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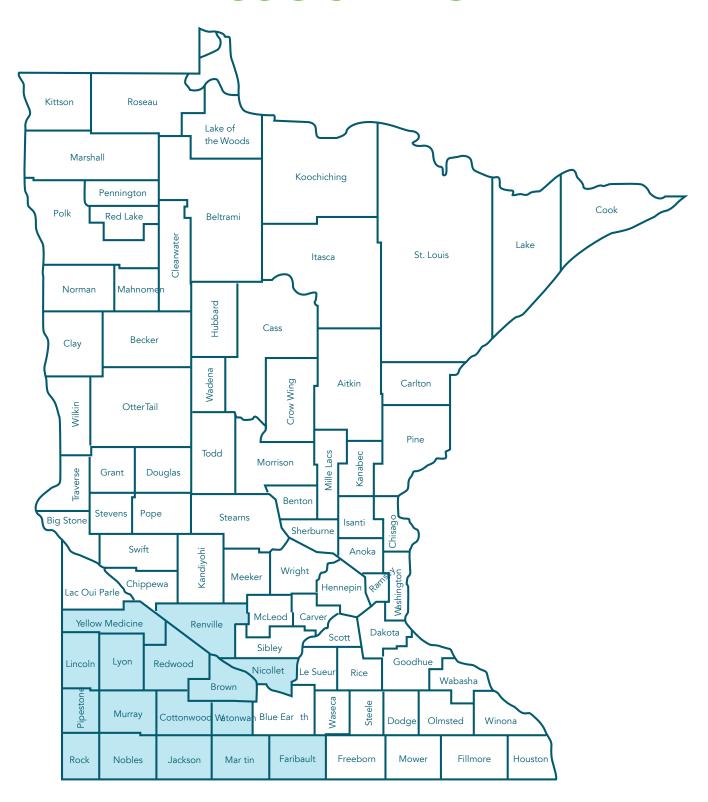
# SOUTHWESTERN MINNESOTA FARM BUSINESS MANAGEMENT ASSOCIATION

# 2012 ANNUAL REPORT



Staff Paper P13-2
Department of Applied Economics
University of Minnesota
Saint Paul, MN 55108
March 2013

### SOUTHWEST MINNESOTA FARM BUSINESS MANAGEMENT ASSOCIATION

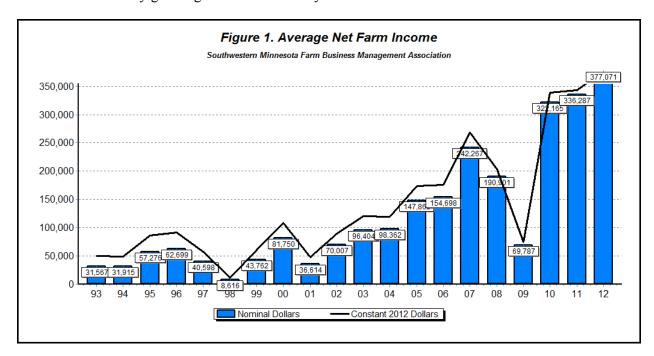


### Executive Summary

### 2012 Annual Report of the Southwestern Minnesota Farm Business Management Association

by Dale W. Nordquist, Donald L. Nitchie, James N. Kurtz, Garen J. Paulson, Janet M. Froslan, John L. Woodford, Tonya L. Knorr and Ian V. Sandager

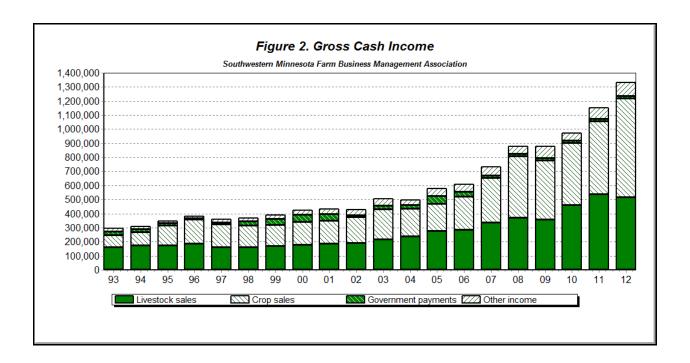
Average net farm income was \$377,071 for the 110 farms included in this 2012 annual report of the Southwestern Minnesota Farm Business Management Association. Inflation adjusted profits were up 10% from earnings reported in 2011. Very strong prices for corn and soybeans offset lower corn yields that resulted from dry growing conditions in many counties of Southwest Minnesota.



Highlights of association financial results for 2012:

- Median net farm income, or the income earned by the middle farm, was \$294,840, substantially lower than the average. This indicates that the average is skewed by high profits of the most profitable farms. This is consistent with most recent years with the exception of 2009, when losses suffered by large livestock farms reversed this relationship.
- As is the case every year, incomes varied widely across the entire group. The average net farm income for the most profitable 20% of the farms was \$895,799 while the least profitable 20% earned \$99,444.
- Average gross cash income was up 16% from 2011 while cash expenses increased by 18%. Much
  of the increased net farm income resulted from the increased value of crop inventories held at the end
  of the year.

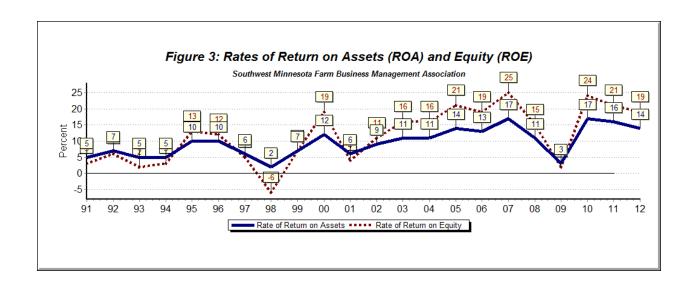
Entire report is available at: http://www.cffm.umn.edu/Publications/Pubs/FBMA/SW\_MN\_FBMA\_2012.pdf

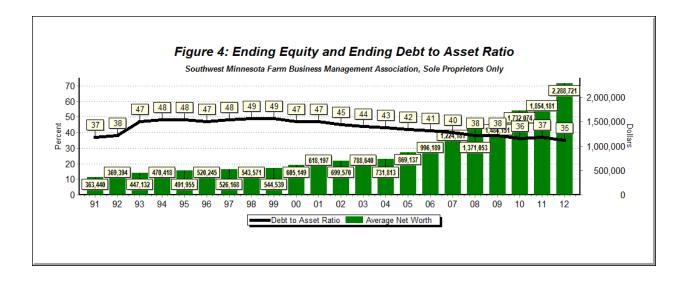


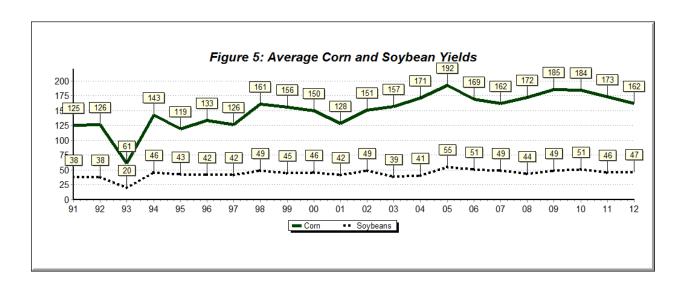
- Crop sales accounted for 53% of gross income while livestock sales were 38% (Figure 2). Crop sales accounted for a much greater portion of sales than in previous years due primarily to high crop prices.
- Government payments accounted for 2% if gross cash income and 6% of net farm income. Government payments increased slightly due to an increase in the average acres farmed. The average operation farmed 886 crop acres compared to 791 in 2011.
- Rates of return were again very strong, though slightly lower than earned in 2011. Average rate of return on assets (ROA) was 14% (assets valued at adjusted cost or book value), down from 16% in 2011 (Figure 3). Rate of return on equity (ROE) averaged 19%, down from 21% in 2011.
- The average farm reported net worth growth of \$471,988. Net worth growth from earnings (farm and non-farm) averaged \$282,564. The remainder resulted from changes in asset values.
- The debt-to-asset ratio of the average sole proprietor farm improved from 37% to 35% (Figure 4).

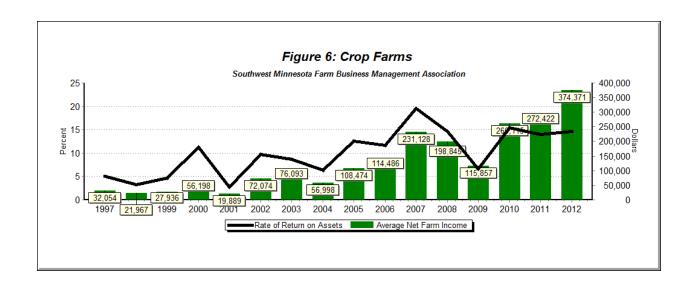
#### **Crops**

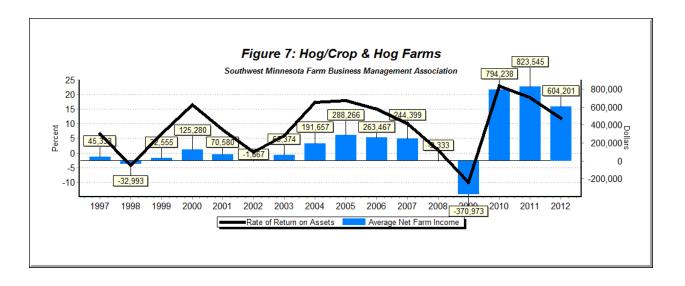
- Corn yields averaged 162 bushels per acre, down 10 bushels from the average of the last 10 years. Soybeans yields averaged 47 bushels, right on the association ten year average (Figure 5). Drought conditions gradually developed across the area as the 2012 growing season progressed. The June 5 Drought Monitor showed virtually no abnormally dry areas in Southwest Minnesota. By September most of the area was in moderate to severe drought. Yet the area escaped the severe yield reductions that impacted much of the Midwest.
- The Midwest drought coupled with already tight supply conditions sent corn and soybean prices to record levels. The average price received for corn was \$6.27 per bushel compared to \$5.29 in 2011. Soybeans averaged \$13.07 per bushel, up from \$11.58.

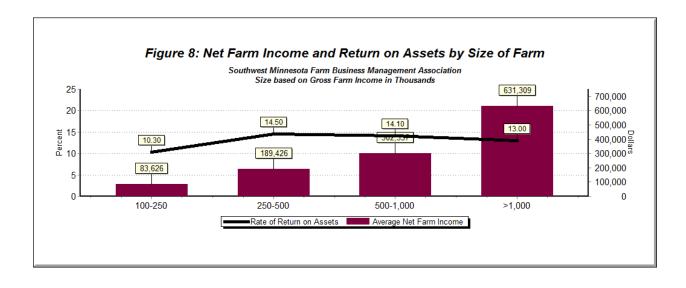












• The cost to raise an acre of corn (with land rent) increased by 16% while soybean costs increased by 15%. The cost to produce a bushel of corn increased by almost a dollar per bushel, from \$3.74 in 2011 to \$4.72 in 2012. Soybean costs per bushel increased by almost two dollars, from \$9.86 to \$11.75 per bushel. These costs include a charge for unpaid labor and management, but do not include a charge for equity capital. Cash rental rates increased by 22% on corn and soybean ground.

### **Type of Farm**

- Crop farms were very profitable, with an average net farm income of \$374,371 and an average ROA of 15.0 % (Figure 6). Record prices for corn and soybeans more than offset decreased corn yields and substantial increases in costs of production.
- Even with very high feed prices, hog farms were profitable in 2012, though not as profitable as in the two previous years. Specialized hog farms and hog/crop farms (those farms with over 70% of gross income from sale of hogs or a combination of hogs and crops) earned an average net farm income of \$604,201 and an ROA of 12% (Figure 7).
- There were not enough beef or dairy farms in the group to summarize these farms by type.

#### Size of Farm

- Net incomes generally increased with farm size when measured based on gross farm income (Figure 8). Yet, except for the smallest farms, rates of return on assets were not correlated with farm size. Mid-sized farms, those that grossed between \$250,000 and \$500,000, were most profitable with and ROA of 14.5%, but there was likely no statistical difference between these and the returns of larger farms.
- The smaller farms, those that grossed between \$100,000 and \$250,000, were profitable but not as profitable, with an ROA of 10.3%.

The report provides additional information on whole farm financial performance as well as detailed information on crop and livestock enterprise profitability. The report also includes whole-farm financial condition and performance by business size, type of farm, debt-to-asset ratio, and age of operator.

### 2012 Annual Report Southwestern Minnesota Farm Business Management Association

by

by Dale W. Nordquist, Donald L. Nitchie, James N. Kurtz, Garen J. Paulson, Janet M. Froslan, John L. Woodford, Tonya L. Knorr and Ian V. Sandager <sup>1</sup>

This report summarizes the individual farm records of the members of the Southwestern Minnesota Farm Business Management Association for 2012.

Whole-farm information and enterprise costs and returns are reported. The year-end analysis of the individual farms was performed by the Association fieldmen using the FINPACK software from the Center for Farm Financial Management. The individual analyses were summarized at the Department of Applied Economics using RankEm Central. In addition to the average of all farms, the averages for the high and low income groups are also presented. The tables are divided into four major groups: whole-farm information, crop enterprises, livestock enterprises, and summary information. The summary information includes whole farm historical trends and information by farm size, type of farm, debt to asset ratio, and operator age.

Of the 122 farms in the Southwestern Association, the data for 110 farms are included in this report. The rest were omitted because the records were incomplete at the time that this report was prepared. In addition to this report, members receive an annual farm business analysis; on-farm instructional visits; end-of-year income tax planning and preparation; periodic meetings, tours, and seminars; a monthly newsletter; and other managerial and educational assistance. Each farmer pays an annual fee which covers the majority of the cost, with the balance defrayed by University of Minnesota Extension and research programs of the University of Minnesota.

<sup>&</sup>lt;sup>1</sup>Nordquist is Extension Economist–Center for Farm Financial Management (CFFM), University of Minnesota, Twin Cities; Nitchie is Regional Extension Educator--Farm Management and Fieldmen for the Association; Kurtz, Paulson, Froslan, Woodford, Knorr and Sandager are financial analysts for the Association.

Special thanks to Rann Loppnow, Software Development, CFFM; Eliza Herman, Program Associate, CFFM; and Barb Lenning, Southwest Research and Outreach Center.

### **Southwestern Minnesota Farm Business Management Association**

### **Distribution of Membership -- 2012**

|                     | Number of Farm   | Number of Records |  |
|---------------------|------------------|-------------------|--|
| County              | Units            | Submitted         |  |
|                     |                  |                   |  |
| Cottonwood          | 14               | 12                |  |
| Jackson             | 18               | 15                |  |
| Lyon                | 4                | 2                 |  |
| Martin              | 3                | 2                 |  |
| Murray              | 19               | 18                |  |
| Nobles              | 21               | 17                |  |
| Pipestone           | 10               | 10                |  |
| Redwood             | 7                | 7                 |  |
| Rock                | 6                | 6                 |  |
| Watonwan            | 9                | 7                 |  |
| Others <sup>2</sup> | <u>11</u>        | <u>14</u>         |  |
| TOTAL               | $1\overline{22}$ | 110               |  |

### **Officers and Directors**

Brian Ling, President Mike Metz, Vice President Kerry Tutt, Secretary-Treasurer

The directors of the Southwestern Minnesota Farm Business Management Association for 2012/2013 are: Mark Christensen, Chad Diemer, Bob Hartman, Brent Pohlman, Mike Sandager, and Matt Wolle.

<sup>&</sup>lt;sup>2</sup>Records were also submitted from members in Faribault, Lac Qui Parle, McLeod, Mower, Wabasha and Yellow Medicine counties.

### Southwestern Minnesota Farm Business Management Association

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### **Whole-Farm Reports**

The whole-farm reports summarize the financial performance of member farms in 2012. Each table (except for the balance sheets) includes the average of the 110 farms included in the report and the average 20 percent of the farms with the lowest and highest profits (base on Net Farm Income). In a change from previous years, the balance sheet reports include all farms, including partnerships and corporations. Appendix I provides detail on how the whole-farm measures are calculated. Below is a short summary of the whole farm reports.

### **Financial Summary**

The Financial Summary report provides a summary of the key financial measures and ratios included on the other detailed whole farm reports.

#### **Financial Standards Measures**

The Farm Financial Standards Council recommends that farms use these sixteen measures as standard measures of farm financial performance. They are sometimes called the *Sweet 16*. Many are repeated from the Profitability, Liquidity, and Balance Sheet tables. For a complete description, see the Financial Guidelines for Agricultural Producers at <a href="http://www.ffsc.org/guidelines.htm">http://www.ffsc.org/guidelines.htm</a>.

#### **Farm Income Statement**

The Income Statement calculates the accrual Net Farm Income generated by the average farm for year 2012. Net Farm Income represents the return to the operator's and family's unpaid labor, management, and equity capital (net worth). It is the amount the farm contributed to owner family living, income taxes, and net worth growth. However, it does not include any asset appreciation, debt forgiveness or asset repossessions.

### **Profitability Measures**

The profitability measures are calculated based on both the cost value of assets and the market value. When calculated based on the market value of assets, the profitability measures can be compared to interest rates and returns available on alternative investments. When based on cost values, the returns more closely estimate the actual returns from the actual investment. (Cost values do not reflect the tax basis of farm assets. Instead, a method of calculating depreciation is used that estimates economic depreciation over the useful life of the assets.)

The Rate of Return on Assets (ROA) can be thought of as the interest rate earned by all investment in farm assets. Rate of Return on Equity (ROE) is the rate earned on the operator's equity or net worth in the farm business. If ROE is higher than ROA, borrowed funds more than paid for their cost in interest expense. Operating Profit Margin measures efficiency in farm operations. The higher the margin, the more of the farm income remained in pockets of the farm operator. Asset Turnover Rate measures efficiency in use of capital. Again, the higher the better. Farms with high investment in fixed assets will generally have a lower turnover rate than those who lease a major share of their capital.

#### **Liquidity and Repayment Capacity Measures**

Liquidity reflects the ability of the farm to meet its financial obligations on time. *Current Ratio* is current farm assets divided by current farm liabilities. *Working Capital* is current farm assets minus current farm liabilities. Businesses with more working capital are generally in a better position to overcome short-term financial downturns or production problems. *Working Capital to Gross Income* measures liquidity relative to business size.

Repayment capacity measures the ability of the business to meet debt payments and replace capital assets. *Term Debt Coverage Ratio* measures the ability of the business to meet its scheduled debt payments. A term debt coverage ratio greater than 1.0 indicates that the business produced more than enough earnings to meet its scheduled debt payments. *Replacement Coverage Ratio* adds the need for capital replacement. A replacement coverage ratio greater than 1.0 indicates that the business produced more than enough earnings to meet its payments and replace its depreciable assets.

### **Balance Sheets**

Balance sheet reports are included for both the cost and market value of assets. Current assets are identical in both tables, with crop and livestock inventories generally valued at market value. This conforms to the methodology recommended by the Farm Financial Standards Council. Intermediate and long term assets are shown at depreciated value using estimated economic depreciation, not tax, on the cost-based table. On the market table, they are valued at estimated market value.

Liabilities are the same on the cost and market tables except for the inclusion of *Deferred Liabilities* on the market statements. Deferred liabilities are the estimated taxes that would be paid if assets were liquidated at their market values.

*Net Worth Change* on the cost value table is the amount of earned net worth growth or loss for the year. Net worth change on the market value table includes both earned growth and changes in the market valuation of capital assets.

#### **Statement of Cash Flows**

The Statement of Cash Flows displays the sources and uses of cash for the year. *Cash From Operating Activities* includes sources and uses of cash related to normal farm operations. *Cash From Investing Activities* reflect cash used to buy and sell capital assets. *Cash From Financing Activities* includes sources and uses of borrowed funds as well as cash from nonfarm activities.

#### **Crop Production and Marketing**

This table reports farm size in acres farmed, average crop yields for major commodities, and average crop sales prices for the calendar year. Yields and prices are reported for the average of all farms for more commodities than those included in the High and Low columns because a minimum of five farms are required to report the yield or price for any group.

### **Household and Personal Expenses**

This table reports family living and other non-farm expenditures. Only sole proprietors who keep detailed family living records are included.

### **Operator and Labor Information**

All previous tables report results per farm, regardless of the number of families or operators involved in the operation. This report repeats several measures from previous tables on a *Per Operator* basis. It also summarizes estimated labor hours used and labor performance.

### **Nonfarm Summary**

This table summarizes nonfarm earnings for the average farm and details nonfarm assets and liabilities.

# Financial Summary Southwest Minnesota Farm Business Management Association (Farms Sorted By Net Farm Income)

| (* marin                            | 4 . 01    |           |           |
|-------------------------------------|-----------|-----------|-----------|
|                                     | Avg. Of   | 1 au 200/ | Uinh 200/ |
|                                     | All Farms | Low 20%   | High 20%  |
| Number of farms                     | 110       | 22        | 22        |
| Number of family                    | 110       | 22        | 22        |
| Income Statement                    |           |           |           |
| Gross cash farm income              | 1,332,519 | 397,646   | 3,365,702 |
| Total cash farm expense             | 1,057,018 | 269,293   | 2,935,605 |
| Net cash farm income                | 275,501   | 128,352   | 430,097   |
| Inventory change                    | 157,209   | 5,050     | 546,920   |
| Depreciation                        | -66,085   | -34,382   | -115,017  |
| Net farm income from operations     | 366,624   | 99,020    | 862,000   |
| Gain or loss on capital sales       | 10,447    | 424       | 33,798    |
| Average net farm income             | 377,071   | 99,444    | 895,799   |
| Median net farm income              | 294,840   | 106,129   | 636,837   |
| modian not farm modifie             | 201,010   | 100,120   | 000,007   |
| Profitability (cost)                |           |           |           |
| Rate of return on assets            | 13.9 %    | 8.5 %     | 16.3 %    |
| Rate of return on equity            | 18.6 %    | 10.9 %    | 22.2 %    |
| Operating profit margin             | 30.2 %    | 19.7 %    | 31.9 %    |
| Asset turnover rate                 | 46.0 %    | 43.3 %    | 51.2 %    |
|                                     |           |           |           |
| Liquidity & Repayment (end of year) |           |           |           |
| Current assets                      | 1,136,463 | 338,649   | 2,739,613 |
| Current liabilities                 | 364,744   | 133,510   | 901,662   |
| Current ratio                       | 3.12      | 2.54      | 3.04      |
| Working capital                     | 771,719   | 205,138   | 1,837,950 |
| Working capital to gross inc        | 52.0 %    | 51.6 %    | 47.2 %    |
| Term debt coverage ratio            | 4.63      | 3.04      | 6.30      |
| Replacement coverage ratio          | 3.38      | 2.12      | 4.76      |
|                                     |           |           |           |
| Solvency (end of year at market)    |           |           |           |
| Number of farms                     | 110       | 22        | 22        |
| Total farm assets                   | 3,491,321 | 1,224,170 | 6,533,202 |
| Total farm liabilities              | 1,284,483 | 488,859   | 2,503,262 |
| Total assets                        | 3,799,785 | 1,421,440 | 6,803,770 |
| Total liabilities                   | 1,361,818 | 558,050   | 2,611,433 |
| Net worth                           | 2,437,968 | 863,390   | 4,192,338 |
| Net worth change                    | 471,988   | 98,056    | 894,366   |
| Farm debt to asset ratio            | 37 %      | 40 %      | 38 %      |
| Total debt to asset ratio           | 36 %      | 39 %      | 38 %      |
| Newform Information                 |           |           |           |
| Nonfarm Information                 | 20.044    | 20.442    | 17 100    |
| Net nonfarm income                  | 30,841    | 39,142    | 17,123    |
| Farms reporting living expenses     | 42        | 9         | 6         |
| Total family living expense         | 73,904    | 67,444    | 62,025    |
| Total living, invest, cap. purch    | 135,406   | 100,879   | 161,902   |
| Crop Acres                          |           |           |           |
| Total acres owned                   | 216       | 82        | 301       |
| Total crop acres                    | 886       | 411       | 1,868     |
| Total crop acres owned              | 205       | 70        | 286       |
| Total crop acres cash rented        | 617       | 292       | 1,480     |
| Total crop acres share rented       | 63        | 49        | 102       |
| . C.a. Grop doros charo formod      |           |           | 102       |

