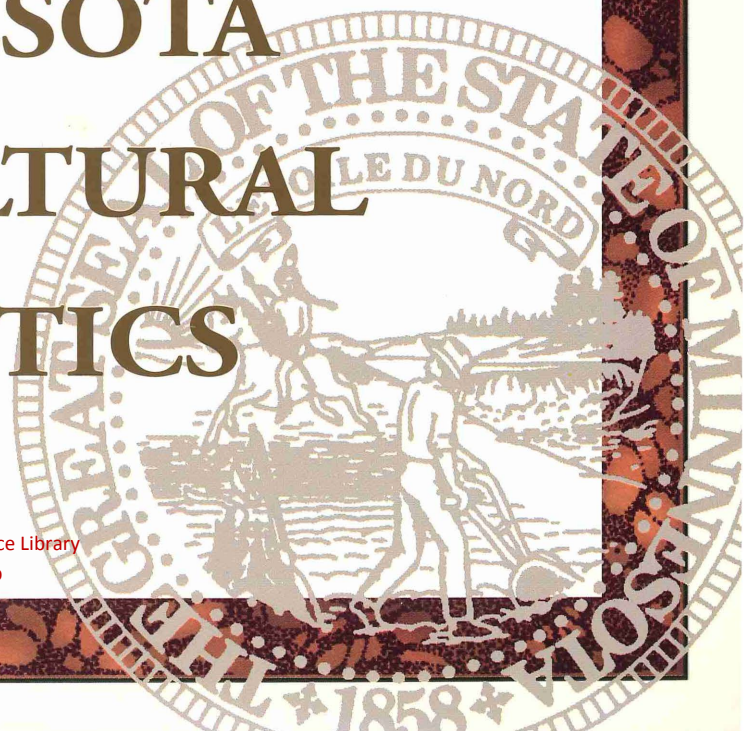


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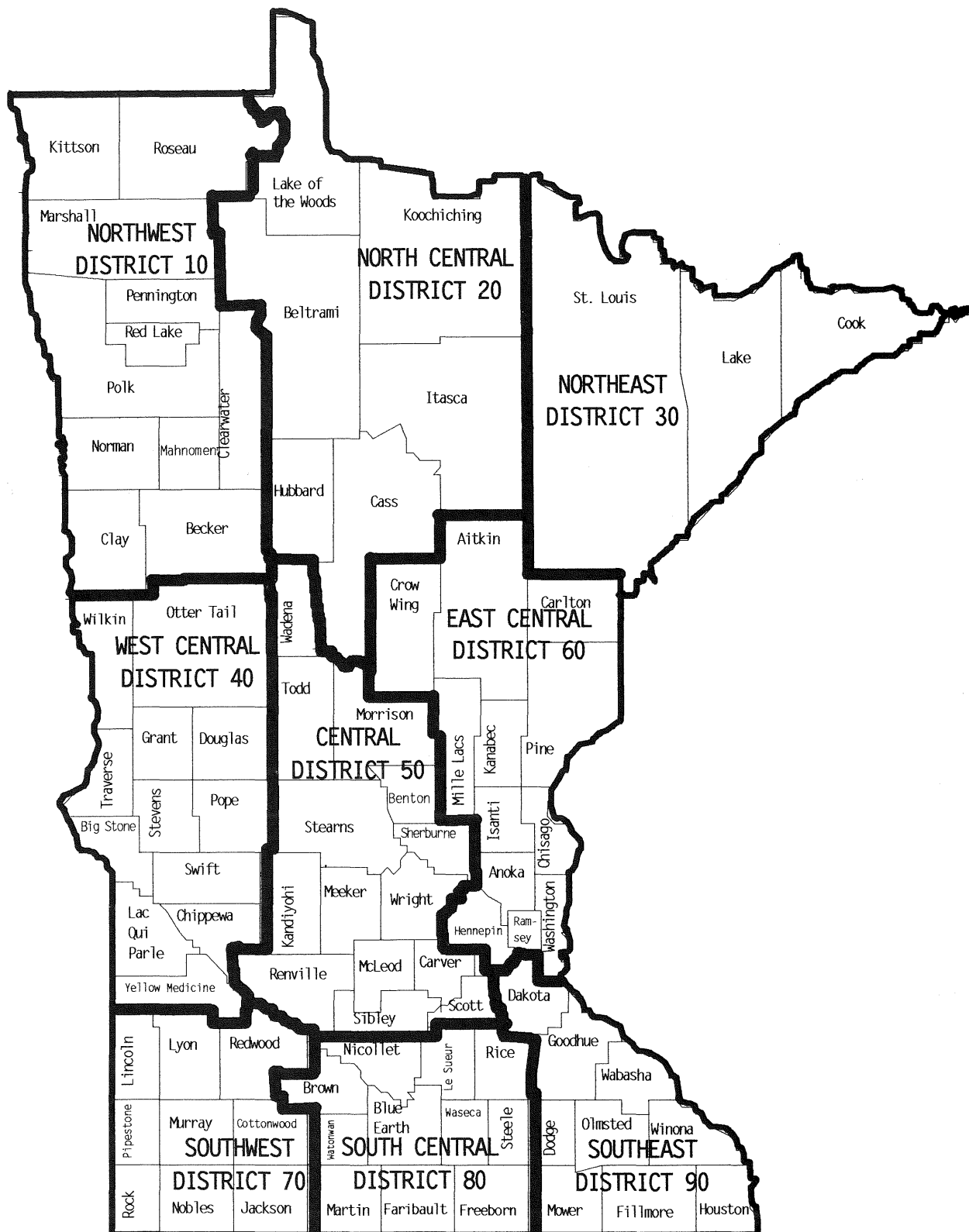


