       |           |
| 12A. Haylage   | 0,001.0                               | 0,10011                               |           |
| 13. Feed Costs   |                                       |                                       |           |
| 14. Grain  | 15.91                                 | 17.20                                 | 14.80     |
| 15. Protein, Salt + Mineral                                      | 6.16                                  | 4.30                                  | 7.76      |
| 16. Legume Hay/Haylage   | 63.84                                 | 90.33                                 | 40.83     |
| 17. Other Hay + Dry Roughage                                     | 5.48                                  | 4.60                                  | 6.23      |
| 18. Silage   | 33.88                                 | 29.00                                 | 38.13     |
| 19. Pasture  | 30.49                                 | 28.06                                 | 32.61     |
| 20. Total Feed Costs \$  |                                       | 173.49                                | 140.36    |
| ZV. TOTAL FEED OUSVS   | 100.70                                |                                       | 2.00.22   |
| 21. Return Over Feed Costs \$                                    | 126.12 *                              | 188.19 *                              | 72.22 *   |
| 22. Other Direct Costs   |                                       | · ·                                   | ,         |
| 23. Miscellaneous Livestock Expense                              | 4.18                                  | 1.94                                  | 6.13      |
| 24. Veterinary Expense   | 7.74                                  | 6.67                                  | 8.65      |
| 25. Custom Hauling, Grinding, Marketing Etc.                     | 1.58                                  | 1.00                                  | 2.06      |
| 26. Special Hired Labor  | 1.63                                  | 3.35                                  | 0.16      |
| 27. Total Other Direct Costs \$                                  | 15.13                                 | 12.96                                 | . 17.00   |
| 28. Return Over Feed + Other Direct Costs \$ 29. Allocated Costs | 110.99 *                              | 175.23 *                              | 55.22 *   |
| 30. Power + Machinery Costs (PCAF 1.00)                          | 17.48                                 | 15.71                                 | 16.50     |
| 31. Livestock Equipment Costs (ECAF 5)                           | 30.67                                 |                                       | 27.92     |
| 32. Building + Fences (BCAF 5)                                   | 24.27                                 | 13.46                                 | 27.37     |
| 33. Total Allocated Costs \$                                     |                                       | 58.63                                 | 71.79     |
|  |                                       | · · · · · · · · · · · · · · · · · · · |           |
| 34. Return Over All listed Costs \$                              | 38.57 <b>*</b>                        | 116.60 *                              | (16.57)*  |
| 35. Supplementary Management Information                         |                                       |                                       | •         |
| 36. Return For \$100 Feed Fed                                    | 180.97                                | 208.46                                | 151.46    |
| 37. Price Per CWT. Sold  | <b>52.</b> 59                         | 56.87                                 | 44.64     |
| <ol> <li>Price Per CWT. Calves Sold or Transferred</li> </ol>    |                                       | 51.39                                 | 61.12     |
| 39. Average Weight Per Head Sold                                 | 812.7                                 | 793.0                                 | 929.5     |
| 40. Average Weight Per Calf Sold/Transferred                     | ·                                     | 667.4                                 | 478.0     |
| 41. Percent Death Loss   | 4.1                                   | 4.0                                   | 3.3       |
| 42. Percent Calf Crop  | 94.5                                  | 96.0                                  | 93.3      |
| 42A. Percent Calf Death Loss                                     | 6.3                                   | 6.4                                   | 8.2       |
| 43. Total Listed Costs Per Cow \$                                |                                       |                                       |           |
| 44. Utilities + Other General Farm Expense                       | 787.39                                | 346.67                                | 1126.11   |
| 45. Interest Allocation  | · · · · · · · · · · · · · · · · · · · |                                       |           |