# Financial Standards Measures Southwest Minnesota Farm Business Management Association (Farms Sorted By Net Farm Income)

|                                 | Avg. Of   | 4 - 000/ | 111 1 000/ |
|---------------------------------|-----------|----------|------------|
|                                 | All Farms | Low 20%  | High 20%   |
| Number of farms                 | 110       | 22       | 22         |
| Liquidity                       |           |          |            |
| Current ratio                   | 3.12      | 2.54     | 3.04       |
| Working capital                 | 771,719   | 205,138  | 1,837,950  |
| Working capital to gross inc    | 52.0 %    | 51.6 %   | 47.2 %     |
| Solvency (market)               |           |          |            |
| Farm debt to asset ratio        | 37 %      | 40 %     | 38 %       |
| Farm equity to asset ratio      | 63 %      | 60 %     | 62 %       |
| Farm debt to equity ratio       | 0.58      | 0.66     | 0.62       |
| Profitability (cost)            |           |          |            |
| Rate of return on farm assets   | 13.9 %    | 8.5 %    | 16.3 %     |
| Rate of return on farm equity   | 18.6 %    | 10.9 %   | 22.2 %     |
| Operating profit margin         | 30.2 %    | 19.7 %   | 31.9 %     |
| Net farm income                 | 377,071   | 99,444   | 895,799    |
| EBIDTA                          | 459,177   | 146,683  | 1,025,309  |
| Repayment Capacity              |           |          |            |
| Capital debt repayment capacity | 370,921   | 110,496  | 833,907    |
| Capital debt repayment margin   | 290,734   | 74,134   | 701,593    |
| Replacement margin              | 261,156   | 58,277   | 658,727    |
| Term debt coverage ratio        | 4.63      | 3.04     | 6.30       |
| Replacement coverage ratio      | 3.38      | 2.12     | 4.76       |
| Efficiency                      |           |          |            |
| Asset turnover rate (cost)      | 46.0 %    | 43.3 %   | 51.2 %     |
| Operating expense ratio         | 69.1 %    | 63.1 %   | 73.7 %     |
| Depreciation expense ratio      | 4.5 %     | 8.7 %    | 3.0 %      |
| Interest expense ratio          | 1.8 %     | 3.3 %    | 1.2 %      |
| Net farm income ratio           | 25.4 %    | 25.0 %   | 23.0 %     |

### Farm Income Statement Southwest Minnesota Farm Business Management Association (Farms Sorted By Net Farm Income)

|   | Avg. Of<br>All Farms | Low 20%       | High 20%  |
|---|----------------------|---------------|-----------|
| Number of farms                                 | 110                  | 22            | 22        |
| Cash Farm Income                                |                      |               |           |
| Beans, Navy                                     | 187                  | -             | -         |
| Corn  | 436,510              | 177,458       | 1,012,484 |
| Corn Silage                                     | 5,616                | 2,722         | 20,254    |
| Hay, Alfalfa                                    | 49,164               | 2,277         | 236,131   |
| Hay, Mixed                                      | 377                  | 1,424         | -         |
| Oats  | 180                  | 282           | -         |
| Peas, Processing                                | 517                  | -             | 2,585     |
| Soybeans  | 207,306              | 99,968        | 360,494   |
| Soybeans Seed                                   | 398                  | -             | -         |
| Stover  | 162                  | -             | 53        |
| Sugar Beets                                     | 1,832                | -             | -         |
| Sweet Corn, Processing                          | 1,192                | -             | 2,520     |
| Wheat, Spring                                   | 511                  | 370           | 1,005     |
| Wheat, Winter                                   | 103                  | -             | 517       |
| Miscellaneous crop income                       | 18,117               | 684           | 87,652    |
| Beef Cow-Calf, Beef Calves                      | 2,032                | 3,178         | 3,489     |
| Beef Backgrounding                              | 600                  | ,<br>-        | 3,000     |
| Beef Finishing                                  | 28,563               | 588           | 22,855    |
| Dairy, Milk                                     | 70,052               | 11,792        | 100,718   |
| Dairy, Dairy Calves                             | 793                  | 752           | -         |
| Dairy Replacement Heifers                       | 5,162                | -             | 11,800    |
| Dairy Finishing                                 | 9,295                | 24,795        | ,         |
| Hogs, Farrow To Finish, Raised Ho               | 17,669               | 5,157         | 70,435    |
| Hogs, Feeder Pig Prod, Feeder Pig               | 98                   | 489           |           |
| Hogs, Finish Feeder Pigs                        | 8,385                | 811           | _         |
| Sheep, Market Lamb Prod, Mkt Lamb               | 1,890                | -             | 6,157     |
| Sheep, Market Lamb Prod, Wool                   | 87                   | _             | 247       |
| Hogs, Weaning to Finish                         | 346,948              | _             | 1,210,176 |
| Cull breeding livestock                         | 4,428                | 1,336         | 6,074     |
| Misc. livestock income                          | 182                  | 77            | 503       |
| Direct, CCP & ACRE pymts                        | 14,961               | 6,939         | 27,742    |
| CRP payments                                    | 783                  | 163           | 416       |
| Livestock govt payments                         | 796                  | 771           | 1,051     |
| Other government payments                       | 4,370                | 3,441         | 5,357     |
| Custom work income                              | 47,118               | 18,909        | 120,819   |
| Patronage dividends, cash                       | 5,664                | 1,417         | 12,702    |
| •   | 10,978               | 10,330        | 9,223     |
| Crop insurance income Property insurance income | 1,592                | 10,330<br>254 | 5,631     |
| Contract livestock income                       |                      | 18,133        |           |
| Other farm income                               | 16,792               |               | 5,762     |
|   | 11,111               | 3,128         | 17,849    |
| Gross Cash Farm Income                          | 1,332,519            | 397,646       | 3,365,702 |

# Farm Income Statement (Continued) Southwest Minnesota Farm Business Management Association (Farms Sorted By Net Farm Income)

|                                 | Avg. OfAII Farms | Low20%  | High 20%         |
|---------------------------------|------------------|---------|------------------|
| Number of farms                 | 110              | 22      | 22               |
| Cash Farm Expense               |                  |         |                  |
| Seed .                          | 81,740           | 35,334  | 172,482          |
| Fertilizer                      | 86,605           | 39,065  | 169,474          |
| Crop chemicals                  | 26,383           | 12,921  | 49,424           |
| Crop insurance                  | 14,904           | 7,407   | 27,255           |
| Drying expense                  | 1,434            | 683     | 2,761            |
| Storage                         | 243              | 161     | 333              |
| Irrigation energy               | 192              | -       | -                |
| Packaging and supplies          | 619              | 104     | 2,992            |
| Crop miscellaneous              | 1,326            | 260     | 4,834            |
| Consultants                     | 1,145            | 47      | 2,869            |
| Feeder livestock purchase       | 102,788          | 4,712   | 283,093          |
| Purchased feed                  | 329,518          | 17,621  | 1,204,243        |
| Breeding fees                   | 1,314            | 392     | 2,463            |
| Veterinary                      | 11,509           | 1,617   | 35,768           |
| Supplies                        | 5,455            | 2,384   | 9,856            |
| DHIA                            | 503              | 144     | 204              |
| Contract production exp.        | 8,286            | -       | 1,162            |
| Livestock leases                | 4,016            | _       | 20,081           |
| Interest                        | 27,141           | 13,272  | 50,998           |
| CCC buyback                     | 15,513           | 1,301   | 69,245           |
| Fuel & oil                      | 36,128           | 14,408  | 74,306           |
| Repairs                         | 42.441           | 20.226  | 64,580           |
| Custom hire                     | 14,987           | 5,762   | 46,339           |
| Hired labor                     | 34,851           | 8,917   | 96,602           |
| Land rent                       | 138,278          | 59,423  | 353,395          |
|                                 | 8,137            | 943     | 27,631           |
| Machinery leases                | 21,214           | 2,059   |                  |
| Building leases                 |                  | •       | 95,142<br>8,636  |
| Real estate taxes               | 5,911            | 1,744   |                  |
| Farm insurance                  | 9,973            | 4,615   | 18,909<br>12,914 |
| Utilities                       | 9,843            | 6,287   | 12,914           |
| Hauling and trucking            | 1,661            | 1,308   | ,                |
| Marketing                       | 3,763            | 810     | 6,278            |
| Dues & professional fees        | 3,288            | 2,226   | 4,831            |
| Miscellaneous                   | 5,908            | 3,141   | 15,330           |
| Total cash expense              | 1,057,018        | 269,293 | 2,935,605        |
| Net cash farm income            | 275,501          | 128,352 | 430,097          |
| Inventory Changes               |                  |         |                  |
| Prepaids and supplies           | 12,564           | 4,607   | 40,147           |
| Accounts receivable             | 2,642            | -1,014  | -3,310           |
| Hedging accounts                | 19,588           | -3,806  | 109,418          |
| Other current assets            | -75              | -349    | -27              |
| Crops and feed                  | 113,980          | 3,363   | 364,260          |
| Marketlivestock                 | 7,415            | 3,139   | 34,929           |
| Breeding livestock              | -609             | -1,321  | -1,857           |
| Other assets                    | 8,545            | -363    | 25,947           |
| Accounts payable                | -7,514           | 804     | -25,291          |
| Accrued interest                | 673              | -9      | 2,706            |
| Total inventory change          | 157,209          | 5,050   | 546,920          |
| Net operating profit            | 432,709          | 133,402 | 977,017          |
| Depreciation                    |                  |         |                  |
| Machinery and equipment         | -45,730          | -22,827 | -87,571          |
| Titled vehicles                 | -3,639           | -2,844  | -8,077           |
| Buildings and improvements      | -16,716          | -8,711  | -19,369          |
| Total depreciation              | -66,085          | -34,382 | -115,017         |
|                                 | 22,200           | J .,JJL | . 10,011         |
| Net farm income from operations | 366,624          | 99,020  | 862,000          |
| Gain or loss on capital sales   | 10,447           | 424     | 33,798           |
| Cam. or 1000 or ouplier outdo   | 10,771           | 7∠7     | 30,730           |
| Net farm income                 | 377,071          | 99,444  | 895,799          |
|                                 | ,                | ,       | ,. 30            |

### Profitability Measures Southwest Minnesota Farm Business Management Association (Farms Sorted By Net Farm Income)

|  | Avg. Of<br>All Farms  | Low 20%  | High 20%  |
|--|---|--|---|
| Number of farms  | 110   | 22   | 22  |
| Profitability (assets valued at cost)  |   |  |   |
| Net farm income from operations  | 366,624   | 99,020   | 862,000   |
| Rate of return on assets   | 13.9 %  | 8.5 %  | 16.3 %  |
| Rate of return on equity   | 18.6 %  | 10.9 %   | 22.2 %  |
| Operating profit margin  | 30.2 %  | 19.7 %   | 31.9 %  |
| Asset turnover rate  | 46.0 %  | 43.3 %   | 51.2 %  |
| Farm interest expense  | 26,468  | 13,281   | 48,292  |
| Value of operator lbr and mgmt.  | 75,374  | 38,602   | 143,029   |
| Return on farm assets  | 317,718   | 73,700   | 767,263   |
| Average farm assets  | 2,286,837   | 866,265  | 4,703,883   |
| Return on farm equity  | 291,250   | 60,419   | 718,971   |
| Average farm equity  | 1,565,946   | 554,006  | 3,231,362   |
| Value of farm production   | 1,052,663   | 374,862  | 2,407,752   |
|  |   |  |   |
|  | Ava Of  |  |   |
|  | Avg. Of<br>All Farms  | Low 20%  | High 20%  |
| Number of farms  | •   | <b>Low 20%</b><br>22   | High 20%  |
|  | All Farms   |  |   |
| Profitability (assets valued at market)  | <b>All Farms</b> 110  | 22   | 22  |
| Profitability (assets valued at market) Net farm income from operations  | All Farms 110 548,428   | 130,222  | 1,032,863   |
| Profitability (assets valued at market) Net farm income from operations Rate of return on assets   | All Farms  110  548,428 15.8 %  | 130,222<br>9.1 %   | 1,032,863<br>16.2 %   |
| Profitability (assets valued at market) Net farm income from operations Rate of return on assets Rate of return on equity  | All Farms  110  548,428  15.8 %  23.9 %   | 130,222<br>9.1 %<br>13.3 %   | 1,032,863<br>16.2 %<br>24.7 %   |
| Profitability (assets valued at market) Net farm income from operations Rate of return on assets Rate of return on equity Operating profit margin  | 110 548,428 15.8 % 23.9 % 47.5 %  | 130,222<br>9.1 %<br>13.3 %<br>28.0 %   | 1,032,863<br>16.2 %<br>24.7 %<br>39.0 %   |
| Profitability (assets valued at market) Net farm income from operations Rate of return on assets Rate of return on equity  | All Farms  110  548,428  15.8 %  23.9 %   | 130,222<br>9.1 %<br>13.3 %   | 1,032,863<br>16.2 %<br>24.7 %   |
| Profitability (assets valued at market) Net farm income from operations Rate of return on assets Rate of return on equity Operating profit margin  | 110 548,428 15.8 % 23.9 % 47.5 %  | 130,222<br>9.1 %<br>13.3 %<br>28.0 %   | 1,032,863<br>16.2 %<br>24.7 %<br>39.0 %   |
| Profitability (assets valued at market) Net farm income from operations Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate  | 548,428<br>15.8 %<br>23.9 %<br>47.5 %<br>33.3 %                                   | 22<br>130,222<br>9.1 %<br>13.3 %<br>28.0 %<br>32.7 %   | 1,032,863<br>16.2 %<br>24.7 %<br>39.0 %<br>41.5 %   |
| Profitability (assets valued at market) Net farm income from operations Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate Farm interest expense  | 548,428<br>15.8 %<br>23.9 %<br>47.5 %<br>33.3 %                                   | 22<br>130,222<br>9.1 %<br>13.3 %<br>28.0 %<br>32.7 %   | 1,032,863<br>16.2 %<br>24.7 %<br>39.0 %<br>41.5 %   |
| Profitability (assets valued at market) Net farm income from operations Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate  Farm interest expense Value of operator lbr and mgmt.   | 110 548,428 15.8 % 23.9 % 47.5 % 33.3 % 26,468 75,374                             | 22<br>130,222<br>9.1 %<br>13.3 %<br>28.0 %<br>32.7 %<br>13,281<br>38,602                             | 1,032,863<br>16.2 %<br>24.7 %<br>39.0 %<br>41.5 %<br>48,292<br>143,029                                    |
| Profitability (assets valued at market) Net farm income from operations Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate  Farm interest expense Value of operator lbr and mgmt. Return on farm assets   | 548,428<br>15.8 %<br>23.9 %<br>47.5 %<br>33.3 %<br>26,468<br>75,374<br>499,522    | 130,222<br>9.1 %<br>13.3 %<br>28.0 %<br>32.7 %<br>13,281<br>38,602<br>104,902                        | 1,032,863<br>16.2 %<br>24.7 %<br>39.0 %<br>41.5 %<br>48,292<br>143,029<br>938,126                         |
| Profitability (assets valued at market) Net farm income from operations Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate  Farm interest expense Value of operator lbr and mgmt. Return on farm assets Average farm assets                       | 110  548,428 15.8 % 23.9 % 47.5 % 33.3 %  26,468 75,374 499,522 3,158,408         | 130,222<br>9.1 %<br>13.3 %<br>28.0 %<br>32.7 %<br>13,281<br>38,602<br>104,902<br>1,147,005           | 1,032,863<br>16.2 %<br>24.7 %<br>39.0 %<br>41.5 %<br>48,292<br>143,029<br>938,126<br>5,806,038            |
| Profitability (assets valued at market) Net farm income from operations Rate of return on assets Rate of return on equity Operating profit margin Asset turnover rate  Farm interest expense Value of operator lbr and mgmt. Return on farm assets Average farm assets Return on farm equity | 110  548,428 15.8 % 23.9 % 47.5 % 33.3 %  26,468 75,374 499,522 3,158,408 473,054 | 130,222<br>9.1 %<br>13.3 %<br>28.0 %<br>32.7 %<br>13,281<br>38,602<br>104,902<br>1,147,005<br>91,621 | 1,032,863<br>16.2 %<br>24.7 %<br>39.0 %<br>41.5 %<br>48,292<br>143,029<br>938,126<br>5,806,038<br>889,834 |

# Liquidity & Repayment Capacity Measures Southwest Minnesota Farm Business Management Association (Farms Sorted By Net Farm Income)

|                                 | Avg. Of All Farms | Low 20% | High 20%  |
|---------------------------------|-------------------|---------|-----------|
| Number of farms                 | 110               | 22      | 22        |
| Liquidity                       |                   |         |           |
| Current ratio                   | 3.12              | 2.54    | 3.04      |
| Working capital                 | 771,719           | 205,138 | 1,837,950 |
| Working capital to gross inc    | 52.0 %            | 51.6 %  | 47.2 %    |
| Current assets                  | 1,136,463         | 338,649 | 2,739,613 |
| Current liabilities             | 364,744           | 133,510 | 901,662   |
| Gross revenues (accrual)        | 1,483,990         | 397,195 | 3,895,088 |
| Repayment capacity              |                   |         |           |
| Net farm income from operations | 366,624           | 99,020  | 862,000   |
| Depreciation                    | 66,085            | 34,382  | 115,017   |
| Personal income                 | 30,841            | 39,142  | 17,123    |
| Family living/owner withdrawals | -89,387           | -54,572 | -172,167  |
| Payments on personal debt       | -2,570            | -4,379  | -177      |
| Income taxes paid               | -21,791           | -11,693 | -29,798   |
| Interest on term debt           | 21,118            | 8,595   | 41,910    |
| Capital debt repayment capacity | 370,921           | 110,496 | 833,907   |
| Scheduled term debt payments    | -80,187           | -36,362 | -132,314  |
| Capital debt repayment margin   | 290,734           | 74,134  | 701,593   |
| Cash replacement allowance      | -29,578           | -15,857 | -42,866   |
| Replacement margin              | 261,156           | 58,277  | 658,727   |
| Term debt coverage ratio        | 4.63              | 3.04    | 6.30      |
| Replacement coverage ratio      | 3.38              | 2.12    | 4.76      |

### Balance Sheet at Cost Values Southwest Minnesota Farm Business Management Association (Farms Sorted By Net Farm Income)

|  | Avg.<br>All Fa |                 | Low       | 20%            | High      | 20%             |
|--|----------------|-----------------|-----------|----------------|-----------|-----------------|
| Number of farms                                  |                | 110             |           | 22             |           | 22              |
|  | Beginning      | Ending          | Beginning | Ending         | Beginning | Ending          |
| Assets   | <del></del>    |                 |           |                |           |                 |
| Current Farm Assets                              |                |                 |           |                |           |                 |
| Cash and checking balance                        | 74,594         | 75,204          | 41,254    | 49,690         | 238,195   | 192,425         |
| Prepaid expenses & supplies                      | 119,558        | 132,122         | 54,338    | 58,945         | 211,054   | 251,201         |
| Growing crops                                    | 5              | 20              | 0         | 98             | 27        | 0               |
| Accounts receivable                              | 31,516         | 34,159          | 2,649     | 1,635          | 100,707   | 97,396          |
| Hedging accounts                                 | 15,799         | 14,378          | 1,196     | 1,072          | 71,701    | 58,038          |
| Crops held for sale or feed                      | 567,212        | 660,271         | 187,235   | 185,140        | 1,174,411 | 1,423,338       |
| Crops under government loan                      | 42,606         | 64,857          | 6,338     | 10,502         | 148,205   | 268,038         |
| Market livestock held for sale                   | 148,038        | 155,453         | 28,428    | 31,567         | 414,247   | 449,175         |
| Other current assets                             | 90             | 0               | 448       | 0              | 0         | 0               |
| Total current farm assets                        | 999,418        | 1,136,463       | 321,885   | 338,649        | 2,358,547 | 2,739,613       |
| Intermediate Farm Assets                         |                |                 |           |                |           |                 |
| Breeding livestock                               | 6,221          | 9,671           | 3,991     | 9,135          | 6,886     | 17,080          |
| Machinery and equipment                          | 361,360        | 422,959         | 188,886   | 208,368        | 610,940   | 774,919         |
| Titled vehicles                                  | 18,058         | 21,629          | 11,863    | 15,769         | 32,705    | 35,839          |
| Other intermediate assets                        | 58,148         | 67,650          | 3,539     | 3,969          | 223,096   | 255,638         |
| Total intermediate farm assets                   | 443,787        | 521,909         | 208,280   | 237,241        | 873,626   | 1,083,476       |
| Long Term Farm Assets                            |                |                 |           |                |           |                 |
| Farmland   | 388,950        | 472,270         | 114,857   | 150,243        | 596,632   | 902,141         |
| Buildings and improvements                       | 245,598        | 293,543         | 156,027   | 183,901        | 340,512   | 389,206         |
| Other long-term assets                           | 49,701         | 51,579          | 11,757    | 10,985         | 131,566   | 135,437         |
| Total long-term farm assets                      | 684,249        | 817,392         | 282,641   | 345,129        | 1,068,711 | 1,426,783       |
| Total Farm Assets                                | 2,127,454      | 2,475,765       | 812,805   | 921,019        | 4,300,884 | 5,249,872       |
| Total Nonfarm Assets                             | 219,210        | 246,820         | 154,344   | 167,300        | 142,901   | 205,710         |
| Total Assets                                     | 2,346,665      | 2,722,585       | 967,149   | 1,088,319      | 4,443,785 | 5,455,581       |
| Liabilities Current Form Liabilities             |                |                 |           |                |           |                 |
| Current Farm Liabilities                         | 7.450          | 0.704           | 0.000     | 0.074          | 40.400    | 40.700          |
| Accrued interest                                 | 7,452          | 6,794           | 3,966     | 3,974          | 13,428    | 10,793          |
| Accounts payable                                 | 18,280         | 25,794          | 8,652     | 7,848          | 54,424    | 79,716          |
| Current notes                                    | 224,043        | 255,552         | 87,405    | 85,817         | 496,376   | 633,292         |
| Government crop loans                            | 19,584         | 19,323          | 2,132     | 3,054          | 78,243    | 81,774          |
| Principal due on term debt                       | 59,069         | 57,281          | 27,766    | 32,818         | 90,405    | 96,088          |
| Total current farm liabilities                   | 328,428        | 364,744         | 129,921   | 133,510        | 732,877   | 901,662         |
| Total intermediate farm liabs                    | 99,536         | 101,639         | 53,483    | 55,054         | 206,447   | 180,539         |
| Total long term farm liabilities                 | 266,350        | 310,630         | 106,270   | 147,573        | 465,909   | 600,598         |
| Total farm liabilities                           | 694,315        | 777,013         | 289,674   | 336,138        | 1,405,233 | 1,682,799       |
| Total nonfarm liabilities                        | 54,847         | 65,505          | 58,375    | 65,169         | 67,862    | 94,061          |
| Total liabilities                                | 749,161        | 842,517         | 348,049   | 401,307        | 1,473,095 | 1,776,860       |
| Net worth (farm and nonfarm)                     | 1,597,503      | 1,880,068       | 619,100   | 687,012        | 2,970,690 | 3,678,721       |
| Net worth change Percent net worth change        |                | 282,564<br>18 % |           | 67,912<br>11 % |           | 708,031<br>24 % |
| Ç  |                | . 3 70          |           | , ,            |           | 21,70           |
| Ratio Analysis Current farm liabilities / assets | 33 %           | 32 %            | 40 %      | 39 %           | 31 %      | 33 %            |
| Intermediate farm liab. / assets                 | 22 %           | 19 %            | 26 %      | 23 %           | 24 %      | 17 %            |
| Long term farm liab. / assets                    | 39 %           | 38 %            | 38 %      | 43 %           | 44 %      | 42 %            |
| Total debt to asset ratio                        | 32 %           | 31 %            | 36 %      | 37 %           | 33 %      | 33 %            |
| i otal dobt to asset latio                       | JZ /0          | J1 /0           | JU /0     | J1 /0          | JJ /0     | JJ /0           |