1998

MINNESOTA AGRICULTURAL STATISTICS



MINNESOTA'S AGRICULTURAL STATISTICS DISTRICTS



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Minnesota Agricultural Statistics

1998

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Foreword

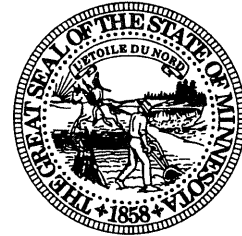
At the Minnesota Department of Agriculture, we use statistics to tell the story of Minnesota agriculture. Sometimes the story is good, as we see with agriculture being the third-fastest growth industry in Minnesota, with a 92 percent growth rate from 1980 to 1990. Sometimes those statistics aren't so good, with the state losing 1,000 dairy farmers a year. But without good data, it would be impossible for us to provide a clear, accurate picture of what's happening out in the countryside to those in the offices and meeting rooms of St. Paul or Washington, D.C. That information is often the basis for major public policy decisions, including legislation. In addition, statistics are used by private business and farmer-owned cooperatives to determine where goods and services are most needed, or where the next value-added facility should be located.

Information supplied by farmers and agribusinesses helps us produce this annual **Minnesota Agricultural Statistics** book, which is used throughout the industry as a report card for Minnesota agriculture. This year, farmers have also participated in the nationwide 1997 Census of Agriculture. The information we will glean from this census will help shape decisions in the public and private sectors for years to come.

I want to express my gratitude to all the farmers and agribusinesses who made this book possible by responding to surveys conducted by the Minnesota Agricultural Statistics Service.



Gene Hugoson, Commissioner
Minnesota Department of Agriculture



Minnesota is one of the strongest agricultural states in the nation, ranking among the top 10 states in both crop and livestock production. This book provides the details of Minnesota agriculture for the 1997 crop year and livestock statistics for the first part of 1998. Information from previous years is included for comparison. Crop and livestock data are also broken down by county in the book. The county by county breakdowns are some of the most sought after statistics we publish.