Table 15B Beef Feeders Feedlot - 1986

| ·          | مية بعد وقي هند رسيد شده فيده وجب بينه بنبد هند نعلت بعد بعين منت هذه بعد بعد شد هده وجب بعد شده وجب بعد سد من وجه بعين شده شده |    |   |                            |                   |
|------------|---|----|---|----------------------------|-------------------|
|            |   |    | Calves<br>Average<br>35                 | Yearlings<br>Average<br>21 |                   |
|            | Average Number of Beef Feeders  |    |   |                            |                   |
|            | Pounds of Beef Produced   |    |   | 89.2                       |                   |
|            | . January Deer Frances  |    | So, ZII                                 | 66,243<br>Per CWT          | 118,619           |
| 3.         | Net Value Produced  | \$ | 55.33                                   |                            |                   |
|            | Other Miscellaneous Beef Income   | •  | 00.00                                   | 33.30                      | J2. 01            |
| 5.         |   | \$ | 55.33 *                                 | 53.50 *                    | 52.81 *           |
| 6.         | Pounds of Feed Fed  | ·  |   | 40.40                      | OZ.OI .           |
| 7.         | Grain   |    | 558.8                                   | 507.3                      | 676.8             |
| 8.         | Protein, Salt + Mineral   |    | 54.7                                    | 82.4                       | 43.,3             |
| 9.         | Legume Hay  |    | 105.2                                   |                            | 6543              |
| 10.        |   |    | 17.2                                    |                            | 48.5              |
| 11.        | •   |    |   | 609.2                      |                   |
| 11A        | - Haylage   |    | 45.1                                    | 57.1                       | 27.4              |
|            |   |    |   |                            |                   |
|            | Feed Cost   |    |   |                            |                   |
| 13.        |   |    | 18.02                                   | 16.36                      | 22.05             |
| 14.        | ,   |    | 6.73                                    | 5.97                       | 6.04              |
| 15.        | Legume Hay/Haylage  |    | 3.23                                    | 3.08                       | 1. <del>9</del> 7 |
| 16.        | ,,  |    | 0.25                                    |                            | 0.39              |
| 17.        |   |    | 7.28                                    | 6.11                       | 2.70              |
| 18.        |   | _  | 0.09                                    | 0.07                       |                   |
| 19.        | Total Feed Costs  | \$ | 35.60                                   | 31.72                      | 33.15             |
|            | Return Over Feed Costs  | \$ | 19.73 *                                 | 21.78 *                    | 19.66 *           |
| 22.        | Other Direct Costs  |    |   |                            |                   |
| 23.        | Miscellaneous Livestock Expense   |    | 0.62                                    | 0.81                       | 0.22              |
|            | Veterinary Expense  |    | 1.32                                    | 1.23                       | 0.88              |
|            | Custom Hauling, Grinding, Marketing Etc   | :. |   | 1.15                       | 0.60              |
| 26.        | Special Hired Labor Total Other Direct Costs  | _  | 0.11                                    | 0.13                       | 0.04              |
| 20.        | Total Other Direct Costs  | \$ | 2.81                                    | 3.32                       | 1.74              |
|            | Return Over Feed + Other Direct Costs   | \$ | 16.92 *                                 | 18.46 *                    | 17.92 *           |
| 29.        | Allocated Costs   |    | 4                                       |                            |                   |
| 30.        | Power + Machinery Costs (PCAF 1.00)   |    | 1.77                                    | 1.31                       | 1.28              |
| 31.        | Livestock Equipment Costs (ECAF 5) Building + Fences (BCAF 5)   |    | 2.71                                    | 2.49                       | 1.54              |
| 32.        | Building + Fences (BCAF 5) Total Allocated Costs  |    | 2.45                                    | 2.02                       | 3.24              |
| J2.        | total Milocated Costs   | \$ | 6.93                                    | 5.82                       | 6.06              |
|            | Return Over All Listed Costs  | \$ | 9.99 *                                  | 12.64 *                    | 11.86 *           |
| 34.        | Supplementary Management Information  |    |   |                            |                   |
| 35.        | Return For \$100 Feed Fed   |    | 155.42                                  | 168.67                     | 159.32            |
| 36.        | Price Per CWT. Sold   |    | <b>57.1</b> 0                           | 56.93                      | 57.23             |
| 37.        | Average Weight Per Head Sold  |    | 1,091.7                                 | 1,106.4                    | 1,118.1           |
| 38.        | Price Per CWT Bought  |    | 60.46                                   | 60.52                      | 59.87             |
| 39.        | Average Weight Per Head Bought  |    | 519.0                                   | 650.9                      | 716.1             |
| 40.        | Number of Head Bought   |    | 47                                      | 130                        | 276               |
| 41.        | Percent Death Loss  |    | 0.9                                     | 0.9                        | 0.4               |
| 42.        | Effective Daily Gain—Pounds/Head/Day  |    | 1.79                                    | 2.03                       | 2.14              |
| 43.        | Total Listed Costs Per CWT Produced   | \$ | 45.34 *                                 | 40.86 *                    | 40.95 *           |
| 44.<br>45. | Utilities + Other General Farm Expense<br>Interest Allocation   |    | 438.79                                  | 950.48                     | 2173.07           |
|            | THE THE HEADERNAUL  |    | *************************************** |                            |                   |