# Balance Sheet at Market Values Southwest Minnesota Farm Business Management Association (Farms Sorted By Net Farm Income)

|   | Avg.<br>All Fa       |                      | Low                | 20%                | High                 | 20%                  |
|---|----------------------|----------------------|--------------------|--------------------|----------------------|----------------------|
| Number of farms                                   |                      | 110                  |                    | 22                 |                      | 22                   |
|   | Beginning            | Ending               | Beginning          | Ending             | Beginning            | Ending               |
| Assets  |                      |                      | <u> </u>           |                    |                      |                      |
| Current Farm Assets                               |                      |                      |                    |                    |                      |                      |
| Cash and checking balance                         | 74,594               | 75,204               | 41,254             | 49,690             | 238,195              | 192,425              |
| Prepaid expenses & supplies                       | 119,558              | 132,122              | 54,338             | 58,945             | 211,054              | 251,201              |
| Growing crops                                     | 5                    | 20                   | 0                  | 98                 | 27                   | 0                    |
| Accounts receivable                               | 31,516               | 34,159               | 2,649              | 1,635              | 100,707              | 97,396               |
| Hedging accounts                                  | 15,799               | 14,378               | 1,196              | 1,072              | 71,701               | 58,038               |
| Crops held for sale or feed                       | 567,212              | 660,271              | 187,235            | 185,140            | 1,174,411            | 1,423,338            |
| Crops under government loan                       | 42,606               | 64,857               | 6,338              | 10,502             | 148,205              | 268,038              |
| Market livestock held for sale                    | 148,038              | 155,453              | 28,428             | 31,567             | 414,247              | 449,175              |
| Other current assets                              | 90                   | 0                    | 448                | 0                  | 0                    | 0                    |
| Total current farm assets                         | 999,418              | 1,136,463            | 321,885            | 338,649            | 2,358,547            | 2,739,613            |
| Intermediate Farm Assets                          | 00.750               | 07.004               | 40.707             | 40.050             | 40.000               | 05.400               |
| Breeding livestock                                | 36,753               | 37,334               | 13,787             | 18,653             | 46,098               | 35,122               |
| Machinery and equipment                           | 530,572              | 621,995              | 285,789            | 320,000            | 852,548              | 1,073,392            |
| Titled vehicles                                   | 28,124               | 32,665               | 15,457             | 20,298             | 44,470               | 50,572               |
| Other intermediate assets                         | 60,623               | 69,125               | 3,743              | 4,173              | 229,019              | 257,155              |
| Total intermediate farm assets                    | 656,073              | 761,119              | 318,776            | 363,124            | 1,172,135            | 1,416,241            |
| Long Term Farm Assets                             | 706 422              | 1 100 991            | 224 245            | 200 600            | 1.040.041            | 4 642 222            |
| Farmland  | 786,433<br>354,112   | 1,109,881<br>413,834 | 224,215<br>194,580 | 280,608<br>230,886 | 1,040,041<br>486,577 | 1,613,223<br>548,369 |
| Buildings and improvements Other long-term assets | 59,005               | 70,024               | 194,580            | 10,904             | 164,564              | 215,756              |
| Total long-term farm assets                       | 1,199,550            | 1,593,740            | 430,472            | 522,398            | 1,691,183            | 2,377,348            |
| Total Farm Assets                                 | 2,855,041            | 3,491,321            | 1,071,133          | 1,224,170          | 5,221,865            | 6,533,202            |
| Total Nonfarm Assets                              | 271,008              | 308,464              | 185,817            | 197,270            | 186,438              | 270,569              |
| Total Assets                                      | 3,126,049            | 3,799,785            | 1,256,950          | 1,421,440          | 5,408,304            | 6,803,770            |
| Liabilities                                       |                      |                      |                    |                    |                      |                      |
| Current Farm Liabilities                          |                      |                      |                    |                    |                      |                      |
| Accrued interest                                  | 7,452                | 6,794                | 3,966              | 3,974              | 13,428               | 10,793               |
| Accounts payable                                  | 18,280               | 25,794               | 8,652              | 7,848              | 54,424               | 79,716               |
| Current notes                                     | 224,043              | 255,552              | 87,405             | 85,817             | 496,376              | 633,292              |
| Government crop loans                             | 19,584               | 19,323               | 2,132              | 3,054              | 78,243               | 81,774               |
| Principal due on term debt                        | 59,069               | 57,281               | 27,766             | 32,818             | 90,405               | 96,088               |
| Total current farm liabilities                    | 328,428              | 364,744              | 129,921            | 133,510            | 732,877              | 901,662              |
| Total intermediate farm liabs                     | 99,536               | 101,639              | 53,483             | 55,054             | 206,447              | 180,539              |
| Total long term farm liabilities                  | 266,350              | 310,630              | 106,270            | 147,573            | 465,909              | 600,598              |
| Total farm liabilities                            | 694,315              | 777,013              | 289,674            | 336,138            | 1,405,233            | 1,682,799            |
| Total nonfarm liabilities                         | 54,847               | 65,505               | 58,375             | 65,169             | 67,862               | 94,061               |
| Total liabs excluding deferreds                   | 749,161              | 842,517              | 348,049            | 401,307            | 1,473,095            | 1,776,860            |
| Total deferred liabilities Total liabilities      | 410,908<br>1,160,069 | 519,300<br>1,361,818 | 143,567<br>491,616 | 156,743<br>558,050 | 637,237<br>2,110,332 | 834,572<br>2,611,433 |
|   |                      |                      |                    |                    |                      |                      |
| Retained earnings                                 | 1,597,503            | 1,880,068            | 619,100            | 687,012            | 2,970,690            | 3,678,721            |
| Market valuation equity                           | 368,476              | 557,900              | 146,234            | 176,378            | 327,282              | 513,617              |
| Net worth (farm and nonfarm)                      | 1,965,979            | 2,437,968            | 765,334            | 863,390            | 3,297,971            | 4,192,338            |
| Net worth excluding deferreds                     | 2,376,887            | 2,957,268            | 908,901            | 1,020,133          | 3,935,208            | 5,026,910            |
| Net worth change Percent net worth change         |                      | 471,988<br>24 %      |                    | 98,056<br>13 %     |                      | 894,366<br>27 %      |
| Ratio Analysis                                    |                      |                      |                    |                    |                      |                      |
| Current farm liabilities / assets                 | 33 %                 | 32 %                 | 40 %               | 39 %               | 31 %                 | 33 %                 |
| Intermediate farm liab. / assets                  | 15 %                 | 13 %                 | 17 %               | 15 %               | 18 %                 | 13 %                 |
| Long term farm liab. / assets                     | 22 %                 | 19 %                 | 25 %               | 28 %               | 28 %                 | 25 %                 |
| Total debt to asset ratio                         | 37 %                 | 36 %                 | 39 %               | 39 %               | 39 %                 | 38 %                 |
| Debt to assets excl deferreds                     | 24 %                 | 22 %                 | 28 %               | 28 %               | 27 %                 | 26 %                 |

# Statement Of Cash Flows Southwest Minnesota Farm Business Management Association (Farms Sorted By Net Farm Income)

|                                       | Avg. Of<br>All Farms | Low 20%  | High 20%   |
|---------------------------------------|----------------------|----------|------------|
| Number of farms                       | 110                  | 22       | 22         |
| Beginning cash (farm & nonfarm)       | 86,575               | 45,913   | 238,800    |
| Cash Provided By Operating Activities |                      |          |            |
| Gross cash farm income                | 1,332,519            | 397,646  | 3,365,702  |
| Total cash farm expense               | -1,057,018           | -269,293 | -2,935,605 |
| Net cash from hedging transactions    | 21,009               | -3,682   | 123,081    |
| Cash provided by operating            | 296,510              | 124,670  | 553,178    |
| Cash Provided By Investing Activities |                      |          |            |
| Sale of breeding livestock            | 7,040                | 1,045    | 32,355     |
| Sale of machinery & equipment         | 9,808                | 7,127    | 16,166     |
| Sale of titled vehicles               | 602                  | 1,554    | -          |
| Sale of farm land                     | 4,074                | 23       | 111        |
| Sale of farm buildings                | -                    | -        | -          |
| Sale of other farm assets             | 2,547                | -        | 2,495      |
| Sale of nonfarm assets                | 3,358                | 1,598    | -          |
| Purchase of breeding livestock        | -4,759               | -7,394   | -12,820    |
| Purchase of machinery & equip.        | -114,603             | -49,066  | -265,505   |
| Purchase of titled vehicles           | -7,800               | -8,366   | -11,211    |
| Purchase of farm land                 | -93,160              | -35,409  | -304,477   |
| Purchase of farm buildings            | -64,661              | -36,586  | -68,062    |
| Purchase of other farm assets         | -5,382               | -21      | -12,962    |
| Purchase of nonfarm assets            | -29,430              | -14,861  | -59,440    |
| Cash provided by investing            | -292,366             | -140,355 | -683,349   |
| Cash Provided By Financing Activities |                      |          |            |
| Money borrowed                        | 647,151              | 222,190  | 1,784,914  |
| Principal payments                    | -571,624             | -173,396 | -1,524,724 |
| Personal income                       | 30,841               | 39,142   | 17,123     |
| Family living/owner withdrawals       | -89,351              | -54,572  | -172,167   |
| Income and social security tax        | -21,791              | -11,693  | -29,798    |
| Capital contributions                 | 1,005                | -        | 5,023      |
| Capital distributions                 | -7,245               | -        | -          |
| Dividends paid                        | -36                  | -        | -          |
| Cash gifts and inheritances           | 2,541                | 2,928    | 4,103      |
| Gifts given                           | -528                 | -729     | -366       |
| Other cash flows                      | -                    | -        | -          |
| Cash provided by financing            | -9,038               | 23,870   | 84,107     |
| Net change in cash balance            | -4,894               | 8,185    | -46,064    |
| Ending cash (farm & nonfarm)          | 81,681               | 54,098   | 192,736    |

### Crop Production and Marketing Summary Southwest Minnesota Farm Business Management Association (Farms Sorted By Net Farm Income)

|                                      | Avg. Of   |          |          |
|--------------------------------------|-----------|----------|----------|
|                                      | All Farms | Low 20%  | High 20% |
| Number of farms                      | 110       | 22       | 22       |
| Acreage Summary                      |           |          |          |
| Total acres owned                    | 216       | 82       | 301      |
| Total crop acres                     | 886       | 411      | 1,868    |
| Crop acres owned                     | 205       | 70       | 286      |
| Crop acres cash rented               | 617       | 292      | 1,480    |
| Crop acres share rented              | 63        | 49       | 102      |
| Total pasture acres                  | 7         | 8        | 16       |
| Percent crop acres owned             | 23 %      | 17 %     | 15 %     |
| Mach invest/crop acre cost           | 441       | 478      | 359      |
| Mach invest/crop acre market         | 648       | 719      | 501      |
| Average Price Received (Cash Sales C | Only)     |          |          |
| Soybeans per bushel                  | 13.07     | 13.17    | 13.37    |
| Corn per bushel                      | 6.27      | 5.99     | 6.54     |
| Hay, Alfalfa per ton                 | 106.13    | -        | -        |
| Hay, Grass per ton                   | 77.14     | -        | -        |
| Corn Silage per ton                  | 41.31     | -        | -        |
| Wheat, Spring per bushel             | 8.98      | -        | -        |
| Average Yield Per Acre               |           |          |          |
| Corn (bushel)                        | 162.05    | 161.02   | 162.87   |
| Soybeans (bushel)                    | 47.13     | 44.64    | 46.31    |
| Hay, Alfalfa (ton)                   | 3.15      | -        | 2.98     |
| Corn Silage (ton)                    | 21.01     | _        | 21.10    |
| Hay, Grass (ton)                     | 1.60      | 2.10     | 210      |
| Wheat, Spring (bushel)               | 43.98     | -        |          |
| Sweet Corn, Processing (ton)         | 6.77      | <u>-</u> |          |
| 2 2 2                                | <b></b> . |          |          |

### Household and Personal Expenses Southwest Minnesota Farm Business Management Association (Farms Sorted By Net Farm Income)

| Air Farms         Low 20%         High 20%           Number of farms         42         9         6           Average family size         2.9         2.9         2.9           Family Living Expenses         9,077         7,699         9,280           Medical care         7,580         12,736         5,308           Medical care         7,580         12,736         5,308           Health insurance         5,884         7,214         2,791           Cash donations         4,877         2,959         2,976           Household supplies         9,018         7,078         12,670           Clothing         3,766         2,602         4,602           Personal care         2,065         847         510           Child / Dependent care         146         -         -           Alimony and child support         -         -         -           Gifts         2,927         1,156         2,220           Education         1,916         3,531         1,334           Recreation         5,453         2,474         5,062           Utilities (household share)         3,260         3,812         2,760           Personal vehicle operat  |   | Avg. Of   | L 000/  | U:k-000/ |
|--|---|-----------|---------|----------|
| Pamily Living Expenses   |   | All Farms | Low 20% | High 20% |
| Family Living Expenses Food and meals expense Medical care 7,580 12,736 5,308 Health insurance 5,884 7,214 2,791 Cash donations 4,877 2,959 2,976 Household supplies 9,018 7,078 12,670 Clothing 3,706 2,602 4,602 Personal care 2,065 847 510 Child / Dependent care 146 - Alimony and child support - Gifts 2,927 1,156 2,320 Education 1,916 3,531 1,334 Recreation 1,916 3,531 1,334 Recreation 1,916 3,531 1,334 Recreation 1,916 1,916 3,531 1,334 Recreation 1,916 1,91 | Number of farms                         | 42        | 9       | 6        |
| Food and meals expense         9,077         7,699         9,280           Medical care         7,580         12,736         5,308           Health insurance         5,884         7,214         2,791           Cash donations         4,877         2,959         2,976           Household supplies         9,018         7,078         12,670           Clothing         3,706         2,602         4,602           Personal care         2,065         847         510           Child / Dependent care         146         -         -           Alimony and child support         -         -         -           Gifts         2,927         1,156         2,320           Education         1,916         3,531         1,334           Recreation         1,916         3,531         1,334           Recreation         5,453         2,474         5,062           Utilities (household share)         3,260         3,812         2,760           Personal vehicle operating exp         5,123         5,757         3,179           Household real estate taxes         532         688         582           Dwelling rent         -         -         -         -  | Average family size                     | 2.9       | 2.9     | 2.3      |
| Food and meals expense         9,077         7,699         9,280           Medical care         7,580         12,736         5,308           Health insurance         5,884         7,214         2,791           Cash donations         4,877         2,959         2,976           Household supplies         9,018         7,078         12,670           Clothing         3,706         2,602         4,602           Personal care         2,065         847         510           Child / Dependent care         146         -         -           Alimony and child support         -         -         -           Gifts         2,927         1,156         2,320           Education         1,916         3,531         1,334           Recreation         5,453         2,474         5,062           Utilities (household share)         3,260         3,812         2,760           Personal vehicle operating exp         5,123         5,757         3,179           Household real estate taxes         532         688         582           Dwelling rent         -         -         -         -           Household repairs         2,785         1,647 <t< td=""><td>Family Living Expenses</td><td></td><td></td><td></td></t<>   | Family Living Expenses                  |           |         |          |
| Medical care         7,580         12,736         5,308           Health insurance         5,884         7,214         2,791           Cash donations         4,877         2,959         2,976           Household supplies         9,018         7,078         12,670           Clothing         3,706         2,602         4,602           Personal care         2,065         847         510           Child / Dependent care         146         -         -           Alimony and child support         -         -         -           Gifts         2,927         1,156         2,320           Education         1,916         3,531         1,334           Recreation         5,453         2,474         5,062           Utilities (household share)         3,260         3,812         2,760           Personal vehicle operating exp         5,123         5,757         3,179           Household real estate taxes         532         688         582           Dwelling rent         -         -         -         -           Household repairs         2,785         1,647         2,629           Personal interest         1,809         2,970         1,1  |   | 9.077     | 7.699   | 9.280    |
| Health insurance   | ·                                       |           |         |          |
| Cash donations         4,877         2,959         2,976           Household supplies         9,018         7,078         12,670           Clothing         3,706         2,602         4,602           Personal care         2,065         847         510           Child / Dependent care         146         -         -           Alimony and child support         -         -         -           Gifts         2,927         1,156         2,320           Education         1,916         3,531         1,334           Recreation         5,453         2,474         5,062           Utilities (household share)         3,260         3,812         2,760           Personal vehicle operating exp         5,123         5,757         3,179           Household real estate taxes         532         688         582           Dwelling rent         -         -         -           Household repairs         2,785         1,647         2,629           Personal interest         1,809         2,970         1,165           Disability / Long term care ins         564         -         954           Life insurance payments         2,815         1,816         2,529   |   |           |         |          |
| Household supplies   |   |           |         |          |
| Clothing         3,706         2,602         4,602           Personal care         2,065         847         510           Child / Dependent care         146         -         -           Alimony and child support         -         -         -           Gifts         2,927         1,156         2,320           Education         1,916         3,531         1,334           Recreation         5,453         2,474         5,062           Utilities (household share)         3,260         3,812         2,760           Personal vehicle operating exp         5,123         5,757         3,179           Household real estate taxes         532         688         582           Dwelling rent         -         -         -         -           Household repairs         2,785         1,647         2,629           Personal interest         1,809         2,970         1,165           Disability / Long term care ins         564         -         954           Life insurance payments         2,815         1,816         2,529           Personal property insurance         475         372         397           Miscellaneous         2,907         1,600 <td></td> <td></td> <td></td> <td></td>  |   |           |         |          |
| Personal care         2,065         847         510           Child / Dependent care         146         -         -           Alimony and child support         -         -         -           Gifts         2,927         1,156         2,320           Education         1,916         3,531         1,334           Recreation         5,453         2,474         5,062           Utilities (household share)         3,260         3,812         2,760           Personal vehicle operating exp         5,123         5,757         3,179           Household real estate taxes         532         688         582           Dwelling rent         -         -         -           Household repairs         2,785         1,647         2,629           Personal interest         1,809         2,970         1,165           Disability / Long term care ins         564         -         954           Life insurance payments         2,815         1,816         2,529           Personal property insurance         475         372         397           Miscellaneous         2,907         1,600         979           Total cash family living expense         72,918         66,9  | • •                                     |           |         |          |
| Child / Dependent care         146         - <td><u> </u></td> <td></td> <td></td> <td></td>   | <u> </u>                                |           |         |          |
| Alimony and child support Gifts 2,927 1,156 2,320 Education 1,916 3,531 1,334 Recreation 5,453 2,474 5,062 Utilities (household share) 3,260 3,812 2,760 Personal vehicle operating exp 5,123 5,757 3,179 Household real estate taxes 532 688 582 Dwelling rent  |   |           | -       | -        |
| Gifts         2,927         1,156         2,320           Education         1,916         3,531         1,334           Recreation         5,453         2,474         5,062           Utilities (household share)         3,260         3,812         2,760           Personal vehicle operating exp         5,123         5,757         3,179           Household real estate taxes         532         688         582           Dwelling rent         -         -         -           Household repairs         2,785         1,647         2,629           Personal interest         1,809         2,970         1,165           Disability / Long term care ins         564         -         954           Life insurance payments         2,815         1,816         2,529           Personal property insurance         475         372         397           Miscellaneous         2,907         1,600         979           Total cash family living expense         72,918         66,958         62,025           Family living from the farm         986         486         -           Total family living         73,904         67,444         62,025           Other Nonfarm Expenditures  | •                                       | -         | -       | -        |
| Education         1,916         3,531         1,334           Recreation         5,453         2,474         5,062           Utilities (household share)         3,260         3,812         2,760           Personal vehicle operating exp         5,123         5,757         3,179           Household real estate taxes         532         688         582           Dwelling rent         -         -         -           Household repairs         2,785         1,647         2,629           Personal interest         1,809         2,970         1,165           Disability / Long term care ins         564         -         954           Life insurance payments         2,815         1,816         2,529           Personal property insurance         475         372         397           Miscellaneous         2,907         1,600         979           Total cash family living expense         72,918         66,958         62,025           Family living from the farm         986         486         -           Total family living         73,904         67,444         62,025           Other Nonfarm Expenditures         1,033         249         1,646           Nonfarm real esta  | • | 2.927     | 1.156   | 2.320    |
| Recreation         5,453         2,474         5,062           Utilities (household share)         3,260         3,812         2,760           Personal vehicle operating exp         5,123         5,757         3,179           Household real estate taxes         532         688         582           Dwelling rent         -         -         -           Household repairs         2,785         1,647         2,629           Personal interest         1,809         2,970         1,165           Disability / Long term care ins         564         -         954           Life insurance payments         2,815         1,816         2,529           Personal property insurance         475         372         397           Miscellaneous         2,907         1,600         979           Total cash family living expense         72,918         66,958         62,025           Family living from the farm         986         486         -           Total family living         73,904         67,444         62,025           Other Nonfarm Expenditures         1,033         249         1,646           Nonfarm vehicle purchases         7,487         8,237         2,794           N  |   |           |         |          |
| Utilities (household share)         3,260         3,812         2,760           Personal vehicle operating exp         5,123         5,757         3,179           Household real estate taxes         532         688         582           Dwelling rent         -         -         -           Household repairs         2,785         1,647         2,629           Personal interest         1,809         2,970         1,165           Disability / Long term care ins         564         -         954           Life insurance payments         2,815         1,816         2,529           Personal property insurance         475         372         397           Miscellaneous         2,907         1,600         979           Total cash family living expense         72,918         66,958         62,025           Family living from the farm         986         486         -           Total family living         73,904         67,444         62,025           Other Nonfarm Expenditures         28,949         14,277         34,476           Furnishing & appliance purchases         1,033         249         1,646           Nonfarm real estate purchases         7,487         8,237         2,794   |   |           |         |          |
| Personal vehicle operating exp         5,123         5,757         3,179           Household real estate taxes         532         688         582           Dwelling rent         -         -         -           Household repairs         2,785         1,647         2,629           Personal interest         1,809         2,970         1,165           Disability / Long term care ins         564         -         954           Life insurance payments         2,815         1,816         2,529           Personal property insurance         475         372         397           Miscellaneous         2,907         1,600         979           Total cash family living expense         72,918         66,958         62,025           Family living from the farm         986         486         -           Total family living         73,904         67,444         62,025           Other Nonfarm Expenditures           Income taxes         28,949         14,277         34,476           Furnishing & appliance purchases         1,033         249         1,646           Nonfarm real estate purchases         7,487         8,237         2,794           Nonfarm capital purchases         1  |   |           |         |          |
| Household real estate taxes         532         688         582           Dwelling rent         -         -         -           Household repairs         2,785         1,647         2,629           Personal interest         1,809         2,970         1,165           Disability / Long term care ins         564         -         954           Life insurance payments         2,815         1,816         2,529           Personal property insurance         475         372         397           Miscellaneous         2,907         1,600         979           Total cash family living expense         72,918         66,958         62,025           Family living from the farm         986         486         -           Total family living         73,904         67,444         62,025           Other Nonfarm Expenditures         1,033         249         1,646           Nonfarm vehicle purchases         1,033         249         1,646           Nonfarm vehicle purchases         7,487         8,237         2,794           Nonfarm capital purchases         5,691         7,633         -           Other nonfarm capital purchases         19,983         1,056         49,677  | ,                                       |           |         |          |
| Dwelling rent         -         -         -           Household repairs         2,785         1,647         2,629           Personal interest         1,809         2,970         1,165           Disability / Long term care ins         564         -         954           Life insurance payments         2,815         1,816         2,529           Personal property insurance         475         372         397           Miscellaneous         2,907         1,600         979           Total cash family living expense         72,918         66,958         62,025           Family living from the farm         986         486         -           Total family living         73,904         67,444         62,025           Other Nonfarm Expenditures           Income taxes         28,949         14,277         34,476           Furnishing & appliance purchases         1,033         249         1,646           Nonfarm vehicle purchases         7,487         8,237         2,794           Nonfarm real estate purchases         5,691         7,633         -           Other nonfarm capital purchases         19,983         1,056         49,677           Nonfarm savings & investments   |   |           |         |          |
| Household repairs   2,785   1,647   2,629     Personal interest   1,809   2,970   1,165     Disability / Long term care ins   564   - 954     Life insurance payments   2,815   1,816   2,529     Personal property insurance   475   372   397     Miscellaneous   2,907   1,600   979     Total cash family living expense   72,918   66,958   62,025     Family living from the farm   986   486   - 10     Total family living   73,904   67,444   62,025     Other Nonfarm Expenditures   1,033   249   1,646     Nonfarm vehicle purchases   7,487   8,237   2,794     Nonfarm real estate purchases   1,933   1,056   49,677     Nonfarm savings & investments   -656   2,469   11,285     Total cash family living   |   | -         | -       | -        |
| Personal interest         1,809         2,970         1,165           Disability / Long term care ins         564         -         954           Life insurance payments         2,815         1,816         2,529           Personal property insurance         475         372         397           Miscellaneous         2,907         1,600         979           Total cash family living expense         72,918         66,958         62,025           Family living from the farm         986         486         -           Total family living         73,904         67,444         62,025           Other Nonfarm Expenditures         1         47,474         62,025           Other Nonfarm Expenditures         1,033         249         1,646           Nonfarm vehicle purchases         7,487         8,237         2,794           Nonfarm real estate purchases         5,691         7,633         -           Other nonfarm capital purchases         19,983         1,056         49,677           Nonfarm savings & investments         -656         2,469         11,285           Total other nonfarm expenditures         62,487         33,921         99,877   | <u> </u>                                | 2 785     | 1 647   | 2 629    |
| Disability / Long term care ins         564         -         954           Life insurance payments         2,815         1,816         2,529           Personal property insurance         475         372         397           Miscellaneous         2,907         1,600         979           Total cash family living expense         72,918         66,958         62,025           Family living from the farm         986         486         -           Total family living         73,904         67,444         62,025           Other Nonfarm Expenditures         1         1         4,277         34,476           Furnishing & appliance purchases         1,033         249         1,646           Nonfarm vehicle purchases         7,487         8,237         2,794           Nonfarm real estate purchases         5,691         7,633         -           Other nonfarm capital purchases         19,983         1,056         49,677           Nonfarm savings & investments         -656         2,469         11,285           Total other nonfarm expenditures         62,487         33,921         99,877  | •                                       |           |         |          |
| Life insurance payments       2,815       1,816       2,529         Personal property insurance       475       372       397         Miscellaneous       2,907       1,600       979         Total cash family living expense       72,918       66,958       62,025         Family living from the farm       986       486       -         Total family living       73,904       67,444       62,025         Other Nonfarm Expenditures         Income taxes       28,949       14,277       34,476         Furnishing & appliance purchases       1,033       249       1,646         Nonfarm vehicle purchases       7,487       8,237       2,794         Nonfarm real estate purchases       5,691       7,633       -         Other nonfarm capital purchases       19,983       1,056       49,677         Nonfarm savings & investments       -656       2,469       11,285         Total other nonfarm expenditures       62,487       33,921       99,877   |   |           | -       |          |
| Personal property insurance         475         372         397           Miscellaneous         2,907         1,600         979           Total cash family living expense         72,918         66,958         62,025           Family living from the farm         986         486         -           Total family living         73,904         67,444         62,025           Other Nonfarm Expenditures         1  | •                                       |           | 1 816   |          |
| Miscellaneous         2,907         1,600         979           Total cash family living expense         72,918         66,958         62,025           Family living from the farm         986         486         -           Total family living         73,904         67,444         62,025           Other Nonfarm Expenditures         28,949         14,277         34,476           Furnishing & appliance purchases         1,033         249         1,646           Nonfarm vehicle purchases         7,487         8,237         2,794           Nonfarm real estate purchases         5,691         7,633         -           Other nonfarm capital purchases         19,983         1,056         49,677           Nonfarm savings & investments         -656         2,469         11,285           Total other nonfarm expenditures         62,487         33,921         99,877  | · ·                                     |           |         |          |
| Total cash family living expense         72,918         66,958         62,025           Family living from the farm         986         486         -           Total family living         73,904         67,444         62,025           Other Nonfarm Expenditures           Income taxes         28,949         14,277         34,476           Furnishing & appliance purchases         1,033         249         1,646           Nonfarm vehicle purchases         7,487         8,237         2,794           Nonfarm real estate purchases         5,691         7,633         -           Other nonfarm capital purchases         19,983         1,056         49,677           Nonfarm savings & investments         -656         2,469         11,285           Total other nonfarm expenditures         62,487         33,921         99,877           Total cash family living         -         -         -         -         -  |   |           |         |          |
| Family living from the farm         986         486         -           Total family living         73,904         67,444         62,025           Other Nonfarm Expenditures         28,949         14,277         34,476           Income taxes         28,949         14,277         34,476           Furnishing & appliance purchases         1,033         249         1,646           Nonfarm vehicle purchases         7,487         8,237         2,794           Nonfarm real estate purchases         5,691         7,633         -           Other nonfarm capital purchases         19,983         1,056         49,677           Nonfarm savings & investments         -656         2,469         11,285           Total other nonfarm expenditures         62,487         33,921         99,877  |   |           |         |          |
| Total family living         73,904         67,444         62,025           Other Nonfarm Expenditures         28,949         14,277         34,476           Income taxes         28,949         14,277         34,476           Furnishing & appliance purchases         1,033         249         1,646           Nonfarm vehicle purchases         7,487         8,237         2,794           Nonfarm real estate purchases         5,691         7,633         -           Other nonfarm capital purchases         19,983         1,056         49,677           Nonfarm savings & investments         -656         2,469         11,285           Total other nonfarm expenditures         62,487         33,921         99,877  |   |           | •       | 02,020   |
| Other Nonfarm Expenditures         Income taxes       28,949       14,277       34,476         Furnishing & appliance purchases       1,033       249       1,646         Nonfarm vehicle purchases       7,487       8,237       2,794         Nonfarm real estate purchases       5,691       7,633       -         Other nonfarm capital purchases       19,983       1,056       49,677         Nonfarm savings & investments       -656       2,469       11,285         Total other nonfarm expenditures       62,487       33,921       99,877  | , ,                                     |           |         | 62 025   |
| Income taxes       28,949       14,277       34,476         Furnishing & appliance purchases       1,033       249       1,646         Nonfarm vehicle purchases       7,487       8,237       2,794         Nonfarm real estate purchases       5,691       7,633       -         Other nonfarm capital purchases       19,983       1,056       49,677         Nonfarm savings & investments       -656       2,469       11,285         Total other nonfarm expenditures       62,487       33,921       99,877   | Total failing living                    | 73,304    | 07,777  | 02,023   |
| Furnishing & appliance purchases 1,033 249 1,646 Nonfarm vehicle purchases 7,487 8,237 2,794 Nonfarm real estate purchases 5,691 7,633 - Other nonfarm capital purchases 19,983 1,056 49,677 Nonfarm savings & investments -656 2,469 11,285 Total other nonfarm expenditures 62,487 33,921 99,877  Total cash family living   | Other Nonfarm Expenditures              |           |         |          |
| Nonfarm vehicle purchases       7,487       8,237       2,794         Nonfarm real estate purchases       5,691       7,633       -         Other nonfarm capital purchases       19,983       1,056       49,677         Nonfarm savings & investments       -656       2,469       11,285         Total other nonfarm expenditures       62,487       33,921       99,877  | Income taxes                            | 28,949    | 14,277  | 34,476   |
| Nonfarm real estate purchases 5,691 7,633 - Other nonfarm capital purchases 19,983 1,056 49,677 Nonfarm savings & investments -656 2,469 11,285 Total other nonfarm expenditures 62,487 33,921 99,877  Total cash family living  | Furnishing & appliance purchases        | 1,033     | 249     | 1,646    |
| Other nonfarm capital purchases 19,983 1,056 49,677 Nonfarm savings & investments -656 2,469 11,285 Total other nonfarm expenditures 62,487 33,921 99,877  Total cash family living  | Nonfarm vehicle purchases               | 7,487     | 8,237   | 2,794    |
| Nonfarm savings & investments -656 2,469 11,285 Total other nonfarm expenditures 62,487 33,921 99,877  Total cash family living  | Nonfarm real estate purchases           | 5,691     | 7,633   | -        |
| Total other nonfarm expenditures 62,487 33,921 99,877  Total cash family living  | Other nonfarm capital purchases         | 19,983    | 1,056   | 49,677   |
| Total cash family living   | Nonfarm savings & investments           | -656      | 2,469   | 11,285   |
|  | Total other nonfarm expenditures        | 62,487    | 33,921  | 99,877   |
|  | Total cash family living                |           |         |          |
|  | • •                                     | 135,406   | 100,879 | 161,902  |