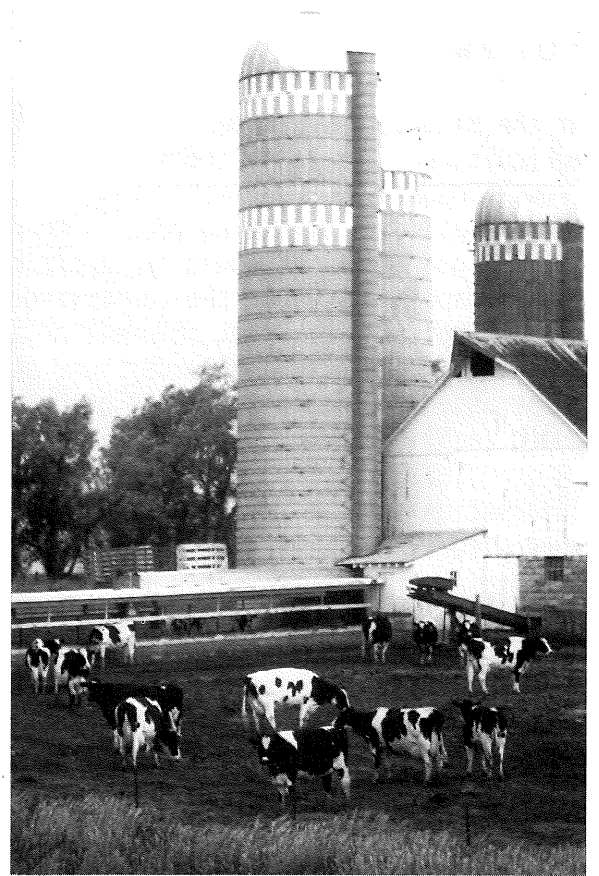
We hope you find this book useful, and we are always open to suggestions for improvements. The contents of this book are also available on our web page, along with other reports prepared by my office and links to other sites containing statistical information. Visit our web page at <http://www.nass.usda.gov/mn/>.



Michael Hunst, State Statistician
Minnesota Agricultural Statistics Service

Section 1

*Ag Rankings,
Land Values,
Farm Numbers,
Farm Income,
Weather Summary*



STATE RANKINGS: MINNESOTA'S RANK AMONG STATES

| Item | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Cash Receipts, 1996: | | | | | | | | | | |
| Total | CA | TX | IA | NE | IL | <u>MN</u> | KS | NC | FL | WI |
| Livestock & Livestock Products | TX | CA | IA | NE | KS | NC | WI | <u>MN</u> | AR | GA |
| Crops | CA | IA | IL | TX | FL | <u>MN</u> | NE | WA | IN | NC |
| Crop Production, 1997: | | | | | | | | | | |
| Corn | IA | IL | NE | <u>MN</u> | IN | OH | WI | KS | SD | MO |
| Soybeans | IA | IL | <u>MN</u> | IN | OH | MO | NE | SD | AR | KS |
| All Wheat | KS | ND | MT | OK | WA | TX | ID | SD | CO | <u>MN</u> |
| Spring Wheat | ND | MT | <u>MN</u> | SD | ID | WA | OR | CO | UT | WY |
| Oats | WI | ND | <u>MN</u> | IA | SD | PA | OH | NY | TX | IL |
| Barley | ND | MT | ID | WA | <u>MN</u> | CO | CA | WY | OR | UT |
| All Sunflowers | ND | SD | KS | <u>MN</u> | CO | TX | NE | | | |
| Dry Edible Beans | ND | MI | NE | CA | <u>MN</u> | CO | ID | WA | WY | NY |
| All Hay | TX | CA | SD | MO | KS | NE | <u>MN</u> | WI | KY | MT |
| All Potatoes | ID | WA | CO | WI | OR | ND | <u>MN</u> | ME | CA | MI |
| Sugarbeets | <u>MN</u> | ID | ND | MI | CA | CO | WY | MT | NE | OR |
| Flax | ND | SD | <u>MN</u> | | | | | | | |
| Rye | GA | OK | SD | ND | <u>MN</u> | SC | WI | NC | MI | PA |
| Sweet Corn for Processing | <u>MN</u> | WA | WI | OR | NY | ID | IL | PA | | |
| Green Peas for Processing | <u>MN</u> | WA | WI | OR | NY | | | | | |