Table 16A-6670 - Sheep - Farm Flock -1986

|     |   |      | Average<br>18 | High<br>9 | Low<br>9                               |
|-----|---|------|---------------|-----------|--|
|     |   |      | 18            | <b></b>   | ······································ |
|     | Average Number of Ewes                  |      | 94.3          | 88.6      | 100.0                                  |
|     | Pounds of Lamb + Mutton Produced        |      | 13,214        | 15, 185   | 11,242                                 |
| 3.  | Pounds of Wool Produced                 |      | <b>9</b> 32   | 1,186     | 679                                    |
|     |   |      | Per EWE       | Per EWE   | Per EWE                                |
| 4.  | Value Produced                          |      |               |           |  |
| 5.  | Wool                                    |      | 12.32         | 15.52     | 9.48                                   |
| 6.  | Net Value Produced - Animals            |      | 101.27        | 124.57    | 80.64                                  |
| 7.  | Other Miscellaneous Sheep Income        |      |               |           |  |
| 8.  | Total Value Produce                     | \$   | 113.59 *      | 140.09 *  | 90.12                                  |
| 9.  | Pounds of Feed Fed                      |      |               |           |  |
| 0.  | Grain                                   |      | 503.6         | 427.2     | 571.3                                  |
| 1.  | Protein, Salt + Mineral                 |      | 89.0          | 87.7      | 90.1                                   |
| 2.  | Legume Hay                              |      | 754.4         | 618.3     | 875.1                                  |
| 3.  | Other Hay + Dry Roughage                |      | 35.3          | 75.2      |  |
| 4.  | Silage                                  |      | 205.0         | 270.9     | 146.7                                  |
| .4Α | . Haylage                               |      | 106.0         | 225.7     |  |
| 5.  | Feed Cost                               |      |               |           |  |
| 6.  | Grain                                   |      | 18.53         | 14.15     | 22.39                                  |
| 7.  | Protein, Salt + Mineral                 |      | 11.89         | 11.32     | 12.39                                  |
| 18. | Legume Hay/Haylage                      |      | 20.66         | 18.77     | 22.34                                  |
| 9.  | Other Hay + Dry Roughage                |      | 1.11          | 1.88      | 0.43                                   |
| 20. | Silage                                  |      | 1.57          | 2.17      | 1.04                                   |
| 21. | Pasture                                 |      | 3.01          | 4.28      | 1.89                                   |
| 2.  | Total Feed Costs                        | \$   | 56.77         | 52.57     | 60.48                                  |
| 73. | Return Over Feed Costs                  | \$   | 56.82 *       | 87.52 *   | 29.64                                  |
|     | Other Direct Costs                      | •    | 00101 -       | G/IGE "   | 17101                                  |