### Operator and Labor Information Southwest Minnesota Farm Business Management Association (Farms Sorted By Net Farm Income)

|                                 | Avg. Of<br>All Farms | Low 20%   | High 20%  |
|---------------------------------|----------------------|-----------|-----------|
|                                 | All I dillis         |           |           |
| Number of farms                 | 110                  | 22        | 22        |
| Operator Information            |                      |           |           |
| Average number of operators     | 1.2                  | 1.0       | 1.4       |
| Average age of operators        | 50.8                 | 45.6      | 51.2      |
| Average number of years farming | 26.0                 | 17.5      | 27.1      |
| Results Per Operator            |                      |           |           |
| Working capital                 | 652,993              | 196,219   | 1,304,352 |
| Total assets (market)           | 3,215,203            | 1,359,638 | 4,828,482 |
| Total liabilities               | 1,152,307            | 533,787   | 1,853,275 |
| Net worth (market)              | 2,062,896            | 825,852   | 2,975,207 |
| Net worth excl deferred liabs   | 2,502,304            | 975,780   | 3,567,485 |
| Gross farm income               | 1,255,684            | 379,926   | 2,764,256 |
| Total farm expense              | 945,464              | 285,211   | 2,152,514 |
| Net farm income from operations | 310,220              | 94,715    | 611,742   |
| Net nonfarm income              | 26,096               | 37,440    | 12,152    |
| Family living & tax withdrawals | 94,073               | 63,384    | 143,330   |
| Total acres owned               | 183.0                | 78.5      | 213.3     |
| Total crop acres                | 750.0                | 392.9     | 1,325.5   |
| Crop acres owned                | 173.9                | 67.1      | 202.8     |
| Crop acres cash rented          | 522.5                | 279.1     | 1,050.0   |
| Crop acres share rented         | 53.6                 | 46.7      | 72.7      |
| Total pasture acres             | 5.8                  | 8.1       | 11.1      |
| Labor Analysis                  |                      |           |           |
| Number of farms                 | 109                  | 22        | 22        |
| Total unpaid labor hours        | 2,109                | 1,473     | 2,750     |
| Total hired labor hours         | 2,409                | 466       | 7,182     |
| Total labor hours per farm      | 4,517                | 1,939     | 9,932     |
| Unpaid hours per operator       | 1,782                | 1,409     | 1,952     |
| Value of farm production / hour | 233.75               | 193.30    | 242.42    |
| Net farm income / unpaid hour   | 173.99               | 67.22     | 313.47    |
| Average hourly hired labor wage | 18.42                | 30.65     | 17.49     |
| Partnerships & LLCs             |                      |           |           |
| Number of farms                 | 12                   | -         | 6         |
| Number of operators             | 2.0                  | -         | 2.0       |
| Owner withdrawals per farm      | -                    | -         | -         |
| Withdrawals per operator        | -                    | -         | -         |
| Corporations                    |                      |           |           |
| Number of farms                 | 10                   | 3         | 3         |
| Number of operators             | 1.4                  | -         | -         |

### Nonfarm Summary Southwest Minnesota Farm Business Management Association (Farms Sorted By Net Farm Income)

|                             | Avg. Of<br>All Farms | Low 20% | High 20% |
|-----------------------------|----------------------|---------|----------|
| Number of farms             | 110                  | 22      | 22       |
| Nonfarm Income              |                      |         |          |
| Personal wages & salary     | 16,265               | 23,018  | 8,637    |
| Net nonfarm business income | 2,510                | 3,604   | 333      |
| Personal rental income      | 4,008                | 195     | 2,144    |
| Personal interest income    | 600                  | 140     | 1,198    |
| Personal cash dividends     | 489                  | 121     | 665      |
| Taxrefunds                  | 910                  | 2,094   | 1,153    |
| Other nonfarm income        | 6,058                | 9,971   | 2,993    |
| Total nonfarm income        | 30,841               | 39,142  | 17,123   |
| Gifts and inheritances      | 2,541                | 2,928   | 4,103    |
| Nonfarm Assets (market)     |                      |         |          |
| Checking & savings          | 6,477                | 4,408   | 311      |
| Stocks & bonds              | 39,588               | 5,127   | 22,959   |
| Other current assets        | 2,152                | 904     | 1,387    |
| Furniture & appliances      | 10,869               | 11,544  | 8,457    |
| Nonfarm vehicles            | 19,976               | 18,369  | 15,031   |
| Cash value of life ins.     | 13,003               | 6,153   | 9,612    |
| Retirement accounts         | 70,842               | 41,807  | 101,143  |
| Other intermediate assets   | 18,490               | 3,703   | 2,608    |
| Nonfarm real estate         | 84,089               | 66,000  | 52,095   |
| Personal bus. investment    | 6,473                | -       | 18,182   |
| Other long term assets      | 36,504               | 39,254  | 38,786   |
| Total nonfarm assets        | 308,464              | 197,270 | 270,569  |
| Nonfarm Liabilities         |                      |         |          |
| Accrued interest            | 194                  | 295     | 1        |
| Accounts payable            | 38,462               | 17,333  | 81,614   |
| Current notes               | 198                  | -       | 940      |
| Princ due on term debt      | 1,439                | 2,150   | 718      |
| Total current liabilities   | 40,293               | 19,778  | 83,273   |
| Intermediate liabilities    | 4,870                | 8,647   | 9,619    |
| Long term liabilities       | 20,342               | 36,743  | 1,170    |
| Total nonfarm liabilities   | 65,505               | 65,169  | 94,061   |
| Nonfarm net worth           | 242,959              | 132,101 | 176,507  |
| Nonfarm debt to asset ratio | 21 %                 | 33 %    | 35 %     |

### **Crop Reports**

The Crop Enterprise Analysis tables show the average physical production, gross return, direct costs, overhead costs, and net returns per acre. There are potentially three tables for each crop depending on the farmer's tenure on the land: owned land, cash rented land, and share rented land. Farms are classified into low 20% or high 20% on the basis of net return per acre. The classification is done separately for each table.

Gross Return Per Acre includes the value of the crop produced plus any other income directly associated with production of the crop, including hedging gains or loses, crop insurance proceeds and any disaster payments that might have been received. It does not include direct, counter-cyclical and ACRE government payments (see Net Return With Government Payments).

The *Value Per Unit* is assigned by the producer. For cash crops, the value is based on the actual sales price for production sold or contracted before year-end and the inventory value for crops still in inventory at year-end. The local harvest-time price is used for forages and other feed crops.

Net Return Per Acre is the amount contributed toward operator labor, management, and equity capital. Any wages and benefits paid to the operator are removed from labor costs (and added to Labor and Management Charge) so that all farms are on equal footing. Land costs include land rent on the rented land pages but only actual interest paid and real estate taxes on owned land. For this reason, net returns from owned and rented land should not be compared.

*Net Return With Government Payments* is the net return per acre after decoupled government payments such as direct, counter-cyclical, and ACRE payments have been added. These payments are generally allocated evenly per acre across all crops except vegetables and pasture.

*Net Return Over Labor and Management* is the return, including government payments, remaining after compensating the operator for unpaid labor and management. This is the per acre return to equity capital.

Cost of Production shows the average cost per unit produced in each cost category. Total Direct and Overhead Expense per Unit is the breakeven price needed to cover cash costs and depreciation. Less Government and Other Income is the breakeven price if government payments and any miscellaneous income are used to offset some expenses. With Labor and Management is the breakeven price to provide a labor and management return for the operator(s).

Machinery Cost Per Acre includes fuel and oil, repairs, custom hire, machinery lease payments, machinery depreciation, and interest on intermediate debt.

### Corn on Owned Land

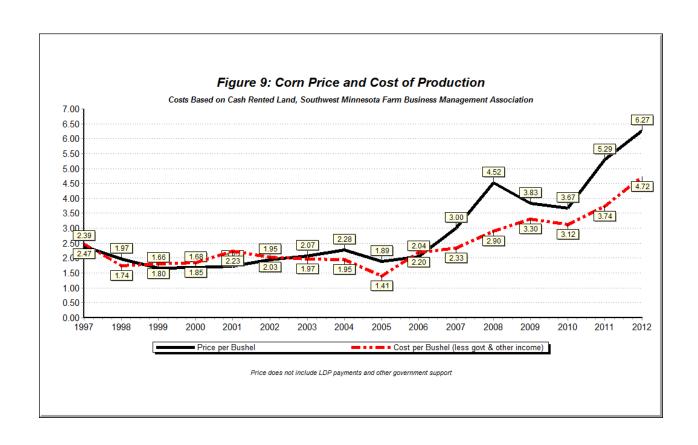
|  | Avg. Of   |   |   |
|--|---|---|---|
|  | <u>All Farms</u>  | <u>Low 20%</u>  | <u>High 20%</u>   |
| Number of fields   | 108   | 20  | 24  |
| Number of farms  | 67  | 13  | 14  |
| Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre   | 98.55<br>165.84<br>100.00<br>6.72<br>1,114.38<br>-0.59<br>17.82<br>8.68<br>1,140.28           | 73.48<br>147.96<br>100.00<br>6.57<br>972.35<br>4.02<br>3.47<br>979.84 | 84.44<br>183.32<br>100.00<br>6.88<br>1,261.55<br>0.30<br>0.19<br>3.33<br>1,265.37 |
| Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Hired labor Machinery leases Utilities   | 111.89<br>157.28<br>27.92<br>17.53<br>4.29<br>30.85<br>39.86<br>10.16<br>0.79<br>1.88<br>0.61 | 111.42<br>174.68<br>42.08<br>21.96<br>5.75<br>32.44<br>38.83<br>4.39  | 110.74<br>133.68<br>24.33<br>13.73<br>1.21<br>32.08<br>33.64<br>9.00<br>0.15      |
| Hauling and trucking Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre   | 0.75<br>0.75<br>0.54<br>4.84<br>2.30<br>411.50<br>728.78                                      | 0.10<br>0.32<br>6.22<br>0.45<br>438.64<br>541.20                      | 0.69<br>0.12<br>4.65<br>0.51<br>364.53<br>900.84                                  |
| Overhead Expenses Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre | 10.85   | 8.20  | 7.52  |
|  | 5.07  | 14.71   | 7.12  |
|  | 0.52  | 0.31  | 0.07  |
|  | 22.37   | 28.93   | 20.76   |
|  | 7.86  | 12.67   | 6.77  |
|  | 5.00  | 6.67  | 3.82  |
|  | 3.35  | 3.25  | 2.21  |
|  | 45.05   | 74.68   | 26.07   |
|  | 63.63   | 69.61   | 61.14   |
|  | 6.23  | 4.26  | 2.91  |
|  | 169.93  | 223.29  | 138.39  |
|  | 581.43  | 661.93  | 502.92  |
|  | 558.85  | 317.91  | 762.45  |
| Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt  | 18.91   | 21.78   | 20.70   |
|  | 577.76  | 339.70  | 783.15  |
|  | 65.25   | 60.53   | 68.63   |
|  | 512.51  | 279.17  | 714.53  |
| Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management  | 2.48  | 2.96  | 1.99  |
|  | 3.51  | 4.47  | 2.74  |
|  | 3.24  | 4.28  | 2.61  |
|  | 3.63  | 4.68  | 2.98  |
| Net value per unit   | 6.72  | 6.57  | 6.88  |
| Machinery cost per acre  | 145.55  | 155.75  | 138.61  |
| Est. labor hours per acre  | 3.10  | 2.94  | 2.64  |

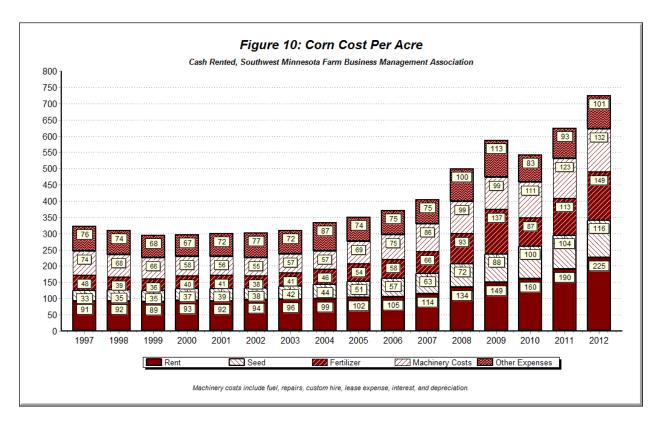
### Corn on Cash Rent

|   | Avg. Of  | Law 200/   | Histo 200/  |
|---|--|--|---|
|   | All Farms  | Low 20%  | <u> High 20%</u>  |
| Number of fields  | 232  | 57   | 48  |
| Number of farms   | 89   | 17   | 18  |
| Acres Yield per acre (bu.) Operators share of yield % Value per bu. Other product return per acre   | 140.95<br>160.77<br>100.00<br>6.78<br>0.37   | 185.22<br>142.63<br>100.00<br>6.67   | 97.06<br>185.22<br>100.00<br>6.93<br>2.61   |
| Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre  | 1,089.83   | 950.66   | 1,286.72  |
|   | -6.61  | -17.47   | -   |
|   | 12.74  | 9.41   | -   |
|   | 6.78   | 2.61   | 6.61  |
| Gross return per acre   | 1,102.74   | 945.21   | 1,293.34  |
| Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Drying expense Storage Fuel & oil Repairs Custom hire Hired labor Land rent Machinery leases Hauling and trucking Marketing Operating interest  | 115.90<br>149.41<br>25.76<br>18.03<br>3.00<br>0.29<br>29.69<br>36.16<br>6.53<br>0.74<br>224.87<br>2.69<br>1.10<br>2.28<br>6.25 | 112.60<br>125.65<br>23.91<br>13.03<br>1.18<br>30.64<br>35.01<br>4.89<br>0.68<br>259.85<br>0.83<br>1.00<br>2.99<br>9.85 | 113.40<br>137.11<br>22.98<br>13.60<br>1.27<br>0.89<br>30.72<br>32.10<br>10.15<br> |
| Miscellaneous   | 3.17   | 3.79   | 1.81  |
| Total direct expenses per acre  | 625.86   | 625.89   | 574.35  |
| Return over direct exp per acre   | 476.87   | 319.32   | 718.98  |
| Overhead Expenses  Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre | 12.47  | 10.75  | 17.40   |
|   | 5.41   | 13.41  | 1.62  |
|   | 1.61   | 4.17   | 1.47  |
|   | 7.36   | 6.14   | 7.12  |
|   | 3.87   | 3.59   | 4.63  |
|   | 3.10   | 3.07   | 2.66  |
|   | 4.92   | 5.56   | 3.56  |
|   | 53.99  | 51.83  | 56.16   |
|   | 4.15   | 4.55   | 4.26  |
|   | 96.87  | 103.07   | 98.88   |
|   | 722.73   | 728.96   | 673.23  |
|   | 380.00   | 216.25   | 620.11  |
| Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt   | 17.08  | 14.33  | 19.32   |
|   | 397.08   | 230.57   | 639.43  |
|   | 67.16  | 65.57  | 76.09   |
|   | 329.92   | 165.00   | 563.34  |
| Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management   | 3.89   | 4.39   | 3.10  |
|   | 4.50   | 5.11   | 3.63  |
|   | 4.31   | 5.05   | 3.48  |
|   | 4.72   | 5.51   | 3.89  |
| Net value per unit  | 6.74   | 6.54   | 6.93  |
| Machinery cost per acre   | 132.12   | 133.19   | 127.86  |
| Est. labor hours per acre   | 2.46   | 2.21   | 2.70  |

#### Corn on Share Rent

|   | Avg. Of<br>All Farms   |
|---|--|
| Number of fields<br>Number of farms   | 31<br>18   |
| Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre  | 82.86<br>160.58<br>51.72<br>6.74<br>559.72<br>3.28<br>3.06<br>566.06   |
| Direct Expenses  Seed Fertilizer Crop chemicals Crop insurance Drying expense Fuel & oil Repairs Custom hire Hauling and trucking Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre               | 78.16<br>93.17<br>18.93<br>10.03<br>1.82<br>29.20<br>32.47<br>8.77<br>1.79<br>1.42<br>4.88<br>1.51<br>282.16<br>283.91 |
| Overhead Expenses  Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre | 8.48<br>5.09<br>0.79<br>5.27<br>3.39<br>2.51<br>3.69<br>46.72<br>2.50<br>78.43<br>360.59<br>205.47                     |
| Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt   | 12.10<br>217.57<br>64.33<br>153.24   |
| Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management   | 3.40<br>4.34<br>4.12<br>4.89   |
| Net value per unit<br>Machinery cost per acre<br>Est. labor hours per acre  | 6.74<br>119.56<br>2.50   |