| Cultivated Wild Rice 1/ | CA | <u>MN</u> | | | | | | | | |
| Livestock, Dairy, Poultry: | | | | | | | | | | |
| Red Meat Production, 1997 | NE | KS | IA | TX | IL | <u>MN</u> | CO | NC | WI | PA |
| Cattle/Calves, January 1, 1998 2/ | TX | NE | KS | OK | CA | MO | IA | WI | SD | CO |
| Milk Cows, January 1, 1998 | WI | CA | NY | PA | <u>MN</u> | TX | MI | ID | OH | WA |
| Cattle/Calves Marketed, 1997 3/ | TX | KS | NE | OK | CO | CA | IA | SD | MO | MT |
| Cattle/Calves on Feed, Jan 1, 1998 | TX | KS | NE | CO | IA | OK | CA | SD | ID | <u>MN</u> |
| Hogs, December 1, 1997 | IA | NC | <u>MN</u> | IL | IN | NE | MO | OK | OH | KS |
| Pig Crop, 1997 | NC | IA | <u>MN</u> | IL | MO | IN | NE | OK | KS | OH |
| Hogs Marketed, 1997 | IA | NC | <u>MN</u> | IL | MO | IN | NE | OK | KS | OH |
| All Sheep & Lambs, Jan 1, 1998 4/ | TX | CA | WY | CO | MT | SD | UT | ID | OR | NM |
| Lamb Crop, 1997 4/ | TX | WY | MT | SD | CA | UT | ID | IA | CO | OR |
| All Chickens, December 1, 1997 5/ | OH | CA | GA | IN | PA | IA | AR | TX | NC | AL |
| Eggs Produced, Dec 1996-Nov 1997 | OH | CA | PA | IN | IA | GA | TX | AR | <u>MN</u> | NC |
| Turkeys Raised, 1997 | NC | <u>MN</u> | AR | VA | MO | CA | IN | PA | SC | IA |
| Milk Production, 1997 | CA | WI | NY | PA | <u>MN</u> | TX | MI | WA | ID | OH |
| Dairy Products Manufactured, 1997: | | | | | | | | | | |
| Total Cheese | WI | CA | <u>MN</u> | NY | ID | PA | IA | NM | MO | SD |
| American Cheese | WI | <u>MN</u> | CA | ID | IA | NY | WA | NM | SD | OR |
| Italian Cheese | WI | CA | NY | PA | <u>MN</u> | SD | VT | ID | | |
| Butter | CA | WI | WA | PA | <u>MN</u> | TN | NY | OR | ND | |
| Ice Cream | CA | IN | TX | <u>MN</u> | OH | IL | NY | FL | NC | WA |
| Mink Pelts Produced, 1996 | WI | UT | <u>MN</u> | OR | ID | WA | IA | SD | OH | PA |
| Honey Produced, 1997 | CA | ND | FL | SD | MT | <u>MN</u> | TX | ID | MI | WI |
| Agricultural Exports, Fiscal 1997: | | | | | | | | | | |
| | CA | IA | IL | NE | TX | KS | <u>MN</u> | IN | WA | AR |