| 25. | Miscellaneous Livestock Expense         |      | 2.83          | 3.54      | 2.19                                   |
| 26. | Veterinary Expense                      |      | 4.97          | 5.71      | 4.33                                   |
| 27. | Custom Hauling, Grinding, Marketing Etc |      | 1.80          | 2.64      | 1.05                                   |
| 28. | Special hired Labor                     |      | 0.08          | 0.19      | 1100                                   |
| 29. | Total Other Direct Costs                | \$   | 9.68          | 12.08     | 7.57                                   |
| ₹O_ | Return Over Feed + Other Direct Costs   | \$   | 47.14 *       | 75.44 *   | 22.07                                  |
|     | Allocated Costs                         | •    | 7/0,47        | 70177 *   | 22.07                                  |
| 32. | Power + Machinery Costs (PCAF 1.00)     |      | 6.96          | 6.12      | 7.78                                   |
| 33. | Livestock Equipment Costs (ECAF 5)      |      | 9.99          | 7.19      | 12.67                                  |
| 34. | Building + Fences (BCAF 5)              | . *  | 7.77<br>9.97  | 7.10      | 12.68                                  |
| 55. | Total Allocated Costs                   | \$   | 26.92         | 20.41     | 33.13                                  |
|     | TOVAL HITOCAVEA GOSVS                   | *    | 20.72         | 20.41     | 33.13                                  |
|     | Return Over All Listed Costs            | \$   | 20.22 *       | 55.03 *   | (11.06)                                |
|     | Supplementary Management Information    |      |               |           |  |
| 8.  | Return For \$100 Feed Fed               |      | 200.11        | 266.47    | 149.01                                 |
| 9.  | Price Per CWT. Lamb + Mutton Sold       |      | 69.43         | 70.26     | 68.41                                  |
| 0.  | Price Per CWT. Lamb Sold or Transferre  |      | 71.29         | 73.07     | 68.97                                  |
| 1.  | Average Weight of Lambs Sold/Transferr  | ed . | 112.5         | 110.0     | 115.8                                  |
| 2.  | Pounds of Wool per Sheep Sheared        |      | 12.3          | 15.6      | 9.1                                    |
| 3.  | Number of Ewes Kept For Lambing         |      | 88            | 87        | 88                                     |
| 4.  | Percent Lamb Crop                       |      | 152.7         | 171.3     | 135.4                                  |
| 5.  | Percent Death Loss                      |      | 8.8           | 7.5       | 10.0                                   |
| 5A. | . Percent Lamb Death Loss               |      | 11.9          | 10.1      | 14.8                                   |
| 6.  | Total Listed Costs Per Ewe              | \$   | 93.37 *       | 85.06 *   | 101.18                                 |
| 17. | Utilities + Other General Farm Expense  |      | 459.59        | 275.88    | <b>485.9</b> 0                         |
| 8.  | Interest Allocation                     |      |               |           |  |