### Soybeans on Owned Land

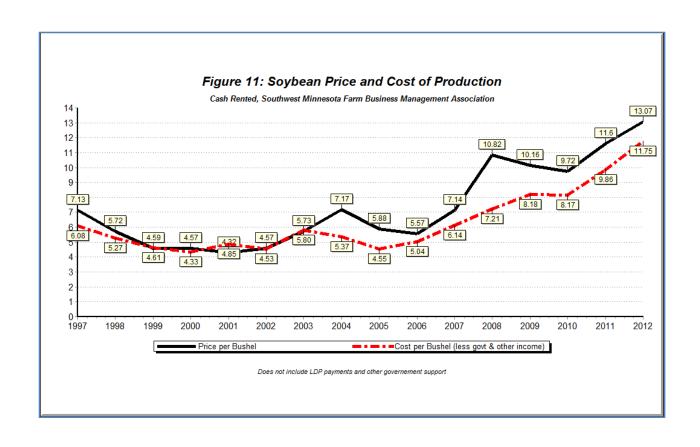
|   | Avg. Of<br>All Farms   | Low 20%   | High 20%   |
|---|--|---|--|
| Number of fields  | 97   | 16  | 26   |
| Number of farms   | 67   | 13  | 14   |
| Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre  | 89.69  | 108.28  | 68.10  |
|   | 48.80  | 41.81   | 55.41  |
|   | 100.00   | 100.00  | 100.00   |
|   | 13.79  | 13.84   | 14.17  |
|   | 673.25   | 578.83  | 785.02   |
|   | -0.63  | -   | 0.55   |
|   | 3.56   | 9.06  | 0.95   |
|   | 7.69   | 5.28  | 3.91   |
|   | 683.87   | 593.16  | 790.44   |
| Seed Fertilizer Crop chemicals Crop insurance Irrigation energy Fuel & oil Repairs Custom hire Hauling and trucking Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre   | 58.28<br>40.44<br>33.23<br>17.87<br>0.14<br>24.91<br>32.81<br>7.04<br>0.24<br>1.18<br>4.12<br>3.96<br>224.22<br>459.65 | 59.87<br>58.64<br>37.70<br>16.11<br>0.69<br>27.47<br>42.28<br>9.48<br>0.52<br>-<br>5.35<br>0.25<br>258.36<br>334.79 | 52.26<br>21.82<br>32.54<br>21.04<br>27.18<br>28.55<br>3.51<br>0.57<br>0.78<br>2.21<br>2.49<br>192.94<br>597.49 |
| Overhead Expenses  Hired labor Machinery leases Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre | 9.34   | 13.58   | 8.10   |
|   | 3.37   | 0.18  | 4.01   |
|   | 0.65   | 0.59  | 0.03   |
|   | 21.59  | 23.91   | 23.83  |
|   | 6.41   | 6.97  | 5.71   |
|   | 4.23   | 4.91  | 3.64   |
|   | 3.03   | 1.97  | 2.96   |
|   | 46.83  | 57.31   | 14.11  |
|   | 51.40  | 63.87   | 54.45  |
|   | 3.90   | 3.58  | 6.32   |
|   | 150.73   | 176.89  | 123.14   |
|   | 374.96   | 435.25  | 316.09   |
|   | 308.92   | 157.91  | 474.35   |
| Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt   | 17.22  | 17.12   | 19.35  |
|   | 326.14   | 175.02  | 493.70   |
|   | 56.11  | 42.65   | 54.46  |
|   | 270.02   | 132.37  | 439.25   |
| Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management   | 4.59   | 6.18  | 3.48   |
|   | 7.68   | 10.41   | 5.70   |
|   | 7.11   | 9.66  | 5.26   |
|   | 8.26   | 10.68   | 6.24   |
| Net value per unit  | 13.78  | 13.84   | 14.18  |
| Machinery cost per acre   | 115.05   | 130.11  | 114.30   |
| Est. labor hours per acre   | 2.45   | 2.19  | 2.50   |

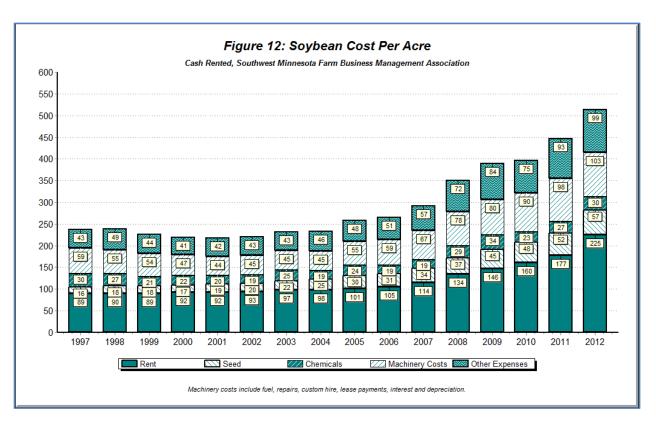
### Soybeans on Cash Rent

|  | Avg. Of<br>All Farms   | Low 20%  | High 20%  |
|--|--|--|---|
| Number of fields   | 224  | 48   | 61  |
| Number of farms  | 86   | 17   | 18  |
| Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre                           | 138.97   | 218.92   | 86.04   |
|  | 46.80  | 41.46  | 53.27   |
|  | 100.00   | 100.00   | 100.00  |
|  | 13.86  | 13.79  | 13.95   |
|  | 648.87   | 571.64   | 743.28  |
|  | -5.44  | -10.57   | 0.41  |
|  | 2.84   | 0.65   | 1.40  |
|  | 5.09   | 2.18   | 15.66   |
|  | 651.36   | 563.90   | 760.75  |
| Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Hired labor Land rent Machinery leases Hauling and trucking Marketing Operating interest Miscellaneous Total direct expenses per acre | 57.21 39.18 29.58 17.28 23.44 26.81 4.03 0.59 225.10 1.62 0.65 2.13 4.64 2.51 434.77 | 49.62<br>36.62<br>23.25<br>12.14<br>25.68<br>26.09<br>5.35<br>0.50<br>268.72<br>0.92<br>0.46<br>3.75<br>7.11<br>3.68<br>463.89 | 60.39<br>28.89<br>30.23<br>13.95<br>23.89<br>23.10<br>3.85<br>-<br>178.26<br>0.04<br>2.36<br>1.94<br>2.15<br>1.61<br>370.66 |
| Return over direct exp per acre  Overhead Expenses  Hired labor  | 216.59   | 100.01   | 390.09  |
|  | 10.72  | 7.68   | 15.96   |
| Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre         | 6.55   | 14.96  | 3.50  |
|  | 1.56   | 3.22   | 1.86  |
|  | 5.59   | 3.92   | 6.70  |
|  | 2.90   | 2.21   | 3.58  |
|  | 2.44   | 2.33   | 1.71  |
|  | 3.60   | 3.99   | 3.60  |
|  | 42.49  | 36.73  | 49.09   |
|  | 3.07   | 2.23   | 4.27  |
|  | 78.93  | 77.27  | 90.27   |
|  | 513.70   | 541.16   | 460.93  |
|  | 137.66   | 22.74  | 299.82  |
| Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt  | 15.42  | 12.31  | 18.21   |
|  | 153.09   | 35.05  | 318.03  |
|  | 54.08  | 53.82  | 59.42   |
|  | 99.01  | -18.77   | 258.60  |
| Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management  | 9.29   | 11.19  | 6.96  |
|  | 10.98  | 13.05  | 8.65  |
|  | 10.59  | 12.94  | 7.98  |
|  | 11.75  | 14.24  | 9.10  |
| Net value per unit   | 13.75  | 13.53  | 13.96   |
| Machinery cost per acre  | 102.59   | 110.17   | 99.05   |
| Est. labor hours per acre  | 1.93   | 1.69   | 2.09  |

#### Soybeans on Share Rent

|   | Avg. Of<br>All Farms   | High 20%  |
|---|--|---|
| Number of fields<br>Number of farms   | 35<br>21   | 7<br>5  |
| Acres Yield per acre (bu.) Operators share of yield % Value per bu. Total product return per acre Hedging gains/losses per acre Crop insurance per acre Other crop income per acre Gross return per acre  | 85.30<br>45.82<br>51.77<br>13.76<br>326.51<br>-1.37<br>1.66<br>2.90<br>329.70                      | 81.43<br>50.50<br>58.47<br>14.29<br>421.87<br>-<br>4.00<br>425.87                           |
| Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Storage Irrigation energy Fuel & oil Repairs Custom hire Hauling and trucking Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre               | 42.45 24.06 16.87 10.28 0.23 0.08 23.13 29.21 5.74 0.58 4.90 1.90 159.43 170.27                    | 42.11<br>17.78<br>18.49<br>8.51<br>1.21<br>25.18<br>14.30<br>0.70<br>1.49                   |
| Overhead Expenses  Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre | 6.54<br>1.88<br>0.60<br>4.94<br>3.22<br>1.47<br>3.27<br>40.03<br>1.82<br>63.79<br>223.21<br>106.49 | 13.89<br>6.66<br>2.85<br>1.33<br>1.45<br>1.54<br>28.36<br>0.74<br>56.82<br>186.58<br>239.29 |
| Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt   | 10.76<br>117.24<br>47.38<br>69.86  | 12.78<br>252.07<br>37.24<br>214.83  |
| Cost of Production Total direct expense per bu. Total dir & ovhd exp per bu. Less govt & other income With labor & management   | 6.72<br>9.41<br>8.82<br>10.82  | 4.39<br>6.32<br>5.75<br>7.01  |
| Net value per unit<br>Machinery cost per acre<br>Est. labor hours per acre  | 13.71<br>98.18<br>1.91   | 14.29<br>75.15<br>1.99  |





## Corn Silage on Owned Land

| Com Shage on Owned Land   |   |
|---|---|
|   | Avg. Of<br>All Farms  |
| Number of fields<br>Number of farms   | 16<br>11  |
| Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre  | 73.49<br>20.34<br>100.00<br>53.98<br>1,097.79<br>41.96<br>0.13<br>1,139.89                                |
| Direct Expenses  Seed Fertilizer Crop chemicals Crop insurance Irrigation energy Fuel & oil Repairs Custom hire Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre   | 117.64<br>110.28<br>22.52<br>12.36<br>0.38<br>46.48<br>34.35<br>14.75<br>3.64<br>1.96<br>364.36<br>775.53 |
| Overhead Expenses  Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre | 6.80<br>28.31<br>24.60<br>3.89<br>3.24<br>2.98<br>41.38<br>75.74<br>3.07<br>190.02<br>554.37<br>585.51    |
| Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt   | 17.33<br>602.84<br>60.49<br>542.35  |
| Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management   | 17.92<br>27.26<br>24.34<br>27.31  |
| Net value per unit<br>Machinery cost per acre<br>Est. labor hours per acre  | 53.98<br>196.60<br>1.97   |

## Corn Silage on Cash Rent

|  | Avg. Of<br>All Farms   |
|--|--|
| Number of fields<br>Number of farms  | 11<br>8  |
| Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Crop insurance per acre Other crop income per acre Gross return per acre   | 49.30<br>13.24<br>100.00<br>55.29<br>731.94<br>205.85<br>2.81<br>940.59  |
| Direct Expenses  Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Land rent Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre                        | 104.49<br>149.95<br>33.45<br>18.75<br>28.88<br>46.42<br>16.85<br>157.29<br>3.19<br>14.54<br>0.80<br>574.60<br>366.00 |
| Overhead Expenses Hired labor Machinery leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre | 13.83<br>1.55<br>5.79<br>5.53<br>2.04<br>6.04<br>49.61<br>1.65<br>86.05<br>660.64<br>279.95                          |
| Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt  | 16.98<br>296.93<br>67.50<br>229.43   |
| Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management  | 43.40<br>49.90<br>32.86<br>37.96   |
| Net value per unit<br>Machinery cost per acre<br>Est. labor hours per acre   | 55.29<br>141.76<br>2.93  |

## Hay, Alfalfa on Owned Land

|  | Avg. Of   |
|--|---|
|  | All Farms   |
| Number of fields<br>Number of farms  | 13<br>10  |
| Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Other crop income per acre Gross return per acre   | 32.34<br>4.08<br>100.00<br>211.18<br>861.49<br>1.37<br>862.86   |
| Seed Fertilizer Crop chemicals Crop insurance Fuel & oil Repairs Custom hire Machinery leases Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre  | 22.96 44.44 1.32 1.58 41.04 25.63 31.50 0.24 1.68 6.59 177.01 685.85                                    |
| Overhead Expenses Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre | 10.15<br>19.23<br>25.42<br>5.74<br>3.61<br>3.53<br>24.62<br>80.57<br>4.81<br>177.70<br>354.70<br>508.16 |
| Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt  | 14.09<br>522.24<br>63.95<br>458.29  |
| Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management  | 43.39<br>86.95<br>83.16<br>98.84  |
| Net value per unit<br>Machinery cost per acre<br>Est. labor hours per acre   | 211.18<br>194.14<br>2.77  |

## Hay, Alfalfa on Cash Rent

|  | Avg. Of<br>All Farms  |
|--|---|
| Number of fields<br>Number of farms  | 24<br>12  |
| Acres Yield per acre (ton) Operators share of yield % Value per ton Total product return per acre Other crop income per acre Gross return per acre   | 61.34<br>3.05<br>100.00<br>223.69<br>683.07<br>3.57<br>686.63   |
| Direct Expenses Seed Fertilizer Crop chemicals Crop insurance Packaging and supplies Fuel & oil Repairs Custom hire Land rent Hauling and trucking Marketing Operating interest Miscellaneous Total direct expenses per acre Return over direct exp per acre | 8.86<br>82.29<br>10.07<br>0.83<br>0.19<br>41.99<br>20.16<br>1.07<br>153.17<br>11.22<br>1.36<br>3.24<br>3.07<br>337.51<br>349.13 |
| Overhead Expenses  Hired labor Machinery leases Building leases Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre    | 19.65<br>10.57<br>2.60<br>3.69<br>1.86<br>0.95<br>3.41<br>53.07<br>2.64<br>98.45<br>435.95<br>250.68                            |
| Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt  | 11.21<br>261.89<br>34.38<br>227.52  |
| Cost of Production Total direct expense per ton Total dir & ovhd exp per ton Less govt & other income With labor & management  | 110.52<br>142.76<br>137.92<br>149.18  |
| Net value per unit<br>Machinery cost per acre<br>Est. labor hours per acre   | 223.69<br>126.38<br>2.22  |

#### Pasture on Owned Land

|                                    | Avg. Of<br>All Farms |
|------------------------------------|----------------------|
| Number of fields                   | 7                    |
| Number of fields Number of farms   | 6                    |
| Training of the fine               | · ·                  |
| Acres                              | 41.47                |
| Yield per acre (aum)               | 1.97                 |
| Operators share of yield %         | 100.00               |
| Value per aum                      | 18.66                |
| Total product return per acre      | 36.71                |
| Other crop income per acre         | 3.95                 |
| Gross return per acre              | 40.65                |
| Direct Expenses                    |                      |
| Fertilizer                         | 7.34                 |
| Crop chemicals                     | 7.18                 |
| Fuel & oil                         | 2.83                 |
| Repairs                            | 3.65                 |
| Total direct expenses per acre     | 21.10                |
| Return over direct exp per acre    | 19.55                |
| Overhead Expenses                  |                      |
| Hired labor                        | 1.37                 |
| RE & pers. property taxes          | 10.63                |
| Farm insurance                     | 0.82                 |
| Utilities                          | 0.66                 |
| Interest                           | 14.26                |
| Mach & bldg depreciation           | 3.88                 |
| Miscellaneous                      | 1.13                 |
| Total overhead expenses per acre   | 32.74                |
| Total dir & ovhd expenses per acre | 53.84                |
| Net return per acre                | -13.19               |
| Government payments                | 2.42                 |
| Net return with govt pmts          | -10.77               |
| Labor & management charge          | 4.25                 |
| Net return over lbr & mgt          | -15.02               |
| Cost of Production                 |                      |
| Total direct expense per aum       | 10.73                |
| Total dir & ovhd exp per aum       | 27.37                |
| Less govt & other income           | 24.13                |
| With labor & management            | 26.30                |
| Net value per unit                 | 18.66                |
| Machinery cost per acre            | 9.81                 |
| Est. labor hours per acre          | 0.27                 |
| ·                                  |                      |

#### Pasture on Cash Rent

|   | Avg. Of<br>All Farms   |
|---|--|
| Number of fields<br>Number of farms   | 5<br>5   |
| Acres Yield per acre (aum) Operators share of yield % Value per aum Other product return per acre Total product return per acre Gross return per acre   | 88.80<br>1.90<br>100.00<br>24.59<br>8.02<br>54.83<br>54.83     |
| Direct Expenses Fertilizer Crop chemicals Fuel & oil Repairs Land rent Total direct expenses per acre Return over direct exp per acre   | 4.79<br>1.66<br>2.54<br>2.86<br>42.21<br>54.50<br>0.33         |
| Overhead Expenses  Hired labor Machinery leases Farm insurance Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre       | 1.72<br>0.81<br>0.42<br>5.05<br>0.92<br>8.92<br>63.42<br>-8.59 |
| Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt   | -8.59<br>4.50<br>-13.09  |
| Cost of Production Total direct expense per aum Total dir & ovhd exp per aum Less govt & other income With labor & management  Net value per unit Machinery cost per acre Est. labor hours per acre | 28.63<br>33.31<br>29.10<br>31.47<br>24.59<br>10.04<br>0.16     |

#### **CRP** on Owned Land

| ON ON Owned Land                                  |                   |
|---|-------------------|
|   | Avg. Of All Farms |
| Number of fields                                  | 19                |
| Number of farms                                   | 19                |
| Acres   | 33.78             |
| Yield per acre (\$)                               | 94.70             |
| Operators share of yield %                        | 100.00            |
| Value per \$                                      | 1.00              |
| Total product return per acre                     | 94.70             |
| Other crop income per acre                        | 4.94              |
| Gross return per acre                             | 99.64             |
| Direct Expenses                                   |                   |
| Crop chemicals                                    | 0.89              |
| Fuel & oil  | 2.89              |
| Repairs   | 3.85              |
| Custom hire                                       | 2.18<br>0.21      |
| Operating interest Total direct expenses per acre | 10.51             |
| Return over direct exp per acre                   | 89.13             |
| Overhead Expenses                                 |                   |
| Hired labor                                       | 2.13              |
| RE & pers. property taxes                         | 18.39             |
| Farm insurance                                    | 0.89              |
| Utilities   | 0.69              |
| Dues & professional fees                          | 0.30              |
| Interest  | 51.01             |
| Mach & bldg depreciation                          | 5.07              |
| Miscellaneous                                     | 0.71              |
| Total overhead expenses per acre                  | 79.20             |
| Total dir & ovhd expenses per acre                | 89.71             |
| Net return per acre                               | 9.94              |
| Government payments                               | -                 |
| Net return with govt pmts                         | 9.94              |
| Labor & management charge                         | 5.53              |
| Net return over lbr & mgt                         | 4.40              |
| Cost of Production                                |                   |
| Total direct expense per \$                       | 0.11              |
| Total dir & ovhd exp per \$                       | 0.95              |
| Less govt & other income                          | 0.90              |
| With labor & management                           | 0.95              |
| Net value per unit                                | 1.00              |
| Machinery cost per acre                           | 12.91             |
| Est. labor hours per acre                         | 0.33              |
|   |                   |

#### CRP on Cash Rent

|   | Avg. Of<br>All Farms   |
|---|--|
| Number of fields<br>Number of farms   | 7<br>5   |
| Acres Yield per acre (\$) Operators share of yield % Value per \$ Total product return per acre Gross return per acre   | 15.61<br>175.56<br>100.00<br>1.00<br>175.56<br>175.56          |
| Direct Expenses Fuel & oil Repairs Land rent Operating interest Total direct expenses per acre Return over direct exp per acre  | 1.52<br>2.08<br>160.00<br>0.29<br>163.89<br>11.67              |
| Overhead Expenses  Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses per acre Total dir & ovhd expenses per acre Net return per acre | 0.44<br>0.29<br>0.60<br>1.42<br>0.44<br>3.19<br>167.08<br>8.48 |
| Government payments Net return with govt pmts Labor & management charge Net return over lbr & mgt   | 8.48<br>4.14<br>4.35   |
| Cost of Production Total direct expense per \$ Total dir & ovhd exp per \$ Less govt & other income With labor & management   | 0.93<br>0.95<br>0.95<br>0.98                                   |
| Net value per unit Machinery cost per acre Est. labor hours per acre  | 1.00<br>4.97<br>0.11   |

## **Livestock Reports**

The Livestock Enterprise Analysis tables show the average physical production, gross margin over purchase costs, direct costs, overhead costs, and net returns per budget unit.

The "Dairy" table, if included, contains the information for only the milking herd (which includes dry cows). "Dairy Replacement Heifers" are those heifers kept for replacement into the milking herd. The "Dairy and Replacement Heifers" table is for the whole herd and includes those farms in the "Dairy" and "Dairy Replacement Heifers" tables; it does not include "Dairy Steers."

*Gross Margin* is the accrual gross value added by the enterprise. It includes income from sale of offspring and livestock products, cull income, non-cash transfers to other enterprises, and the value of production used in the home or for feed. It also includes the value of inventory change from beginning to the end of the year. The cost of livestock purchased and the value of animals transferred in are deducted.

*Net Return* is the amount contributed by a unit of the enterprise toward operator labor, management, and equity capital. Any wages and benefits paid to the operator are removed from labor costs (and added to *Labor and Management Charge*) so that all farms are on equal footing.

*Net Return Over Labor and Management* is the return remaining after compensating the operator for unpaid labor and management. This is the per unit return to equity capital.

Cost of Production section shows the average cost per unit sold in each cost category. Total direct and overhead expense per unit is the breakeven price needed to cover cash costs and depreciation. For grow/finish enterprises, this includes the purchase cost or transfer in value of the animal. With other revenue adjustments is the breakeven price adjusted for cull sales, other offspring sales, the cost of replacement stock, and any other miscellaneous income. This assumes that some costs can be covered by these other income sources. With labor and management is the final breakeven price to provide a labor and management return for the operator(s).

Other Information contains both economic and technical efficiency measures for each enterprise.

Rounding of individual items for the report may have caused minor discrepancies with the calculated totals. If fewer than 5 farms have a certain livestock enterprise, that information is not reported. If there are fewer than 25 farms, the high and low groups are not reported.