1/ SOURCE: MINNESOTA CULTIVATED WILD RICE COUNCIL

2/ Minnesota and Montana tied for 11th place.

3/ Minnesota ranks 14th.

4/ Minnesota ranks 12th.

5/ Minnesota ranks 11th.

COUNTY RANKINGS: MINNESOTA'S LEADING AGRICULTURAL COUNTIES

| Item | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|
| 1996 Cash Farm Receipts: | | | | | | | | | | |
| Total | Stearns | Renville | Polk | Kandiyohi | Redwood | Otter Tail | Martin | Nobles | Jackson | Blue Earth |
| Crops | Polk | Renville | Redwood | Clay | Faribault | Martin | Jackson | Marshall | Chippewa | Mower |
| Livestock | Stearns | Kandiyohi | Otter Tail | Morrison | Goodhue | Fillmore | Todd | Sibley | Redwood | Winona |
| Government Payments | Polk | Marshall | Kittson | Roseau | Norman | Otter Tail | Clay | Fillmore | Stearns | Renville |
| 1997 Crop Production: | | | | | | | | | | |
| Corn for Grain | Martin | Renville | Redwood | Faribault | Freeborn | Mower | Blue Earth | Jackson | Yellow Med | Nobles |
| Soybeans | Renville | Redwood | Martin | Nobles | Mower | Jackson | Faribault | Blue Earth | Cottonwood | Freeborn |
| All Wheat | Polk | Marshall | Kittson | Wilkin | Clay | Norman | Roseau | Traverse | Grant | Becker |
| Oats | Stearns | Otter Tail | Roseau | Todd | Pennington | Marshall | Goodhue | Fillmore | Douglas | Morrison |
| Barley | Polk | Marshall | Roseau | Norman | Kittson | Pennington | Clay | Red Lake | Wilkin | Mahnomen |
| Sunflowers | Roseau | Marshall | Polk | Kittson | Pennington | Red Lake | Clay | Wilkin | Otter Tail | Norman |
| Sugarbeets | Polk | Clay | Wilkin | Renville | Norman | Marshall | Chippewa | Kittson | Kandiyohi | Grant |
| Rye | Morrison | Stearns | Marshall | Sherburne | Todd | Isanti | Anoka | | | |
| Flax | Roseau | Kittson | Marshall | | | | | | | |
| Dry Edible Beans | Polk | Otter Tail | Marshall | Hubbard | Grant | Wadena | Clay | Mahnomen | Norman | Becker |
| All Hay | Stearns | Otter Tail | Fillmore | Todd | Winona | Goodhue | Morrison | Wabasha | Roseau | Houston |
| Potatoes 1/ | Polk | Sherburne | Morrison | Clay | Marshall | Freeborn | Kittson | Red Lake | Lk of Wood | |
| Green Peas | Renville | Mower | Brown | Olmsted | Sibley | Steele | Dodge | Dakota | Goodhue | Redwood |
| Sweet Corn 2/ | Renville | Brown | Faribault | Olmsted | Freeborn | Mower | Sibley | Redwood | Waseca | Goodhue |
| Livestock, Dairy & Poultry: | | | | | | | | | | |
| Cattle & Calves, Jan 1, 1998 | Stearns | Otter Tail | Fillmore | Morrison | Winona | Todd | Goodhue | Houston | Wabasha | Olmsted |
| Beef Cows, Jan 1, 1998 | Fillmore | Otter Tail | Houston | Cass | Olmsted | Beltrami | Morrison | Polk | Roseau | Clearwater |
| Milk Cows, Jan 1, 1998 | Stearns | Otter Tail | Morrison | Winona | Goodhue | Todd | Wabasha | Fillmore | Wright | Carver |
| Milk Prod., 1997 | Stearns | Otter Tail | Winona | Morrison | Goodhue | Todd | Wabasha | Fillmore | Wright | Carver |
| Breeding Sheep & Lambs, Jan 1, 1998 3/ | Otter Tail | Murray | Pipestone | Lincoln | Nobles | Lyon | Jackson | Goodhue | Fillmore | Todd |
| Hogs, Dec 1, 1997 | Martin | Blue Earth | Brown | Nicollet | Renville | Nobles | Rice | Faribault | Freeborn | Jackson |
| Pig Crop, 1997 | Martin | Blue Earth | Renville | Nobles | Brown | Nicollet | Lyon | Freeborn | Jackson | Rice |
| Cattle & Calves on Feed, Jan 1, 1998 4/ | Nobles | Cottonwood | Murray | Rock | Redwood | Stevens | Lyon | Stearns | Renville | Blue Earth |

1/ Includes published counties only.

2/ Mower and Sibley tied for 6th.

3/ Murray and Pipestone tied for 2nd; Fillmore and Todd tied for 9th.

4/ Cottonwood and Murray tied for 2nd.

FARM NUMBERS

The number of farms in Minnesota in 1997 at 87,000 remained unchanged from 1996 and 1995.

The increase in farm numbers from 1994 to 1995 was mainly due to a change in the farm definition which includes places with 5 or more horses, except horses in boarding stables and racetracks.

The number of farms in the United States in 1997 was estimated at 2,057,910, down 0.3% from 1996.

Total land in U.S. farms for 1997 was 968 million acres, down from the 970 million in 1996. Land in farms has declined every year since reaching its peak at 1,206 million acres in 1954.

NUMBER OF FARMS, AVERAGE SIZE, AND LAND IN FARMS: MINNESOTA, 1986-97 1/ 2/

| Year | Number of Farms | Land in Farms | Avg. Size of Farms |
|------|-----------------|---------------|--------------------|
| | Number | 1,000 Acres | Acres |
| 1986 | 93,000 | 30,000 | 323 |
| 1987 | 92,000 | 30,000 | 326 |
| 1988 | 92,000 | 30,000 | 326 |
| 1989 | 90,000 | 30,000 | 333 |
| 1990 | 89,000 | 30,000 | 337 |
| 1991 | 88,000 | 30,000 | 341 |
| 1992 | 88,000 | 29,800 | 339 |
| 1993 | 87,000 | 29,700 | 341 |
| 1994 | 85,000 | 29,700 | 349 |
| 1995 | 87,000 | 29,800 | 343 |
| 1996 | 87,000 | 29,800 | 343 |
| 1997 | 87,000 | 29,800 | 343 |