|  | 1977    | 1978    | 1979    | 1980     | 1981    | 1982    | 1983    | 1984    | 1985    | 1986    |
|--|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|
| Farm Size (Acres)                                      | 413     | 417     | 414     | 415      | 412     | 433     | 428     | 412     | 438     | 453     |
| Return to Operator Labor<br>& Manageament (WF)         | 18,241  | 39,054  | 7,706   | 29,431   | (5,614) | 12,675  | 4,513   | (2,983) | 5,280   | 11,209  |
| Return to Capital &<br>Family Labor (OS)               | 23,442  | 48,038  | 21,102  | 38,817   | 3,362   | 20,869  | 13,419  | 2,461   | 8,753   | 17,474  |
| Average Investment Per<br>Farm Bussiness (TI)          | 388,344 | 486,911 | 542,965 | 622, 154 | 646,726 | 705,838 | 709,421 | 634,488 | 566,308 | 504,788 |
| Cash Saless Per Farm<br>Businesss (T2A-37)             | 96,581  | 134,493 | 149,526 | 171,054  | 175,305 | 177,642 | 195,388 | 174,070 | 158,571 | 163,465 |
| Cash Experse Per Farm<br>Business (T28-39)             | 83,702  | 113,674 | 144,956 | 138,216  | 139,406 | 140,676 | 191,228 | 192,034 | 104,553 | 111,743 |
| Expenses f <sup>3</sup> er Dollar<br>of Income (TS-28) | 0.85    | 0.78    | 0.94    | 0.85     | 1.00    | 0.91    | 0,96    | 1.02    | 0.97    | 0.92    |
| Ratio of Mssets to<br>Liabilities (TS-L29)             | 2.42:1  | 2.55:1  | 2.55:1  | 2.77:1   | 2.24:1  | 1.88:1  | 1.87:1  | 1.95:1  | 1.78:1  | 1.85:1  |
| Gain in Nest Worth (T5-L16)                            | 14,827  | 37,007  | 11,457  | 24,269   | (9,570) | 9,096   | (1,173) | (6,583) | 303     | 13,028  |
| Size of Business<br>(Work Units) (T1-L6)               | 365     | 382     | 396     | 414      | 422     | 434     | 455     | 396     | 429     | 427     |
| Tractor & Grop Machinery<br>Expense/Crop Acre (T8-L41) | 29.07   | 34.27   | 41.27   | 48.41    | 48.94   | 50.35   | 49.73   | 51.28   | 46.44   | 44.24   |
| Percent of Income From<br>Livestock: (WF)              | 55%     | 59%     | 62%     | 57%      | 29%     | 209     | 54%     | 57%     | 52%     | 49%     |
| Percent of Income From<br>Crops (MF)                   | 38%     | 35%     | 32%     | 38%      | 35%     | 35%     | 38%     | 37%     | 43%     | 44%     |
| Percent of Miscellaneous<br>Farm Income (MF)           | 2       |         | 67      | 5%       | 29      | 5%      | 88      | 29      | 3%      | %E      |
| Family Living Expenses/Year<br>(T4-L23)                | 14,796  | 16,767  | 20,610  | 18,585   | 19,477  | 20,769  | 22,611  | 20,910  | 17,583  | 21,476  |
| Family Living Expenses/Month                           | 1,233   | 1,397   | 1,718   | 1,549    | 1,623   | 1,731   | 1,855   | 1,743   | 1,465   | 1,790   |