## Hogs, Farrow To Finish -- Average Per Litter

|   | Avg. Of<br>All Farms           |  |
|---|--------------------------------|--|
| Number of farms   |                                | 5  |
| Raised Hogs sold (lb) Cull sales (lb) Other income Purchased (lb) Inventory change (lb) Gross margin  | Quantity<br>2,000.7<br>170.6   | Value<br>1,209.90<br>67.37<br>7.81<br>-1.58<br>-43.59<br>1,239.90  |
| Direct Expenses Protein Vit Minerals (lb.) Barley (bu.) Corn (bu.) Other feed stuffs (lb) Breeding fees Veterinary Supplies Fuel & oil Repairs Livestock leases Total direct expenses Return over direct expense  | 2,050.8<br>0.0<br>77.6<br>20.3 | 492.60<br>0.31<br>500.83<br>4.18<br>24.46<br>55.05<br>44.93<br>10.93<br>7.58<br>44.93<br>1,185.79<br>54.12                     |
| Overhead Expenses  Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return   |                                | 92.08<br>7.49<br>2.03<br>18.14<br>33.77<br>15.71<br>60.89<br>21.57<br>251.69<br>1,437.48<br>-197.57                            |
| Labor & management charge<br>Net return over lbr & mgt  |                                | 32.66<br>-230.23   |
| Cost of Production/Cwt. Carcass Sold Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management  |                                | 80.36<br>97.42<br>91.48<br>93.70   |
| Est. labor hours per unit   |                                | 6.29   |
| Other Information Average number of sows Litters farrowed Litters per sow Litters per crate Pigs born per litter Pigs weaned per litter Pigs weaned per sow Pigs sold per litter Percent substandard hogs Lb. of feed / lb. of gain Feed cost / cwt. of gain Feed cost per litter Avg wgt/Raised Hogs sold Avg price / cwt. Average carcass weight Average price / cwt. carcass |                                | 147.1<br>321<br>2.19<br>10.17<br>9.81<br>9.27<br>18.51<br>7.39<br>5<br>3.07<br>47.53<br>997.92<br>271<br>60.47<br>210<br>80.05 |

## Hogs, Farrow To Finish -- Average Per Cwt. Carcass Sold

|   | Avg. Of<br>All Farms                      |  |
|---|---|--|
| Number of farms   |   | 5  |
| Raised Hogs sold (lb) Cull sales (lb) Other income Purchased (lb) Inventory change (lb) Gross margin  | Quantity<br>135.59<br>11.56<br>-<br>-4.88 | Value<br>82.00<br>4.57<br>0.53<br>-0.11<br>-2.95<br>84.03  |
| Direct Expenses Protein Vit Minerals (lb.) Barley (bu.) Corn (bu.) Other feed stuffs (lb) Breeding fees Veterinary Supplies Fuel & oil Repairs Livestock leases Total direct expenses Return over direct expense  | 138.98<br>0.00<br>5.26<br>1.38            | 33.38<br>0.02<br>33.94<br>0.28<br>1.66<br>3.73<br>3.04<br>0.74<br>0.51<br>3.04<br>80.36<br>3.67                                |
| Overhead Expenses Hired labor Machinery leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return   |   | 6.24<br>0.51<br>0.14<br>1.23<br>2.29<br>0.35<br>1.06<br>4.13<br>1.11<br>17.06<br>97.42<br>-13.39                               |
| Labor & management charge<br>Net return over lbr & mgt  |   | 2.21<br>-15.60   |
| Cost of Production/Cwt. Carcass Sold Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management  |   | 80.36<br>97.42<br>91.48<br>93.70   |
| Est. labor hours per unit   |   | 0.43   |
| Other Information Average number of sows Litters farrowed Litters per sow Litters per crate Pigs born per litter Pigs weaned per litter Pigs weaned per sow Pigs sold per litter Percent substandard hogs Lb. of feed / lb. of gain Feed cost / cwt. of gain Feed cost per litter Avg wgt/Raised Hogs sold Avg price / cwt. Average carcass weight Average price / cwt. carcass |   | 147.1<br>321<br>2.19<br>10.17<br>9.81<br>9.27<br>18.51<br>7.39<br>5<br>3.07<br>47.53<br>997.92<br>271<br>60.47<br>210<br>80.05 |

## Hogs, Weaning to Finish -- Average Per Head

|   | Δνα (                               | Of.  |
|---|-------------------------------------|--|
|   | Avg. Of<br>All Farms                |  |
| Number of farms   |                                     | 6  |
| Wean-Fin Pig sold (lb) Other income Purchased (lb) Inventory change (lb) Gross margin   | Quantity<br>273.9<br>-14.9<br>-0.2  | Value<br>171.77<br>11.03<br>-41.91<br>2.31<br>143.20   |
| Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) DDGS, dry (lb.) Other feed stuffs (lb) Veterinary Supplies Contract production exp. Fuel & oil Repairs Custom hire Hired labor Livestock leases Marketing Operating interest Total direct expenses Return over direct expense   | 42.4<br>77.1<br>6.5<br>152.4<br>0.0 | 10.31<br>18.84<br>39.92<br>17.63<br>12.16<br>3.85<br>0.78<br>2.85<br>0.73<br>1.67<br>1.83<br>5.37<br>1.68<br>0.59<br>0.79<br>118.99<br>24.21 |
| Overhead Expenses Hired labor Building leases Farm insurance Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return  |                                     | -0.67<br>9.26<br>0.60<br>2.82<br>1.43<br>13.45<br>132.44   |
| Labor & management charge<br>Net return over lbr & mgt  |                                     | 3.49<br>7.27   |
| Cost of Production/Cwt. Carcass Sold Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management  |                                     | 79.04<br>85.74<br>80.25<br>81.99   |
| Est. labor hours per unit   |                                     | 0.43   |
| Other Information  No. purchased or trans in  Number sold or trans out  Percentage death loss  Percent substandard hogs  Avg. daily gain (lb.)  Lb. of feed / lb. of gain  Feed cost per cwt. of gain  Feed cost per head  Average purchase weight  Avg wgt / Wean-Fin Pig sold  Avg purch price / head  Avg sales price / cwt.  Average carcass weight  Average price / cwt. carcass |                                     | 43,820<br>37,651<br>5.3<br>2<br>1.45<br>2.73<br>38.19<br>98.87<br>12<br>267<br>35.13<br>62.71<br>201<br>84.56                                |

## Hogs, Weaning to Finish -- Average Per Cwt. Carcass Sold

|   | Avg.<br>All Fa                          |  |
|---|---|--|
| Number of farms   |   | 6  |
| Wean-Fin Pig sold (lb) Other income Purchased (lb) Inventory change (lb) Gross margin   | Quantity<br>136.52<br>-7.40<br>-0.10    | Value<br>85.62<br>5.50<br>-20.89<br>1.15<br>71.37  |
| Direct Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) DDGS, dry (lb.) Other feed stuffs (lb) Veterinary Supplies Contract production exp. Fuel & oil Repairs Custom hire Hired labor Livestock leases Marketing Operating interest Total direct expenses Return over direct expense   | 21.16<br>38.43<br>3.26<br>75.97<br>0.02 | 5.14<br>9.39<br>19.90<br>8.79<br>6.06<br>1.92<br>0.39<br>1.42<br>0.36<br>0.83<br>0.91<br>2.68<br>0.84<br>0.29<br>0.39<br>59.31 |
| Overhead Expenses Hired labor Building leases Farm insurance Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return  |   | -0.33<br>4.62<br>0.30<br>1.41<br>0.71<br>6.70<br>66.01<br>5.36   |
| Labor & management charge<br>Net return over lbr & mgt  |   | 1.74<br>3.62   |
| Cost of Production/Cwt. Carcass Sold Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management  |   | 79.04<br>85.74<br>80.25<br>81.99   |
| Est. labor hours per unit   |   | 0.21   |
| Other Information No. purchased or trans in Number sold or trans out Percentage death loss Percent substandard hogs Avg. daily gain (lb.) Lb. of feed / lb. of gain Feed cost per cwt. of gain Feed cost per head Average purchase weight Avg wgt / Wean-Fin Pig sold Avg purch price / head Avg sales price / cwt. Average carcass weight Average price / cwt. carcass |   | 43,820<br>37,651<br>5.3<br>2<br>1.45<br>2.73<br>38.19<br>98.87<br>12<br>267<br>35.13<br>62,71<br>201<br>84.56                  |

#### Hogs, Weaning to Finish (Contract Grower) -- Average Per Pig Space

|  | Avg.<br>AII Fa |  |
|--|----------------|--|
| Number of farms  |                | 13   |
| Other income<br>Gross margin   | Quantity       | Value<br>35.80<br>35.80  |
| Direct Expenses Supplies Contract production exp. Fuel & oil Repairs Custom hire Hired labor Utilities Operating interest Total direct expenses Return over direct expense   |                | 1.31<br>0.92<br>1.99<br>3.59<br>1.87<br>0.57<br>1.73<br>0.09<br>12.05<br>23.75                 |
| Overhead Expenses Hired labor Building leases RE & pers. property taxes Farm insurance Utilities Dues & professional fees Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return |                | 1.20<br>3.66<br>0.54<br>1.34<br>1.08<br>0.15<br>3.39<br>8.09<br>0.24<br>19.69<br>31.74<br>4.06 |
| Labor & management charge<br>Net return over lbr & mgt   |                | 5.64<br>-1.58  |
| Cost of Production Per Pig Space Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management   |                | -<br>-<br>-<br>-   |
| Est. labor hours per unit  |                | 0.31   |
| Other Information Number of pigs Pigs per pig space (per year) Net return per 100 sq. ft. Net return per labor hour Square feet per pig space  |                | 5,825<br>2.37<br>54.83<br>12.99<br>7.41  |

## Beef Cow-Calf -- Average Per Cow

|  | verage r er con  |  |
|--|--|--|
|  | Avg. (<br>All Far  |  |
| Number of farms  |  | 7  |
| Beef Calves sold (lb) Transferred out (lb) Cull sales (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin  | Quantity  370.5  96.2  -68.8  -14.4  52.2  | Value<br>18.84<br>659.60<br>157.61<br>3.25<br>-254.99<br>-139.84<br>329.68<br>774.14   |
| Pirect Expenses Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) Pasture (aum) DDGS, dry (lb.) DDGS, wet (lb.) Other feed stuffs (lb) Breeding fees Veterinary Supplies Fuel & oil Repairs Custom hire Bedding Operating interest Total direct expenses Return over direct expense | 41.8<br>156.9<br>1.7<br>5,772.0<br>2,011.4<br>1,989.7<br>2.4<br>77.5<br>176.5<br>850.4 | 12.45<br>32.97<br>11.49<br>128.60<br>189.35<br>101.42<br>79.51<br>9.94<br>28.48<br>18.30<br>19.77<br>32.38<br>14.38<br>14.38<br>14.99<br>11.74<br>10.45<br>4.12<br>3.76<br>728.10<br>46.04 |
| Overhead Expenses Hired labor Farm insurance Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return   |  | 5.16<br>5.41<br>21.06<br>21.42<br>53.05<br>781.15<br>-7.01   |
| Labor & management charge<br>Net return over lbr & mgt   |  | 94.46<br>-101.46   |
| Cost of Production Per Cwt. Produce<br>Total direct expense per unit<br>Total dir& ovhd expense per unit<br>With other revenue adjustments<br>With labor and management  | ed   | 167.12<br>179.29<br>179.80<br>201.48   |
| Est. labor hours per unit  |  | 4.26   |
| Other Information Number of cows Pregnancy percentage Pregnancy loss percentage Culling percentage Calving percentage Weaning percentage Calves sold per cow Calf death loss percent Cow death loss percent Cows per FTE Average weaning weight Lb. weaned/exposed female Feed cost per cow  |  | 72.9<br>93.8<br>3.9<br>15.5<br>90.1<br>84.7<br>0.74<br>5.7<br>2.0<br>657.2<br>505<br>427<br>612.52   |

## Beef Finishing -- Average Per Head

|  | Avg.<br>All Fa  |  |
|--|---|--|
| Number of farms  |   | 9  |
| Finish Beef sold (lb) Transferred out (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin  | Quantity<br>1,309.8<br>25.8<br>-585.4<br>-74.5<br>51.4  | Value<br>1,618.19<br>38.26<br>3.51<br>-916.92<br>-136.56<br>97.42<br>703.90  |
| Direct Expenses Corn Distillers Grn (dry) (lb.) Beet Pulp (dry) (lb.) Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) DDGS, dry (lb.) DDGS, wet (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Custom hire Hauling and trucking Operating interest Total direct expenses Return over direct expense | 315.0<br>386.2<br>197.1<br>277.3<br>39.8<br>4,434.8<br>258.8<br>140.9<br>412.4<br>163.6<br>83.2 | 35.21<br>11.94<br>71.72<br>35.18<br>273.32<br>110.74<br>15.89<br>12.80<br>39.13<br>9.12<br>1.48<br>16.52<br>6.47<br>12.47<br>17.88<br>5.58<br>21.97<br>12.35<br>709.78 |
| Overhead Expenses Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return  |   | 4.31<br>4.07<br>8.44<br>31.20<br>7.18<br>55.19<br>764.98<br>-61.08   |
| Labor & management charge<br>Net return over lbr & mgt   |   | 58.48<br>-119.56   |
| Cost of Production Per Cwt. Produced Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management   |   | 124.46<br>128.60<br>128.60<br>132.98   |
| Est. labor hours per unit  |   | 2.45   |
| Other Information No. purchased or trans in Number sold or trans out Percentage death loss Avg. daily gain (lb.) Lb. of conc / lb. of gain Lb. of feed / lb. of gain Feed cost per cwt. of gain Feed cost per head Average purchase weight Avg wgt / Finish Beef sold Avg purch price / cwt. Avg sales price / cwt.  |   | 227<br>203<br>0.5<br>2.36<br>5.45<br>8.11<br>84.48<br>616.54<br>611<br>1,382<br>156.62<br>123.55   |

## Beef Finishing -- Average Per Cwt. Produced

|  | Avg. (<br>All Far   |  |
|--|---|--|
| Number of farms  |   | 9  |
| Finish Beef sold (lb) Transferred out (lb) Other income Purchased (lb) Transferred in (lb) Inventory change (lb) Gross margin  | Quantity<br>179.46<br>3.54<br>-80.21<br>-10.21<br>7.04  | Value<br>221.72<br>5.24<br>0.48<br>-125.63<br>-18.71<br>13.35<br>96.45   |
| Direct Expenses Corn Distillers Grn (dry) (lb.) Beet Pulp (dry) (lb.) Protein Vit Minerals (lb.) Complete Ration (lb.) Corn (bu.) Corn Silage (lb.) Hay, Alfalfa (lb.) Hay, Grass (lb.) DDGS, dry (lb.) DDGS, wet (lb.) Other feed stuffs (lb) Veterinary Supplies Fuel & oil Repairs Custom hire Hauling and trucking Operating interest Total direct expenses Return over direct expense | 43.16<br>52.92<br>27.01<br>38.00<br>5.45<br>607.64<br>35.46<br>19.30<br>56.51<br>22.42<br>11.40 | 4.82<br>1.64<br>9.83<br>4.82<br>37.45<br>15.17<br>2.18<br>1.75<br>5.36<br>1.25<br>0.20<br>2.26<br>0.89<br>1.71<br>2.45<br>0.76<br>3.01<br>1.69<br>97.25<br>-0.81 |
| Overhead Expenses Farm insurance Utilities Interest Mach & bldg depreciation Miscellaneous Total overhead expenses Total dir & ovhd expenses Net return  |   | 0.59<br>0.56<br>1.16<br>4.28<br>0.98<br>7.56<br>104.81<br>-8.37  |
| Labor & management charge<br>Net return over lbr & mgt   |   | 8.01<br>-16.38   |
| Cost of Production Per Cwt. Produced Total direct expense per unit Total dir& ovhd expense per unit With other revenue adjustments With labor and management   |   | 124.46<br>128.60<br>128.60<br>132.98   |
| Est. labor hours per unit  |   | 0.34   |
| Other Information No. purchased or trans in Number sold or trans out Percentage death loss Avg. daily gain (lb.) Lb. of conc / lb. of gain Lb. of feed / lb. of gain Feed cost per cwt. of gain Feed cost per head Average purchase weight Avg wgt / Finish Beef sold Avg purch price / cwt. Avg sales price / cwt.  |   | 227<br>203<br>0.5<br>2.36<br>5.45<br>8.11<br>84.48<br>616.54<br>611<br>1,382<br>156.62<br>123.55   |

## **Summary Tables**

#### **Financial Summary by Years**

A better picture of the current financial performance can be seen by comparing this year to previous years in the *Summary by Years* table. All items are taken from the annual report for that year. Monetary values are left in nominal terms unadjusted for inflation. The one exception is the *Net Farm Income (Constant \$)* using the Consumer Price Index (CPI-U) from the U.S. Department of Commerce. This shows the changes in "buying power" for the farmers, compared to the current year. The CPI used is reported below.

|             | CPI-U              |             | CPI-U              |
|-------------|--------------------|-------------|--------------------|
| <b>Year</b> | <u>1982-84=100</u> | <b>Year</b> | <u>1982-84=100</u> |
| 1993        | 144.5              | 2003        | 184.0              |
| 1994        | 148.2              | 2004        | 188.9              |
| 1995        | 152.4              | 2005        | 195.3              |
| 1996        | 156.9              | 2006        | 201.6              |
| 1997        | 160.5              | 2007        | 207.3              |
| 1998        | 163.0              | 2008        | 215.2              |
| 1999        | 166.6              | 2009        | 214.5              |
| 2000        | 172.2              | 2010        | 218.1              |
| 2001        | 177.0              | 2011        | 224.9              |
| 2002        | 179.9              | 2012        | 229.6              |

#### **Financial Summary by Farm Size (Gross Farm Income)**

This table summarizes whole-farm financial performance by size of farm. Farms are categorized based on gross farm income.

#### **Financial Summary by Farm Type**

This table summarizes whole-farm financial performance by type of farm. Farm type is assigned based on greater than 70 percent of sales from that commodity or combination of commodities.

#### Financial Summary by Debt To Asset Ratio

This table summarizes whole-farm financial performance by debt level. Farms are categorized based on total farm and nonfarm Debt To Asset Ratio.

#### Financial Summary by Age of Operator

This table summarizes whole-farm financial performance based on age of the primary operator.

#### SUMMARY OF THE WHOLE FARM ANALYSIS BY YEARS Southwestern Minnesota Farm Business Management Association (Overall averages for all farms reporting)

|       |  | ,       | ·       |         | . 0,    |           |           |           |           |           |
|-------|--|---------|---------|---------|---------|-----------|-----------|-----------|-----------|-----------|
| Row   | Items                                      | 1993    | 1994    | 1995    | 1996    | 1997      | 1998      | 1999      | 2000      | 2001      |
|       |  |         |         |         |         |           |           |           |           |           |
| 1 Nu  | umber of Farms                             | 202     | 202     | 216     | 203     | 208       | 210       | 216       | 212       | 207       |
| Fa    | arm Income Statement                       |         |         |         |         |           |           |           |           |           |
| 2     | Gross Cash Farm Income                     | 296,705 | 306,175 | 346,838 | 382,502 | 359,710   | 369,573   | 388,731   | 422,897   | 433,698   |
| 3     | Total Cash Farm Expense                    | 242,616 | 256,246 | 277,214 | 299,610 | 303,241   | 305,344   | 324,802   | 348,711   | 358,506   |
| 4     | Inventory Change                           | 4,474   | 9,254   | 16,939  | 12,231  | 19,769    | -21,057   | 15,633    | 25,296    | -17,297   |
|       | , ,  |         |         |         |         |           |           |           |           |           |
| 5     | Depr. & Cap. Adj.                          | -26,997 | -27,268 | -29,288 | -32,424 | -35,640   | -34,557   | -35,800   | -17,731   | -21,280   |
| 6     | Net Farm Income from Operations            | 31,567  | 31,915  | 57,276  | 62,699  | 40,598    | 8,616     | 43,762    | 81,750    | 36,614    |
| 7     | Gain of Loss on Capital Sales              | 0       | 0       | 0       | 0       | 0         | 0         | 0         | 0         | 0         |
| 8     | Net Farm Income                            | 31,567  | 31,915  | 57,276  | 62,699  | 40,598    | 8,616     | 43,762    | 81,750    | 36,614    |
| 9 Ne  | et Farm Income (Constant \$)               | 50,158  | 49,445  | 86,290  | 91,751  | 58,077    | 12,136    | 60,311    | 109,000   | 47,495    |
| Pr    | rofitability*                              |         |         |         |         |           |           |           |           |           |
| 10    | Rate of Return on Assets (%)               | 5       | 5       | 10      | 10      | 6         | 2         | 7         | 12        | 6         |
| 11    | Rate of Return on Equity (%)               | 2       | 3       | 13      | 12      | 5         | -6        | 7         | 19        | 4         |
|       | 1 7 1 7                                    | 12      |         | 22      | 21      | 14        | 4         | 16        | 27        | 14        |
| 12    | Operating Profit Margin (%)                |         | 12      |         |         |           |           |           |           |           |
| 13    | Asset Turnover Rate (%)                    | 40      | 41      | 46      | 48      | 44        | 39        | 43        | 45        | 39        |
| 14    | Value of Farm Production                   | 191,194 | 207,729 | 247,690 | 277,026 | 262,396   | 250,717   | 274,411   | 313,232   | 282,583   |
| 15    | Farm Interest Paid                         | 15,667  | 17,837  | 22,084  | 22,337  | 22,282    | 25,358    | 27,488    | 27,002    | 27,203    |
| Lie   | quidity, Repayment and Efficiency          |         |         |         |         |           |           |           |           |           |
| 16    | Current Ratio                              | 1.9     | 1.8     | 1.9     | 2.0     | 1.6       | 1.5       | 1.6       | 1.7       | 1.5       |
| 17    | Working Capital                            | 99,295  | 91,719  | 106,941 | 118,955 | 91,023    | 76,325    | 95,737    | 112,896   | 83,500    |
| 18    | Working Capital to Gross Revenue (%)       | 33      | 28      | 29      | 30      | 25        | 21        | 24        | 25        | 20        |
| 19    | Term Debt Coverage Ratio                   | n/a     | n/a     | n/a     | n/a     | 2.2       | 1.6       | 1.9       | 2.3       | 1.0       |
| 20    | Operating Expense Ratio (%)                | 75.1    | 75.9    | 70.0    | 69.6    | 73.3      | 80.5      | 73.1      | 71.4      | 79.5      |
|       |  | 5.4     | 5.7     | 6.1     | 5.8     | 6.2       | 7.5       | 6.7       | 6.2       | 6.6       |
| 21    | Interest Expense Ratio (%)                 | 5.4     | 5.7     | 0.1     | 5.0     | 0.2       | 7.5       | 0.7       | 0.2       | 0.0       |
| So    | olvency (Year-end, Sole Proprietors Only)* |         |         |         |         |           |           |           |           |           |
| 22    | No. of Sole Proprietors                    | 178     | 179     | 184     | 173     | 180       | 183       | 185       | 181       | 178       |
| 23    | Total Assets                               | 844,030 | 901,807 | 944,208 | 982,750 | 1,016,308 | 1,066,565 | 1,061,579 | 1,150,838 | 1,158,071 |
| 24    | Total Liabilities                          | 396,899 | 431,390 | 452,253 | 462,505 | 490,140   | 522,994   | 517,040   | 545,689   | 539,918   |
|       | Net Worth                                  | 447,132 | 470,418 | 491,955 | 520,245 | 526,168   | 543,571   | 544,539   | 605,149   | 618,197   |
| 25    |  | ,       | ,       | ,       | ,       | ,         |           |           | ,         | ,         |
| 26    | Debt to Asset Ratio (%)                    | 47      | 48      | 48      | 47      | 48        | 49        | 49        | 47        | 47        |
| Ad    | creage Information                         |         |         |         |         |           |           |           |           |           |
| 27    | Total Acres Owned                          | 252     | 267     | 256     | 249     | 233       | 250       | 241       | 250       | 252       |
| 28    | Total Crop Acres Farmed                    | 600     | 612     | 625     | 658     | 648       | 697       | 709       | 730       | 759       |
| 29    | Crop Acres Owned                           | 204     | 204     | 211     | 204     | 200       | 219       | 204       | 214       | 214       |
| 30    | Crop Acres Cash Rented                     | 299     | 323     | 340     | 384     | 381       | 402       | 430       | 445       | 468       |
| 31    | Crop Acres Share Rented                    | 97      | 86      | 74      | 70      | 67        | 76        | 75        | 70        | 77        |
| 0.    | ··· Vialda                                 |         |         |         |         |           |           |           |           |           |
|       | rop Yields                                 |         |         |         |         |           |           |           |           |           |
| 32    | Corn per acre (bu.)                        | 61      | 143     | 119     | 133     | 126       | 161       | 156       | 150       | 128       |
| 33    | Soybeans per acre (bu.)                    | 20      | 46      | 43      | 42      | 42        | 49        | 45        | 46        | 42        |
| Cr    | rop Prices Received (cash sales)           |         |         |         |         |           |           |           |           |           |
| 34    | Corn per Bushel                            | 2.11    | 2.24    | 2.30    | 3.04    | 2.39      | 1.97      | 1.66      | 1.68      | 1.72      |
| 35    | Soybeans per Bushel                        | 5.84    | 5.94    | 5.56    | 6.84    | 7.13      | 5.72      | 4.59      | 4.57      | 4.32      |
| 55    | Coyboans per Basher                        | 0.01    | 0.04    | 0.00    | 0.01    | 7.10      | 0.72      | 4.00      | 4.07      | 1.02      |
|       | ousehold Information                       |         |         |         |         |           |           |           |           |           |
| 36    | No. Farms Reporting HseHld Info            | 131     | 134     | 151     | 131     | 123       | 122       | 125       | 120       | 124       |
| 37    | Average Family Size                        | 3.9     | 3.8     | 3.7     | 3.7     | 3.7       | 3.6       | 3.6       | 3.5       | 3.5       |
| 38    | Family living expense                      | 28,999  | 29,438  | 30,439  | 32,509  | 34,284    | 34,097    | 35,186    | 38,932    | 39,793    |
| 39    | Total Family Use of Cash                   | 45,897  | 42,179  | 43,315  | 47,584  | 58,051    | 48,197    | 50,326    | 62,349    | 63,980    |
|       |  |         |         |         |         |           |           |           |           |           |
| 40 Ne | et Nonfarm Income                          | 12,387  | 12,381  | 14,279  | 13,506  | 13,596    | 15,580    | 18,430    | 21,436    | 20,082    |
|       |  |         |         |         |         |           |           |           |           |           |

<sup>\*</sup> Beginning in 1993, profitability is analyzed using assets valued at adjusted cost basis while solvency is at estimated fair market value. Prior to 1993, profitability and solvency were analyzed using land valued with a conservative market value and all other assets valued at cost basis.