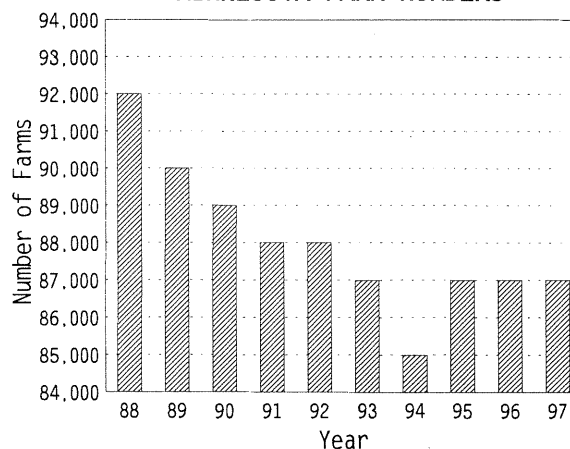
1/ A farm is any establishment from which \$1,000 or more of agricultural products were sold or would normally be sold during the year.

2/ 1996 and earlier farm numbers and land in farms are for a June 1 reference date. Starting with 1997, numbers are for the entire year.

NUMBER OF FARMS AND LAND IN FARMS: BY SALES CLASS, MINNESOTA, 1992-97

| Year | Sales Class | | | | | |
|------|-----------------|-----------------|------------------|-----------------------------|-----------------|------------------|
| | \$1,000-9,999 | \$10,000-99,999 | \$100,000 & over | \$1,000-9,999 | \$10,000-99,999 | \$100,000 & over |
| | Number of Farms | | | Land in Farms (1,000 Acres) | | |
| 1992 | 31,000 | 33,500 | 23,500 | 2,800 | 9,700 | 17,300 |
| 1993 | 31,000 | 34,000 | 22,000 | 3,200 | 9,700 | 16,800 |
| 1994 | 30,000 | 34,000 | 21,000 | 3,400 | 9,700 | 16,600 |
| 1995 | 35,000 | 34,000 | 18,000 | 3,600 | 9,600 | 16,600 |
| 1996 | 31,000 | 33,000 | 23,000 | 3,400 | 9,300 | 17,100 |
| 1997 | 33,000 | 31,000 | 23,000 | 3,200 | 8,900 | 17,700 |