| PETINON ABOUT FEED FORT DED:     | 1977  | 1978        | 1979        | 1980   | 1961   | 1982      | 1983   | 1984  | 1985  | 1986   |
|----------------------------------|-------|-------------|-------------|--------|--------|-----------|--------|-------|-------|--------|
| Dairy Cow                        | 501   | 710         | 780         | 784    | 742    | 731       | 634    | 742   | 950   | 832    |
| Beef Cow                         | 17    | 297         | 202         | 129    | 8      | .09       | 53     | 37    | 64    | 126    |
| CWT Feeder Cattle Produced       | 2.07  | 30.00       | 28,63       | 7.41   | 6.24   | 19.41     | 8.35   | 8,48  | 9.04  | 19.73  |
| CWI Hogs Produced                | 17.19 | 28.88       | 9.71        | 12.24  | 10.89  | 28.83     | 11.12  | 20.82 | 18.41 | 27.68  |
| YIELD PER ACRE                   |       |             |             |        |        |           |        |       |       |        |
| Corn, Bu.                        | 98.1  | 113.2       | 104.8       | 108.8  | 120.4  | 121.9     | 83.9   | 108.7 | 122.4 | 126.0  |
| Soybeans, Bu.                    | 36.3  | 41.3        | 32.6        | 37.1   | 37.4   | 39.4      | 32.0   | 32.0  | 33.4  | 35.7   |
| Oats, Bu.                        | 74.7  | 57.3        | 55.0        | 67.8   | 54.4   | 79.9      | 53.6   | 65.6  | 77.9  | 56.7   |
| Corn Silage, Ton                 | 13.4  | 15.1        | 15.7        | 13.7   | 14.4   | 15.9      | 12.1   | 13.6  | 16.3  | 14.9   |
| Alfalfa, Ton                     | a.a   | <b>4.</b> E | <b>4</b> .6 | 3.8    | e<br>A | <b>4.</b> | 4.1    | 4.6   | 4.1   | 4.     |
| Wheat, Bu.                       | 48.8  | 26.2        | 28.7        | 37.9   | 32.7   | 35.8      | 35.4   | 44.2  | 54.4  | 37.8   |
| RETURN OVER TOTAL COSTS PER ACRE | CRE   |             |             |        |        |           |        |       |       |        |
| Corn                             | 30.96 | 32.08       | 19.85       | 97.82  | 35.15  | 7.52      | 17.47  | 16.92 | 63.75 | 6.15   |
| Soybeans                         | 74.10 | 130.32      | 57.29       | 123.59 | 56.31  | 20.01     | 99.14  | 18.21 | 8.76  | 16.23  |
| Oats                             | 1.61  | -13.37      | -10.88      | 30.61  | -7.46  | 7.06      | -19.18 | 18.53 | 0.77  | -25.58 |
| Wheat                            | 18.80 | -26.52      | 9.01        | 42.39  | 3.31   | 9.77      | 11.44  | 55.39 | 60.42 | -30.89 |

#### SETTING GOALS

One of the primary aims of the farm management education program is to assist farmers in reaching their farm and family goals. Clarifying their ideas as to what they really want is a very important step in improving the farm business and as a result improve family living.

Sitting down as an operator or husband and wife and putting these wants in writing is done in one of the early classes in the adult farm management education program.

Planning goals is not easy. All members of a family may not agree on what goals are most important. The family may have to give serious thought and discussion to the goals they choose so that all members of the family can benefit from the farming business. Not all goals are related to farm income. Some very important goals for a family may be in the area of social, community, family, church and educational activities.

Setting up goals in a systematic way lets the family fit the wants and desires of all the family members into a plan. There are no right or wrong goals, since each family may approach the problems and opportunities they have in a different way. It is important that goals be reviewed frequently to see if conditions have changed. If the goals are too inflexible, they may be a liability to progress rather than an asset.

On the bottom of this page is a place for you and your family to write your goals for the coming year. The following year, these goals will be reviewed, evaluated and probably changed or expanded to fit the ever changing needs and desires of the family.

#### WHAT DOES YOUR FAMILY WANT?

| NAME   |   |                     |
|--|---|---------------------|
|  | DATE  |                     |
| ADDRESS  |   |                     |
| One of the steps for improving the farm and of things you have wanted as a family, but members to agree upon what is most importanty your goals for this year and for the future | it takes considerable thought and discrete and which things are first | ussion among family |
|  | This year   | Later               |
| FOR A PROFITABLE FARM BUSINESS:  |   |                     |
|  |   |                     |
|  |   |                     |
|  |   |                     |
|  |   | İ                   |
| FOR SATISFYING LIVING:   |   |                     |
| ON SATISFIING LIVING:  |   |                     |
|  |   | ·                   |
|  |   |                     |
|  |   |                     |
|  |   |                     |
| OR DEVELOPMENT OF FAMILY MEMBERS:  |   |                     |
| THE PROPERTY.  |   | İ                   |
|  |   |                     |
|  |   |                     |
| •  |   |                     |
| OR LONG TERM FINANCIAL SECURITY:   |   |                     |
| EN LONG PENT PINANCIAL SECURITI:   |   |                     |
|  |   |                     |
|  |   |                     |
|  |   |                     |
|  |   |                     |
|  | t e   | I                   |