#### SUMMARY OF THE WHOLE FARM ANALYSIS BY YEARS (continued) Southwestern Minnesota Farm Business Management Association (Overall averages for all farms reporting)

|                   |                    |                    | '                 | o ro.a aro.ag     | ,00 .0. aa         | .o.opog/           |                    |                    |                    |                        |        |
|-------------------|--------------------|--------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|------------------------|--------|
| 2002              | 2003               | 2004               | 2005              | 2006              | 2007               | 2008               | 2009               | 2010               | 2011               | 2012                   | Row    |
|                   |                    |                    |                   |                   |                    |                    |                    |                    |                    |                        |        |
| 188               | 175                | 125                | 107               | 110               | 107                | 99                 | 95                 | 97                 | 107                | 110                    | 1      |
| 400.004           | 504.000            | 400 774            | 570 004           | 000 000           | 704 007            | 070 075            | 070 404            | 070 474            | 4.450.000          | 4 222 540              |        |
| 428,084           | 504,022<br>400,605 | 496,771<br>404,743 | 579,201           | 609,886           | 731,897<br>592,841 | 876,375            | 878,404            | 970,471            | 1,150,686          | 1,332,519<br>1,057,018 | 2      |
| 352,995<br>19,571 | 18,977             | 31,076             | 477,476<br>74,307 | 494,409<br>66,397 | 135,843            | 720,364<br>70,051  | 743,487<br>-21,159 | 781,053<br>178,977 | 898,752<br>136,582 | 1,057,016              | 3<br>4 |
| -24,654           | -25,990            | -24,741            | -28,170           | -27,176           | -32,631            | -39,437            | -43,972            | -48,085            | -55,244            | -66,085                |        |
| 70,007            | -25,990<br>96,404  | 98,362             | 147,862           | 154,698           | 242,267            | -39,437<br>186,625 | 69,787             | 320,310            | 333,272            | 366,624                | 5<br>6 |
| 70,007            | 90,404             | 96,302             | 0                 | 154,096           | 0                  | 4,276              | 09,767             | 1,855              | 3,015              | 10,447                 | 7      |
| 70,007            | 96,404             | 98,362             | 147,862           | 154,698           | 242,267            | 190,901            | 69,787             | 322,165            | 336,287            | 377,071                | 8      |
| 89,347            | 120,295            | 119,555            | 173,831           | 176,184           | 268,329            | 203,580            | 74,700             | 339,152            | 343,315            | 377,071                | 9      |
| 9                 | 11                 | 11                 | 14                | 13                | 17                 | 11                 | 3                  | 17                 | 16                 | 14                     | 10     |
| 11                | 16                 | 16                 | 21                | 19                | 25                 | 15                 | 2                  | 24                 | 21                 | 19                     | 11     |
| 20                | 24                 | 23                 | 28                | 28                | 35                 | 26                 | 9                  | 36                 | 35                 | 30                     | 12     |
| 44                | 44                 | 46                 | 51                | 48                | 50                 | 43                 | 37                 | 47                 | 46                 | 46                     | 13     |
| 345,743           | 379,505            | 378,450            | 478,073           | 512,081           | 648,768            | 658,576            | 608,181            | 819,691            | 871,265            | 1,052,663              | 14     |
| 26,739            | 25,262             | 21,824             | 22,210            | 27,677            | 30,714             | 30,232             | 29,727             | 34,124             | 28,447             | 27,141                 | 15     |
| 1.6               | 1.7                | 1.9                | 2.1               | 2.2               | 2.5                | 2.6                | 2.3                | 2.9                | 3.3                | 3.1                    | 16     |
| 117,135           | 143,632            | 155,804            | 218,745           | 268,567           | 393,911            | 446,350            | 404,104            | 568,438            | 659,446            | 771,719                | 17     |
| 25                | 28                 | 30                 | 34                | 40                | 46                 | 49                 | 45                 | 50                 | 52                 | 52                     | 18     |
| 1.6               | 2.2                | 2.1                | 3.0               | 3.1               | 4.1                | 2.9                | 1.1                | 5.2                | 5.6                | 4.6                    | 19     |
| 73.6              | 71.5               | 72.1               | 69.2              | 68.7              | 64.1               | 71.6               | 83.6               | 64.8               | 66.9               | 69.1                   | 20     |
| 5.8               | 4.8                | 4.2                | 3.5               | 4.3               | 3.7                | 3.3                | 3.3                | 3.0                | 2.3                | 1,8                    | 21     |
|                   |                    |                    |                   |                   |                    |                    |                    |                    |                    | .,2                    |        |
| 161               | 149                | 109                | 91                | 93                | 91                 | 85                 | 80                 | 80                 | 87                 | 85                     | 22     |
| 1,277,823         | 1,407,919          | 1,286,775          | 1,487,232         | 1,694,428         | 2,034,365          | 2,208,883          | 2,376,886          | 2,719,826          | 2,922,324          | 3,515,081              | 23     |
| 578,253           | 619,279            | 554,962            | 618,105           | 698,239           | 810,184            | 837,830            | 892,734            | 987,753            | 1,068,183          | 1,057,882              | 24     |
| 699,570           | 788,640            | 731,813            | 869,127           | 996,189           | 1,224,181          | 1,371,053          | 1,484,151          | 1,732,074          | 1,854,181          | 2,288,721              | 25     |
| 45                | 44                 | 43                 | 42                | 41                | 40                 | 38                 | 38                 | 36                 | 37                 | 35                     | 26     |
| 45                |                    | 70                 | 42                | 71                | 40                 | 30                 | 30                 | 30                 | 37                 | 33                     | 20     |
| 265               | 263                | 236                | 241               | 243               | 241                | 249                | 250                | 240                | 232                | 216                    | 27     |
| 784               | 794                | 766                | 792               | 797               | 825                | 822                | 831                | 831                | 791                | 886                    | 28     |
| 226               | 239                | 193                | 199               | 197               | 208                | 222                | 224                | 221                | 202                | 205                    | 29     |
| 490               | 489                | 494                | 532               | 526               | 546                | 536                | 555                | 550                | 532                | 617                    | 30     |
| 68                | 67                 | 79                 | 61                | 74                | 71                 | 64                 | 52                 | 61                 | 57                 | 63                     | 31     |
| 151               | 157                | 171                | 192               | 169               | 162                | 172                | 185                | 184                | 173                | 162                    | 32     |
| 49                | 39                 | 41                 | 55                | 51                | 49                 | 44                 | 49                 | 51                 | 46                 | 47                     | 33     |
|                   |                    |                    |                   |                   |                    |                    |                    |                    |                    |                        |        |
| 1.95              | 2.07               | 2.28               | 1.89              | 2.04              | 3.00               | 4.51               | 3.83               | 3.67               | 5.29               | 6.27                   | 34     |
| 4.57              | 5.73               | 7.17               | 5.88              | 5.57              | 7.14               | 10.83              | 10.15              | 9.72               | 11.58              | 13.07                  | 35     |
| 108               | 102                | 73                 | 67                | 66                | 60                 | 62                 | 52                 | 46                 | 43                 | 42                     | 36     |
| 3.6               | 3.4                | 3.4                | 3.4               | 3.3               | 3.1                | 3.0                | 3.3                | 3.0                | 3.0                | 2.9                    | 37     |
| 41,882            | 43,383             | 48,371             | 50,608            | 51,569            | 56,229             | 59,939             | 62,182             | 63,848             | 73,704             | 73,904                 | 38     |
| 51,826            | 68,470             | 68,029             | 74,513            | 82,670            | 98,388             | 100,933            | 123,590            | 108,468            | 119,913            | 135,406                | 39     |
| 20,846            | 22,480             | 23,733             | 24,774            | 31,059            | 25,164             | 28,456             | 29,369             | 29,543             | 35,042             | 30,841                 | 40     |
|                   |                    | , -                | •                 | , -               |                    | , -                |                    | , -                | •                  | •                      |        |

# Financial Summary Southwest Minnesota Farm Business Management Association (Farms Sorted By Gross Farm Income)

|   | Avg. Of      | 100,001 - | 250,001 -    | 500,001 -  | Over         |
|---|--------------|-----------|--------------|------------|--------------|
|   | All Farms    | 250,000   | 500,000      | 1,000,000  | 1,000,000    |
| Number of farms   | 110          | 6         | 22           | 40         | 39           |
| Income Statement  |              |           |              |            |              |
| Gross cash farm income                                      | 1,332,519    | 193,204   | 393,485      | 682,166    | 2,801,852    |
| Total cash farm expense                                     | 1,057,018    | 131,886   | 258,137      | 421,022    | 2,380,139    |
| Net cash farm income  | 275,501      | 61,317    | 135,348      | 261,144    | 421,713      |
| Inventorychange   | 157,209      | 48,224    | 77,785       | 93,144     | 294,801      |
| Depreciation  | -66,085      | -26,346   | -32,333      | -53,475    | -108,209     |
| Net farm income from operations                             | 366,624      | 83,195    | 180,799      | 300,813    | 608,305      |
| Gain or loss on capital sales                               | 10,447       | 431       | 8,626        | 1,525      | 23,004       |
| Average net farm income                                     | 377,071      | 83,626    | 189,426      | 302,337    | 631,309      |
| Median net farm income                                      | 294,840      | 81,957    | 182,210      | 293,020    | 503,494      |
| Profitability (cost)  |              |           |              |            |              |
| Rate of return on assets                                    | 13.9 %       | 10.3 %    | 14.5 %       | 14.1 %     | 13.8 %       |
| Rate of return on equity                                    | 18.6 %       | 11.5 %    | 19.8 %       | 19.4 %     | 18.3 %       |
| Operating profit margin                                     | 30.2 %       | 25.8 %    | 33.0 %       | 34.9 %     | 27.9 %       |
| Asset turnover rate   | 46.0 %       | 39.9 %    | 43.9 %       | 40.4 %     | 49.5 %       |
| Liquidity & Repayment (end of year                          | •            |           |              |            |              |
| Current assets  | 1,136,463    | 226,955   | 469,231      | 760,143    | 2,121,123    |
| Current liabilities   | 364,744      | 35,914    | 145,817      | 230,882    | 700,443      |
| Current ratio   | 3.12         | 6.32      | 3.22         | 3.29       | 3.03         |
| Working capital   | 771,719      | 191,041   | 323,414      | 529,261    | 1,420,680    |
| Working capital to gross inc                                | 52.0 %       | 79.3 %    | 69.0 %       | 68.1 %     | 46.1 %       |
| Term debt coverage ratio                                    | 4.63         | 3.66      | 3.81         | 3.66       | 5.66         |
| Replacement coverage ratio                                  | 3.38         | 2.06      | 2.94         | 2.79       | 3.98         |
| Solvency (end of year at market)                            |              |           |              |            |              |
| Number of farms   | 110          | 6         | 22           | 40         | 39           |
| Total farm assets   | 3,491,321    | 797,094   | 1,908,605    | 3,087,450  | 5,444,380    |
| Total farm liabilities                                      | 1,284,483    | 173,153   | 685,015      | 1,149,598  | 2,002,980    |
| Total assets  | 3,799,785    | 998,288   | 2,177,175    | 3,506,513  | 5,689,969    |
| Total liabilities   | 1,361,818    | 191,960   | 737,640      | 1,240,725  | 2,085,970    |
| Net worth   | 2,437,968    | 806,328   | 1,439,535    | 2,265,788  | 3,603,999    |
| Net worth change  | 471,988      | 61,159    | 262,773      | 479,784    | 677,856      |
| Farm debt to asset ratio                                    | 37 %         | 22 %      | 36 %         | 37 %       | 37 %         |
| Total debt to asset ratio                                   | 36 %         | 19 %      | 34 %         | 35 %       | 37 %         |
| Nonfarm Information   | 20.044       | 24.070    | 27.254       | 24 206     | 05 644       |
| Net nonfarm income  | 30,841       | 24,078    | 37,354       | 31,306     | 25,644       |
| Farms reporting living expenses                             | 42<br>73.004 | -         | 10<br>72 416 | 21         | 10           |
| Total living invest can purch                               | 73,904       | -         | 73,416       | 77,475     | 72,124       |
| Total living, invest, cap. purch                            | 135,406      | -         | 100,148      | 144,583    | 162,706      |
| Crop Acres Total acres owned                                | 216          | 02        | 170          | 225        | 260          |
|   | 216<br>886   | 92<br>287 | 172<br>463   | 225<br>689 | 268<br>1 487 |
| Total crop acres owned                                      | 205          | 287<br>80 |              | 225        | 1,487        |
| Total crop acres owned Total crop acres cash rented         | 205<br>617   | 125       | 147<br>212   | 440        | 254<br>1,150 |
| Total crop acres cash rented  Total crop acres share rented | 63           | 82        | 103          | 25         | 1,150        |
|   | 03           | 02        | 103          | 23         | 03           |

# Financial Summary Southwest Minnesota Farm Business Management Association (Farms Sorted By Farm Type)

|                                    | Avg. Of   | Cuan      | Hom       | Crop and  | Othor     |  |
|------------------------------------|-----------|-----------|-----------|-----------|-----------|--|
|                                    | All Farms | Сгор      | Hog       | Hog       | Other     |  |
| Number of farms                    | 110       | 75        | 5         | 5         | 16        |  |
| Income Statement                   |           |           |           |           |           |  |
| Gross cash farm income             | 1,332,519 | 931,025   | 9,264,922 | 1,481,926 | 549,344   |  |
| Total cash farm expense            | 1,057,018 | 630,317   | 9,149,462 | 1,131,620 | 380,361   |  |
| Net cash farm income               | 275,501   | 300,707   | 115,460   | 350,306   | 168,983   |  |
| Inventory change                   | 157,209   | 130,475   | 951,585   | 28,763    | 38,661    |  |
| Depreciation                       | -66,085   | -62,311   | -171,497  | -73,890   | -38,781   |  |
| Net farm income from operations    | 366,624   | 368,871   | 895,548   | 305,179   | 168,863   |  |
| Gain or loss on capital sales      | 10,447    | 5,500     | 2,913     | 4,763     | 243       |  |
| Average net farm income            | 377,071   | 374,371   | 898,461   | 309,942   | 169,105   |  |
| Median net farm income             | 294,840   | 296,309   | 503,494   | 292,029   | 138,663   |  |
| Profitability (cost)               |           |           |           |           |           |  |
| Rate of return on assets           | 13.9 %    | 14.7 %    | 12.2 %    | 11.1 %    | 13.8 %    |  |
| Rate of return on equity           | 18.6 %    | 19.4 %    | 18.1 %    | 14.6 %    | 23.0 %    |  |
| Operating profit margin            | 30.2 %    | 31.4 %    | 25.5 %    | 23.9 %    | 30.5 %    |  |
| Asset turnover rate                | 46.0 %    | 46.7 %    | 47.8 %    | 46.2 %    | 45.3 %    |  |
| Liquidity & Repayment (end of year | )         |           |           |           |           |  |
| Current assets                     | 1,136,463 | 1,057,462 | 4,043,324 | 1,024,682 | 367,271   |  |
| Current liabilities                | 364,744   | 299,503   | 2,061,955 | 256,745   | 214,354   |  |
| Current ratio                      | 3.12      | 3.53      | 1.96      | 3.99      | 1.71      |  |
| Working capital                    | 771,719   | 757,959   | 1,981,369 | 767,937   | 152,918   |  |
| Working capital to gross inc       | 52.0 %    | 71.7 %    | 19.4 %    | 51.1 %    | 27.0 %    |  |
| Term debt coverage ratio           | 4.63      | 5.83      | 4.57      | 2.57      | 1.53      |  |
| Replacement coverage ratio         | 3.38      | 4.07      | 3.54      | 2.03      | 1.38      |  |
| Solvency (end of year at market)   |           |           |           |           |           |  |
| Number of farms                    | 110       | 75        | 5         | 5         | 16        |  |
| Total farm assets                  | 3,491,321 | 3,319,148 | 8,746,604 | 3,647,181 | 1,695,402 |  |
| Total farm liabilities             | 1,284,483 | 1,227,355 | 3,664,840 | 1,354,771 | 688,086   |  |
| Total assets                       | 3,799,785 | 3,643,930 | 9,056,109 | 3,850,244 | 1,919,327 |  |
| Total liabilities                  | 1,361,818 | 1,311,952 | 3,695,470 | 1,390,792 | 749,581   |  |
| Net worth                          | 2,437,968 | 2,331,978 | 5,360,639 | 2,459,452 | 1,169,746 |  |
| Net worth change                   | 471,988   | 448,121   | 1,183,844 | 547,685   | 222,980   |  |
| Farm debt to asset ratio           | 37 %      | 37 %      | 42 %      | 37 %      | 41 %      |  |
| Total debt to asset ratio          | 36 %      | 36 %      | 41 %      | 36 %      | 39 %      |  |
| Nonfarm Information                |           |           |           |           |           |  |
| Net nonfarm income                 | 30,841    | 34,173    | 1,046     | 39,761    | 26,131    |  |
| Farms reporting living expenses    | 42        | 30        | 1         | 2         | 4         |  |
| Total family living expense        | 73,904    | 77,356    | -         | -         | -         |  |
| Total living, invest, cap. purch   | 135,406   | 142,936   | -         | -         | -         |  |
| Crop Acres                         |           |           |           |           |           |  |
| Total acres owned                  | 216       | 230       | 215       | 257       | 71        |  |
| Total crop acres                   | 886       | 1,001     | 943       | 1,076     | 316       |  |
| Total crop acres owned             | 205       | 217       | 265       | 297       | 69        |  |
| Total crop acres cash rented       | 617       | 714       | 646       | 779       | 208       |  |
| Total crop acres share rented      | 63        | 70        | 32        | _         | 40        |  |

# Financial Summary Southwest Minnesota Farm Business Management Association (Farms Sorted By Debt To Asset Ratio)

|                                    | Avg. Of All Farms | Less than 20% | 20% - 40% | 40% - 60% | 60% - 80% |
|------------------------------------|-------------------|---------------|-----------|-----------|-----------|
| Number of farms                    | 110               | 19            | 44        | 33        | 13        |
| Income Statement                   |                   |               |           |           |           |
| Gross cash farm income             | 1,332,519         | 893,484       | 950,077   | 2,001,937 | 1,647,333 |
| Total cash farm expense            | 1,057,018         | 496,486       | 657,501   | 1,781,606 | 1,442,620 |
| Net cash farm income               | 275,501           | 396,998       | 292,576   | 220,331   | 204,713   |
| Inventory change                   | 157,209           | 10,898        | 133,596   | 224,099   | 277,193   |
| Depreciation                       | -66,085           | -61,102       | -63,856   | -75,422   | -61,234   |
| Net farm income from operations    | 366,624           | 346,794       | 362,317   | 369,007   | 420,671   |
| Gain or loss on capital sales      | 10,447            | 43,652        | 4,530     | 2,801     | 2,155     |
| Average net farm income            | 377,071           | 390,446       | 366,847   | 371,808   | 422,827   |
| Median net farm income             | 294,840           | 301,804       | 298,801   | 292,029   | 241,023   |
| Profitability (cost)               |                   |               |           |           |           |
| Rate of return on assets           | 13.9 %            | 14.7 %        | 14.3 %    | 12.6 %    | 15.2 %    |
| Rate of return on equity           | 18.6 %            | 15.1 %        | 17.5 %    | 19.0 %    | 33.1 %    |
| Operating profit margin            | 30.2 %            | 33.4 %        | 32.5 %    | 29.7 %    | 23.7 %    |
| Asset turnover rate                | 46.0 %            | 43.9 %        | 44.0 %    | 42.4 %    | 64.1 %    |
| Liquidity & Repayment (end of year | -                 |               |           |           |           |
| Current assets                     | 1,136,463         | 1,122,254     | 985,112   | 1,232,954 | 1,490,622 |
| Current liabilities                | 364,744           | 27,992        | 194,593   | 591,016   | 870,213   |
| Current ratio                      | 3.12              | 40.09         | 5.06      | 2.09      | 1.71      |
| Working capital                    | 771,719           | 1,094,261     | 790,518   | 641,938   | 620,409   |
| Working capital to gross inc       | 52.0 %            | 122.4 %       | 73.1 %    | 28.9 %    | 32.5 %    |
| Term debt coverage ratio           | 4.63              | 17.79         | 5.96      | 3.14      | 3.43      |
| Replacement coverage ratio         | 3.38              | 4.48          | 3.87      | 2.69      | 3.19      |
| Solvency (end of year at market)   |                   |               |           |           |           |
| Number of farms                    | 110               | 19            | 44        | 33        | 13        |
| Total farm assets                  | 3,491,321         | 3,305,154     | 3,439,668 | 3,687,241 | 3,639,936 |
| Total farm liabilities             | 1,284,483         | 532,824       | 1,066,983 | 1,608,798 | 2,338,135 |
| Total assets                       | 3,799,785         | 3,680,621     | 3,786,409 | 3,972,757 | 3,799,724 |
| Total liabilities                  | 1,361,818         | 625,163       | 1,138,169 | 1,691,108 | 2,404,888 |
| Net worth                          | 2,437,968         | 3,055,458     | 2,648,240 | 2,281,650 | 1,394,836 |
| Net worth change                   | 471,988           | 480,066       | 479,409   | 476,689   | 452,861   |
| Farm debt to asset ratio           | 37 %              | 16 %          | 31 %      | 44 %      | 64 %      |
| Total debt to asset ratio          | 36 %              | 17 %          | 30 %      | 43 %      | 63 %      |
| Nonfarm Information                |                   | 22            | 20.55     | 2=        | 2         |
| Net nonfarm income                 | 30,841            | 33,774        | 32,624    | 25,712    | 34,295    |
| Farms reporting living expenses    | 42                | 5             | 17        | 15        | 5         |
| Total family living expense        | 73,904            | 66,868        | 70,914    | 66,797    | 112,425   |
| Total living, invest, cap. purch   | 135,406           | 229,101       | 116,501   | 121,797   | 146,813   |
| Crop Acres                         | 242               | 22-           | 222       | 2.12      |           |
| Total acres owned                  | 216               | 267           | 223       | 219       | 121       |
| Total crop acres                   | 886               | 787           | 858       | 788       | 1,418     |
| Total crop acres owned             | 205               | 200           | 219       | 219       | 140       |
| Total crop acres cash rented       | 617               | 525           | 570       | 513       | 1,209     |
| Total crop acres share rented      | 63                | 62            | 69        | 57        | 70        |