MINNESOTA FARM NUMBERS



UNITED STATES AVERAGE ANNUAL PER CAPITA CONSUMPTION FOR SELECTED ITEMS, SELECTED YEARS

| Item | 1975-79 | 1980-84 | 1985-89 | 1990-94 | 1992 | 1993 | 1994 | 1995 |
|---|---------|---------|---------|---------|-------|-------|-------|-------|
| | Pounds | | | | | | | |
| Red Meats 1/ 2/ 3/ | 128.6 | 123.8 | 120.0 | 113.0 | 114.1 | 112.1 | 114.7 | 114.7 |
| Beef | 82.8 | 73.1 | 70.5 | 63.0 | 62.8 | 61.5 | 63.6 | 64.0 |
| Veal | 2.3 | 1.4 | 1.3 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| Pork | 42.4 | 48.3 | 47.1 | 48.3 | 49.5 | 48.9 | 49.5 | 49.0 |
| Lamb and Mutton | 1.1 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 0.9 | 0.9 |
| Poultry 1/ 3/ | 36.3 | 42.3 | 50.0 | 60.2 | 60.9 | 62.6 | 63.3 | 62.9 |
| Chicken | 29.4 | 33.9 | 38.7 | 46.2 | 46.7 | 48.5 | 49.3 | 48.8 |
| Turkey | 6.9 | 8.4 | 11.3 | 14.0 | 14.2 | 14.1 | 14.1 | 14.1 |
| Fish & Shellfish 1/ 4/ | 12.8 | 13.0 | 15.4 | 14.9 | 14.7 | 14.9 | 15.1 | 14.9 |
| Eggs 3/ | 34.9 | 33.9 | 32.1 | 30.3 | 30.3 | 30.3 | 30.6 | 30.2 |
| All Dairy Products, Including Butter 5/ | 542.3 | 558.6 | 586.5 | 572.0 | 565.8 | 574.1 | 585.8 | 584.1 |
| Fluid Milk and Cream 6/ | 256.6 | 239.3 | 238.0 | 229.8 | 230.9 | 226.8 | 226.3 | 223.2 |
| Whole | 161.6 | 131.7 | 107.6 | 81.4 | 81.4 | 77.8 | 76.0 | 72.6 |
| 2 Percent Fat | 46.8 | 59.0 | 73.6 | 77.3 | 78.5 | 76.7 | 74.9 | 70.4 |
| 1 Percent Fat | 13.8 | 15.1 | 15.8 | 20.7 | 21.0 | 20.5 | 21.0 | 22.0 |
| Skim | 11.6 | 11.1 | 15.3 | 25.4 | 25.0 | 26.7 | 28.7 | 31.9 |
| Yogurt | 2.3 | 2.9 | 4.2 | 4.3 | 4.3 | 4.4 | 4.7 | 5.1 |
| Cheese 1/ 7/ | 16.0 | 19.5 | 23.5 | 25.7 | 26.0 | 26.3 | 26.8 | 27.3 |
| American 8/ | 9.1 | 10.9 | 11.8 | 11.3 | 11.3 | 11.4 | 11.5 | 11.8 |
| Italian | 3.8 | 5.0 | 7.5 | 9.7 | 10.0 | 9.8 | 10.3 | 10.3 |
| Other 9/ | 3.1 | 3.6 | 4.1 | 4.8 | 4.7 | 5.0 | 5.0 | 5.3 |
| Frozen Dairy Products 6/ 10/ | 27.5 | 26.7 | 28.1 | 29.1 | 28.9 | 29.3 | 29.9 | 28.2 |
| Ice Cream | 17.8 | 17.7 | 17.7 | 16.1 | 16.3 | 16.1 | 16.1 | 15.7 |
| Fats and Oils (Product Weight) 6/ | 57.5 | 61.4 | 66.1 | 68.3 | 68.8 | 71.5 | 68.9 | 66.8 |
| Butter | 4.4 | 4.6 | 4.6 | 4.5 | 4.4 | 4.7 | 4.8 | 4.5 |
| Margarine | 11.4 | 10.8 | 10.6 | 10.7 | 11.0 | 11.1 | 9.9 | 9.2 |
| Fresh Fruit 1/ | 96.9 | 102.9 | 113.2 | 115.3 | 117.8 | 119.3 | 120.6 | 120.1 |
| Citrus | 25.7 | 23.9 | 22.9 | 22.4 | 23.5 | 25.1 | 24.1 | 23.6 |
| Noncitrus | 71.1 | 79.0 | 90.2 | 92.9 | 94.3 | 94.1 | 96.5 | 96.5 |
| Vegetables, Fresh | 145.8 | 148.6 | 162.9 | 169.8 | NA | NA | 175.9 | 173.5 |
| Vegetables, Processing 1/ 11/ | 194.4 | 190.4 | 201.6 | 225.4 | NA | NA | 227.7 | 231.5 |
| Fresh Potatoes | 49.5 | 48.4 | 48.6 | 48.0 | NA | NA | 49.1 | 49.2 |
| Frozen Potatoes | 40.4 | 39.7 | 45.9 | 53.3 | NA | NA | 59.3 | 59.3 |
| Dry Edible Beans, Peas, & Lentils | 6.7 | 6.2 | 6.9 | 7.8 | 7.8 | 7.4 | 7.9 | 8.6 |
| Flour and Cereal Products 6/ | 141.2 | 147.0 | 168.0 | 187.4 | 190.7 | 195.8 | 194.1 | 192.4 |
| Wheat Flour | 116.1 | 117.3 | 128.3 | 139.8 | 138.8 | 143.3 | 144.5 | 141.7 |
| Corn Products 12/ | 11.8 | 14.1 | 20.4 | 22.2 | 23.2 | 23.5 | 22.5 | 22.7 |
| Oat Products 13/ | 4.1 | 3.8 | 5.0 | 6.5 | NA | NA | 6.5 | 6.5 |
| Barley Products 14/ | 1.0 | 1.0 | 0.9 | 0.7 | NA | NA | 0.7 | 0.7 |
| Refined Sugar | 91.5 | 74.7 | 62.0 | 64.4 | 64.6 | 64.3 | 65.0 | 65.5 |

1/ Total may not add due to rounding.

2/ Excludes game meat and edible offals.

3/ Excludes shipments to U.S. territories.

4/ Excludes game fish.

5/ Milk equivalent, milkfat basis.

6/ Will not add to total due to some categories not being listed.

7/ Natural equivalent of cheese and cheese products. Excludes full-skim American, cottage, pot, and baker's cheese.