# Financial Summary Southwest Minnesota Farm Business Management Association (Farms Sorted By Age Of Operator)

|                                  | Avg. Of<br>All Farms | Less<br>Than 31 | 31 - 40   | 41 - 50   | 51 - 60   | Over 60  |
|----------------------------------|----------------------|-----------------|-----------|-----------|-----------|----------|
| Number of farms                  | 110                  | 7               | 19        | 13        | 46        | 2        |
| Income Statement                 |                      |                 |           |           |           |          |
| Gross cash farm income           | 1,332,519            | 1,640,681       | 906,842   | 835,273   | 1,684,607 | 1,180,47 |
| Total cash farm expense          | 1,057,018            | 1,466,494       | 644,529   | 540,714   | 1,415,348 | 865,008  |
| Net cash farm income             | 275,501              | 174,187         | 262,312   | 294,559   | 269,259   | 315,46   |
| Inventory change                 | 157,209              | 447,208         | 58,322    | 65,438    | 194,411   | 130,43   |
| Depreciation                     | -66,085              | -66,147         | -55,836   | -56,345   | -75,811   | -61,02   |
| Net farm income from operations  | 366,624              | 555,249         | 264,798   | 303,652   | 387,858   | 384,87   |
| Gain or loss on capital sales    | 10,447               | 704             | 899       | 1,449     | 4,487     | 36,07    |
| Average net farm income          | 377,071              | 555,953         | 265,698   | 305,100   | 392,346   | 420,94   |
| Median net farm income           | 294,840              | 188,467         | 230,797   | 275,787   | 303,530   | 343,51   |
| Profitability (cost)             |                      |                 |           |           |           |          |
| Rate of return on assets         | 13.9 %               | 17.5 %          | 14.2 %    | 14.6 %    | 13.0 %    | 14.2 %   |
| Rate of return on equity         | 18.6 %               | 30.1 %          | 20.8 %    | 18.3 %    | 17.7 %    | 17.0 %   |
| Operating profit margin          | 30.2 %               | 22.8 %          | 29.8 %    | 31.5 %    | 31.0 %    | 32.5 %   |
| Asset turnover rate              | 46.0 %               | 76.7 %          | 47.6 %    | 46.4 %    | 41.8 %    | 43.8 %   |
| Liquidity & Repayment (end of y  | -                    |                 |           |           |           |          |
| Current assets                   | 1,136,463            | 1,917,419       | 707,894   | 897,177   | 1,216,411 | 1,220,83 |
| Current liabilities              | 364,744              | 860,137         | 250,837   | 217,095   | 444,094   | 243,37   |
| Current ratio                    | 3.12                 | 2.23            | 2.82      | 4.13      | 2.74      | 5.0      |
| Working capital                  | 771,719              | 1,057,282       | 457,057   | 680,082   | 772,317   | 977,45   |
| Working capital to gross inc     | 52.0 %               | 50.5 %          | 47.5 %    | 76.6 %    | 41.0 %    | 76.3 %   |
| Term debt coverage ratio         | 4.63                 | 7.65            | 4.48      | 4.72      | 3.82      | 6.2      |
| Replacement coverage ratio       | 3.38                 | 6.90            | 3.66      | 3.09      | 2.89      | 3.7      |
| Solvency (end of year at market  |                      |                 |           |           |           |          |
| Number of farms                  | 110                  | 7               | 19        | 13        | 46        | 2        |
| Total farm assets                | 3,491,321            | 3,712,975       | 2,066,019 | 2,993,735 | 4,028,894 | 3,782,09 |
| Total farm liabilities           | 1,284,483            | 2,308,396       | 892,593   | 998,570   | 1,478,736 | 1,086,87 |
| Total assets                     | 3,799,785            | 3,849,370       | 2,195,326 | 3,438,317 | 4,328,435 | 4,220,53 |
| Total liabilities                | 1,361,818            | 2,352,860       | 960,212   | 1,107,629 | 1,557,443 | 1,161,77 |
| Net worth                        | 2,437,968            | 1,496,511       | 1,235,114 | 2,330,688 | 2,770,991 | 3,058,76 |
| Net worth change                 | 471,988              | 454,304         | 205,925   | 618,842   | 521,312   | 512,02   |
| Farm debt to asset ratio         | 37 %                 | 62 %            | 43 %      | 33 %      | 37 %      | 29 9     |
| Total debt to asset ratio        | 36 %                 | 61 %            | 44 %      | 32 %      | 36 %      | 28 %     |
| Nonfarm Information              |                      |                 |           |           |           |          |
| Net nonfarm income               | 30,841               | 37,361          | 30,210    | 28,837    | 33,129    | 26,32    |
| Farms reporting living expenses  | 42                   | 1               | 8         | 6         | 18        |          |
| Total family living expense      | 73,904               | -               | 59,132    | 105,841   | 77,479    | 61,75    |
| Total living, invest, cap. purch | 135,406              | -               | 81,622    | 145,632   | 147,306   | 158,96   |
| Crop Acres                       |                      |                 |           |           |           |          |
| Total acres owned                | 216                  | 82              | 81        | 141       | 260       | 31       |
| Total crop acres                 | 886                  | 1,993           | 703       | 788       | 845       | 84       |
| Total crop acres owned           | 205                  | 71              | 103       | 147       | 249       | 27       |
| Total crop acres cash rented     | 617                  | 1,922           | 487       | 618       | 519       | 533      |
| Total crop acres share rented    | 63                   | -               | 112       | 23        | 77        | 3        |

## Appendix I Whole Farm Analysis Procedures and Measures

The whole-farm reports include summary financial statements and measures for all farms included in this report. Rounding of individual items may have caused minor discrepancies between those items and the printed totals which are calculated before rounding.

### **Financial Summary**

This table summarizes key measures reported in several of the following tables.

#### Income Statement

This section summarizes key totals from the Income Statement table. *Average Net Farm Income* is the mean or average farm earnings of the group calculated on an accrual adjusted basis. *Median Net Farm Income* is the farm earnings of the median or middle farm in the group. If it is lower than the average, the average earnings are skewed because some farms had much higher earnings than the rest of the group. If it is higher than the average, the average earnings are skewed because some farms had much lower earnings than the rest of the group.

#### **Profitability**

See the Profitability Measures section below for an explanation of these measures.

#### Liquidity and Repayment

See the Financial Standards Measures and Liquidity Measures sections below for an explanation of these measures.

#### Solvency

This section summarizes key measures from the Balance Sheet reports.

#### Nonfarm Information

This section summarizes non-farm earnings for all farms and family living withdrawals for those sole proprietors who kept accurate family living records. More detail is included on the Household and Personal Expenses and Nonfarm Summary pages.

#### Crop Acres

This section summarizes acres used for cropping from the Crop Production and Marketing table.

#### **Financial Standards Measures**

This table contains the Farm Financial Standards Council's 21 financial measures for evaluating a farm's financial position and performance.

#### Liquidity

*Current Ratio* is calculated by dividing the total current farm assets by the total current farm liabilities.

Working Capital is calculated by subtracting current farm liabilities from current farm assets.

Working Capital to Gross Income is Working Capital divided by Gross Revenues (accrual).

#### Solvency

Farm Debt to Asset Ratio is calculated by dividing the total farm liabilities by the total farm assets. It measures the proportion of farm assets financed by debt capital.

Farm Equity to Asset Ratio is calculated by dividing farm equity or net worth by the total farm assets. It measures the proportion of the farm assets financed by the owner's equity as opposed to debt. This is the opposite of the debt to asset ratio. These two measures always add up to 100% because they describe how total farm assets are financed.

Farm Debt to Equity Ratio measures farm debt relative to farm equity. It is calculated by dividing the total farm liabilities by the total farm net worth. The debt to equity ratio measures the amount of borrowed capital being employed for every dollar of equity capital.

### **Profitability**

Rate of Return on Farm Assets can be thought of as the average interest rate being earned on all investments in the farm or ranch business. If assets are valued at market value, the rate of return on assets can be looked at as the "opportunity cost" of farming versus alternate investments. If assets are valued at cost value, the rate of return on assets more closely represents the actual return on the average dollar invested in the farm. The rate of return on farm assets is calculated as follows: Rate of Return on Assets = Return on Farm Assets ÷ Average Farm Investment, where: Return on Farm Assets = Net Farm Income + Farm Interest - Value of Operator's Labor & Management, and Average Farm Investment = (Beginning Total Farm Assets + Ending Total Farm Assets) ÷ 2.

Rate of Return on Farm Equity represents the interest rate being earned on farm net worth. If assets are valued at market value, this return can be compared to returns available if the assets were liquidated and invested in alternate investments. If assets are valued at cost value, this more closely represents the actual return on the funds that have been invested or retained in the business. The rate of return on farm equity is calculated as follows: Rate of Return on Equity = Return on Farm Equity  $\div$  Average Farm Net Worth, where: Return on Farm Equity = Net Farm Income - Value of Operator's Labor & Management, and Average Farm Net Worth = (Beginning Farm Net Worth + Ending Farm Net Worth)  $\div$  2.

Operating Profit Margin is a measure of the operating efficiency of the business. It is calculated as follows: Operating Profit Margin = Return to Farm Assets ÷ Value of Farm Production. If expenses are held in line relative to the value of output produced, the farm will have a healthy operating profit margin. A low net profit margin may be caused by low prices, high operating expenses, or inefficient production.

*Net Farm Income* represents the returns to unpaid labor, management, and equity capital invested in the business.

EBITDA is Earnings Before Interest, Taxes, Depreciation and Amortization. It is Net Farm Income from Operations from the income statement plus interest expense and depreciation expense. This measure is common in commercial financial analysis but is not commonly used in agriculture.

#### Repayment Capacity

Capital Debt Repayment Capacity is Net Farm Income From Operations plus Depreciation, Personal Income, and Interest on Term Debt minus Family Living/Owner Withdrawals, Payments on Personal Debt and Income Taxes Paid. This represents total earnings available for debt repayment and cash capital replacement.

Capital Debt Repayment Margin is Capital Debt Repayment Capacity minus Scheduled Term Debt Payments. This is the amount by which earnings available for debt repayment exceeded payments due.

Replacement Margin is Capital Debt Repayment Margin minus Cash Replacement Allowance. This is the amount by which earnings available for debt repayment and replacement exceed payments due and cash replacement needs.

Term Debt Coverage Ratio measures whether the business generated enough income to cover term debt payments. It is calculated by dividing the funds generated by the business for debt repayment (net cash farm income + nonfarm income + interest expense - family living expense - income taxes) by total term debt payments (annual scheduled principal and interest payments on intermediate and long term debt). A ratio less than 1.0 indicates that the business did not generate sufficient cash to meet scheduled payments in the past year. A ratio greater than 1.0 indicates the business generated enough cash to pay all term debt payments.

Replacement Coverage Ratio measures whether the business generated enough income to cover scheduled term debt payments plus estimated cash capital replacement needs. A ratio less than 1.0 indicates that the business did not generate sufficient income to meet replacement needs. A ratio greater than 1.0 indicates the business generated enough income to pay all term debt payments and cover an allowance for capital replacement.

#### **Efficiency**

Asset Turnover Rate is a measure of efficiency in using capital. It is calculated as follows: Asset Turnover Rate = Value of Farm Production ÷ Total Farm Assets.

The last four ratios reflect the distribution of gross income to cover operating expenses and generate farm income. The sum of the operating expense ratio, the depreciation expense ratio, and the interest expense ratio equals the percent of gross income used to pay business expenses. The amount remaining is net farm income. The gross farm income used to calculate these ratios is the accrual gross farm income.

*Operating Expense Ratio* is calculated as (Total Farm Operating Expense - Farm Interest Expense) ÷ Gross Farm Income. This ratio indicates the percent of the gross farm income that

was used to pay operating expenses. Total farm operating expense is the accrual total operating expense.

Depreciation Expense Ratio is calculated as Depreciation ÷ Gross Farm Income. This ratio indicates the percent of the gross farm income that was used to cover depreciation and other capital adjustments.

Interest Expense Ratio is calculated as Farm Interest Expense ÷ Gross Farm Income. This ratio indicates the percent of the gross farm income used for farm interest expenses. This is the same ratio as the accrual interest as a percent of income from the Liquidity table.

*Net Farm Income Ratio* is calculated as Net Farm Income ÷ Gross Farm Income. This ratio indicates the percent of the gross farm income that remained after all expenses.

#### **Farm Income Statement**

The Farm Income Statement is a summary of income, expenses, and resultant profit or loss from farming operations during the calendar year. The first section lists cash farm income from all sources. The second section lists *cash* expenses. "Interest" includes only interest actually paid. No opportunity charges on farm equity capital or unpaid labor are included. The difference between *Gross Cash Farm Income* and *Total Cash Expense* is the *Net Cash Farm Income*. This is net farm income on a *cash* basis.

The third and fourth sections deal with noncash changes in the farm business. The *Inventory Changes* and *Depreciation* sections are used to convert the cash income statement (Net Cash Farm Income) derived from the first two sections into an accrual income statement. The resulting "Net Farm Income" represents the return to the operator's and family's unpaid labor, management, and equity capital (net worth). In other words, it represents the return to all of the resources which are owned by the farm family and, hence, not purchased or paid a wage. However, it does not include any asset appreciation, debt forgiveness or asset repossessions.

## **Profitability Measures**

Profitability is measured using assets valued first at cost and then at market. The reports include five measures of profit followed by the values used to calculate the measures.

*Net Farm Income* is repeated from the Farm Income Statement report. When assets are valued at market, it includes the change in market valuation of capital for the year.

Rate of Return on Assets is the Return to Farm Assets divided by Average Farm Assets.

Rate of Return on Equity is the Return to Farm Equity divided by Average Farm Equity.

Operating Profit Margin is the Return to Farm Assets divided by Value of Farm Production.

*Asset Turnover Rate* is the *Value of Farm Production* divided by *Average Farm Assets*.

Farm Interest Expense is the accrued interest cost so it will be different from the cash interest paid shown in the Farm Income Statement.

*Value of Operator's Labor and Management* is its opportunity cost. It is assigned by farm within suggested guidelines.

Return on Farm Assets is calculated by adding Farm Interest Expense and Net Farm Income and then subtracting the Value of Operator's Labor and Management.

Average Farm Assets is the average of beginning and ending total farm assets for all farms, not just those included in the Balance Sheet report.

Return to Farm Equity is calculated by subtracting the Value of Operator's Labor and Management from Net Farm Income.

Average Farm Equity is the average of beginning and ending farm net worth.

*Value of Farm Production* is gross farm income minus feeder livestock and feed purchased and adjusted for inventory changes in crops, market livestock and breeding livestock.

### **Liquidity and Repayment Capacity Measures**

Current Ratio is total Current Assets divided by total Current Liabilities.

Working Capital is total Current Assets minus total Current Liabilities.

Working Capital to Gross Income is Working Capital divided by Gross Revenues (accrual).

*Current Assets* are taken from the ending balance sheet and include all assets that will be sold or used up in production within one business year.

Current Liabilities are taken from the ending balance sheet and include all loans and other debt due to be repaid within one business year. Principal due within a twelve months on intermediate and long term loans is included.

*Gross Revenues (accrual)* is gross cash farm income from the income statement adjusted for inventory changes in crops and feed, market livestock, accounts receivable, hedging accounts, breeding livestock and other income related inventories.

*Net Farm Income from Operations* is from the Income Statement.

*Depreciation* is the total depreciation from the Income Statement. It is added as a source of repayment because it is a non-cash expense that was subtracted to arrive at *Net Farm Income From Operations*.

Personal Income is the average for all farms, not including Gifts and Inheritances.

Family Living/Owner Withdrawals is the amount of owner withdrawals for family living, partnership withdrawals, and corporate dividends. Reported withdrawals are adjusted to include any discrepancy with actual cash disappearance.

Payments on personal debt is the total principal payments made during the year on all non-farm loans.

*Income Taxes Paid* are total federal, state, and social security taxes paid during the year on farm and personal earnings.

*Interest on Term Debt* is the amount of interest paid on intermediate and long term loans during the year. Interest is added as a source of repayment because it was previously subtracted to arrive at *Net Farm Income from Operations*.

Capital Debt Repayment Capacity is Net Farm Income From Operations plus Depreciation, Personal Income, and Interest on Term Debt minus Family Living/Owner Withdrawals, Payments on Personal Debt and Income Taxes Paid. This represents total earnings available for debt repayment and cash capital replacement.

Scheduled Term Debt Payments is the scheduled amount of principal and interest payments due on farm intermediate and long term loans from the beginning balance sheet.

Capital Debt Repayment Margin is Capital Debt Repayment Capacity minus Scheduled Term Debt Payments. This is the amount by which earnings available for debt repayment exceeded payments due.

Cash Replacement Allowance is the estimated amount of cash needed to cover the portion of capital replacement needs that normally come from cash flow. It is estimated for each operator based on their financial structure.

Replacement Margin is Capital Debt Repayment Margin minus Cash Replacement Allowance. This is the amount by which earnings available for debt repayment and replacement exceed payments due and cash replacement needs.

Term Debt Coverage Ratio is Capital Debt Repayment Capacity divided by Scheduled Term Debt Payments. This is how many times scheduled payments are covered by repayment capacity.

Replacement Coverage Ratio is Capital Debt Repayment Capacity divided by the total of Scheduled Term Debt Payments and the Cash Replacement Allowance. This represents how many times scheduled payments and cash replacement needs are covered by repayment capacity.

#### **Balance Sheets at Cost and Market Values**

These tables include all farm and personal assets and liabilities reported by these farms on their beginning and ending balance sheets. Government crop loans are treated consistently as loans

on these tables, meaning that the full asset value is included as an asset and total accrued interest and outstanding principal balances are included as liabilities. Capital assets are valued at original purchase price minus economic depreciation on the Cost Value table. Assets are valued at a conservative market value on the Market Value table. Deferred liabilities are included on the Market Value table. Deferred liabilities are an estimate of the taxes that would be due if the business was liquidated on the date of the balance sheet.

#### **Statement of Cash Flows**

This table reports the sources from which cash was available or obtained and where that cash was used or remains at the end of the year.

## **Crop Production and Marketing Summary**

This table contains three sections. The first section reports average acreage by tenure and general use. The next two sections show average price received from cash sales and average yields for major crops.

## **Household and Personal Expenses**

For those farms that kept records, the household and personal expenses are summarized in this table. Since not all farms keep these records, the number of farms may be different for each group. Averages are determined by the number of farms keeping these records.

## **Operator and Labor Information**

This table has four sections. The first reports the averages for the number of operators per farm, the operator's age, and the number of years farming. The second section reports various measures and results per operator compared to per farm in other reports.

The third section reports the amount of labor used and the returns to that labor. *Total Unpaid Labor Hours* and *Total Hired Labor Hours* are based on farmers' estimates of labor use. No labor records are kept for unpaid labor. *Value of Farm Production/Hour* is the Value of Farm Production divided by Total Labor Hours per Farm. *Net Farm Income/Unpaid Hour* is Net Farm Income divided by Total Unpaid Labor Hours.

The fourth section reports the number of partnerships and withdrawals in each grouping.

## **Nonfarm Summary**

This table reports the income from nonfarm sources which is included in a farmer's total net income. Not all farms have nonfarm income, but the figure reported is the average over all farms not just those reporting nonfarm income. Also reported are the beginning and ending values for nonfarm assets for all farms (not just sole proprietors).

## Appendix II Crop Enterprise Analysis Procedures and Measures

The Crop Enterprise Analysis tables show the profitability of each crop enterprise produced by five or more farms.

*Gross Return* is the average Yield multiplied by the Value Per Unit plus any other production or income related to the crop. Value Per Unit for cash crops is the average sales price for crops sold before the end of the year and the average ending inventory value for crops remaining unsold. For feed crops, it is the estimated harvest-time value. LDP payments and other commodity-specific income are added to estimate the total value received for crop production.

*Direct Expenses* include expenses that are directly related to the production of the specific crop. Most direct expenses are directly assigned to production of the crop and simply divided by acres. Some, such as Fuel and Oil and Repairs, which are difficult to assign directly to specific fields or crops, are determined by allocating the total annual expense across all enterprises using allocation factors entered for each crop.

Overhead Expenses are also determined by allocating the total annual expense across all enterprises using allocation factors entered for each crop.

Net Return per Acre is the Gross Return per Acre minus Total Direct and Overhead Expenses.

Net return with government payments is Net Return per Acre plus Government Payments. Government Payments includes only direct payments and counter-cyclical payments. Payments that are directly attached to production of the crop, such as LDP and disaster payments are included in Gross Return. Because direct government payments have been decoupled from actual production, these payments are generally allocated to all crops excluding vegetables and pasture. This is done for each farm by allocating the direct payments from the whole farm to these crops.

*Net Return over Labor and Management* is calculated by allocating the farmer's charge for unpaid labor and management across all enterprises and subtracting it from Net Return With Government Payments.

Cost of Production is calculated by dividing the total expense for each category by the yield per acre. Total Expense Less Government and Other Income is total expense minus government payments, income from secondary products, and other income, divided by yield per acre.

*Machinery Cost Per Acre* is the sum of fuel and oil, repairs, custom hire expense, machinery lease payments, machinery depreciation, and interest on intermediate debt divided by acres.

Estimated Labor Hours Per Acre is calculated by allocating the farmer's estimate of total operator and hired labor hours for the year across all enterprises.

Rounding of individual items for the report may have caused minor discrepancies with the calculated totals. If fewer than 5 farms have a certain crop enterprise, that information is not reported. If there are fewer than 25 farms, the high and low groups are not reported.

## Appendix III Livestock Enterprise Analysis Procedures and Measures

The Livestock Enterprise Analysis tables show the profitability of each livestock enterprise produced by five or more farms.

*Gross Margin* includes product and livestock sales, cull sales, the value of offspring transferred out of the enterprise, the value of inventory change from beginning to end of year, and any other income assigned to the enterprise. Livestock purchases and the value of animals transferred in from other enterprises are subtracted.

*Direct Expenses* include expenses that are directly related to the specific livestock enterprise. Feed and most other direct expenses are directly assigned based on farm records. Some, such as Fuel and Oil and Repairs, which are difficult to assign directly to enterprises, are determined by allocating the total annual expense across all enterprises using allocation factors entered for each farm

Overhead Expenses are also determined by allocating the total annual expense across all enterprises using allocation factors entered for each farm.

*Net Return* is the Gross Return minus Total Direct and Overhead Expenses.

*Net Return over Labor and Management* is calculated by allocating the farmer's charge for unpaid labor and management across all enterprises and subtracting it from Net Return.

*Estimated Labor Hours* is calculated by allocating the farmer's estimate of total operator and hired labor hours for the year across all enterprises.

Cost of Production is calculated by dividing the total expense for each category by Total Production. For grow/finish enterprises, the Purchases and Transfers In are included in direct expense. Cull sales, other offspring sales, and any other miscellaneous income are subtracted and replacement purchases and transfers in are added to arrive at the cost With other revenue adjustments. With Labor and Management is the cost with other revenue adjustments plus the producer's charge for operator's labor and management. This is the breakeven price for the primary product to provide a return for operator labor and management.

The last section of each livestock table contains both economic and technical efficiency measures. *Lbs. feed per lb. of gain* is the pounds of total feed divided by Total production. For grains, these pounds per bushel are used: corn, 56; oats, 32; barley, 48; grain sorghum, 56; wheat, 60; and millet, 48. For these forages, the units are converted to pounds and then adjusted by these factors: alfalfa haylage, 0.5; corn silage, 0.33; oatlage, 0.5; sorghum silage, 0.33; and small grain silage, 0.33.

The calving and weaning percentages are calculated as the number of calves which are calved and weaned, respectively, divided by the number of cows which are supposed to bear young.

Rounding of individual items for the report may have caused minor discrepancies with the calculated totals. If fewer than 5 farms have a certain livestock enterprise, that information is not reported. If there are fewer than 25 farms, the high and low groups are not reported.

## Appendix IV Prices Used In the Analysis Report

|                              | Beginning |          | Ending    |
|------------------------------|-----------|----------|-----------|
| Item                         | Inventory | Feed     | Inventory |
| All Corn/bu.                 | 6.25      | 6.83     | 6.88      |
| Oats/bu.                     | 3.40      | 3.60     | 3.70      |
| All Wheat/bu.                | 8.90      | 8.03     | 8.37      |
| Soybeans/bu.                 | 11.46     | 14.22    | 13.82     |
| Alfalfa hay/t. (avg quality) | 110.00    | 205.00   | 240.00    |
| Alfalfa hay/t. (dairy qual)  | 120.00    | 205.00   | 240.00    |
| Alfalfa haylage/t            | 55.00     | 93.00    | 105.00    |
| Grass/Mixed hay/r            | 100.00    | 141.00   | 178.00    |
| Corn silage/t.               | 35.00     | 54.00    | 55.00     |
| Oats straw/bale/ton          | 3.75/125  | 3.75/125 | 3.75/125  |
| Cornstalks/t.                | 30.00     | 30.00    | 30.00     |
| Oatlage/t.                   | 16.00     | 17.50    | 17.50     |

Enterprise production valued at actual selling price if sold or contracted, inventory price for balance. All feeds are valued on an as fed moisture basis.

#### **Other Prices Used:**

Pasture: \$50.00/acre Value of milk fed calves \$1.50/gallon

Depreciation is calculated by using a 5% rate for buildings, 10% for machinery, 20% for beef cattle and sheep and 33% for breeding hogs and dairy cows. The economic depreciation is calculated by taking the beginning cost (book) value, plus new purchases (boot), less book value of sold items multiplied by the appropriate percentage rate.

Value of operator's labor is calculated by using this formula: For sole proprietors and partnerships, labor and management is valued at \$20,000 per operator plus 5% of the value of farm production, with a minimum of \$30,000 for a full-time farm operator.

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