8/ Cheddar, Colby, washed curd, stirred curd, Monterey, and Jack.

9/ Swiss, brick Muenster, blue, and other miscellaneous cheeses.

10/ Includes mellorine and nonstandardized frozen dairy products.

11/ Includes dehydrated onions.

12/ Corn flour, meal, hominy, grits, and cornstarch; excludes corn sweeteners.

13/ Oatmeal, oat cereal, oat flour, and oat bran.

14/ Barley flour, pear barley, malt and malt extract.

SOURCE: ECONOMIC RESEARCH SERVICE, UNITED STATES DEPARTMENT OF AGRICULTURE, WASHINGTON, D.C.

EXPORTS

Minnesota ranked 7th in farm exports for fiscal year 1997. The value of the state's exports came to \$2.61 billion versus \$3.06 billion in 1996. This is a decrease of \$453.9 million.

The table below shows the value of farm exports by commodity group. These figures are not actual exports but are derived from Minnesota's contribution to U.S. production and/or sales. They reflect Minnesota's important stake in the national export market.

AGRICULTURAL EXPORTS: MINNESOTA, 1997

| Commodity | Value |
|---|------------------------|
| | <u>Million Dollars</u> |
| Feed Grains & Products | 783.5 |
| Soybeans & Products | 870.8 |
| Wheat & Products | 101.0 |
| Live Animals & Meat (Excludes Poultry) | 214.7 |
| Vegetables & Preparations | 169.1 |
| Feeds & Fodders | 118.6 |
| Dairy Products | 74.6 |
| Hides & Skins | 65.5 |
| Poultry & Products | 68.7 |
| Sunflower Seed & Oil | 13.6 |
| Fats, Oils, Greases | 25.2 |
| Seeds | 44.6 |
| Other 1/ | 58.9 |
| TOTAL | 2,608.8 |

1/ Includes confectionary, nursery and greenhouse, essential oils, beverages (excluding juice), and other miscellaneous animal and vegetable products.

Note: Totals may not add due to rounding.

AGRICULTURAL EXPORTS: STATE RANKINGS, 1997

| Rank | State | Value |
|----------------|-----------|------------------------|
| | | <u>Million Dollars</u> |
| First | CA | 7,656.9 |
| Second | IA | 4,180.9 |
| Third | IL | 3,837.1 |
| Fourth | NE | 3,324.9 |
| Fifth | TX | 3,038.2 |
| Sixth | KS | 2,878.2 |
| Seventh | MN | 2,608.8 |
| Eighth | IN | 1,882.0 |
| Ninth | WA | 1,844.4 |
| Tenth | AR | 1,803.8 |

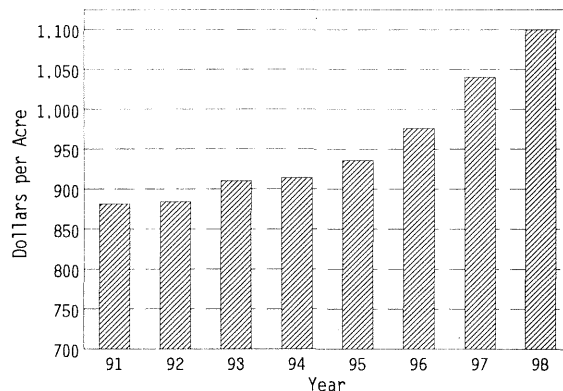
SOURCE: ECONOMIC RESEARCH SERVICE, UNITED STATES DEPARTMENT OF AGRICULTURE, WASHINGTON, D.C.

AVERAGE PER ACRE VALUE OF FARMLAND AND BUILDINGS, MINNESOTA AND SELECTED STATES, JANUARY 1, 1995-1998 1/

| State | 1995 | 1996 | 1997 | 1998 | Change 1997-98 |
|-----------|-------------------------|-------|-------|-------|-------------------|
| | <u>Dollars Per Acre</u> | | | | <u>Percent</u> |
| MN | 936 | 976 | 1,040 | 1,100 | 5.8 |
| IA | 1,349 | 1,442 | 1,650 | 1,800 | 9.1 |
| ND | 373 | 383 | 410 | 415 | 1.2 |
| SD | 302 | 310 | 325 | 350 | 7.7 |
| WI | 1,065 | 1,175 | 1,250 | 1,350 | 8.0 |
| 48 States | 832 | 890 | 945 | 1,000 | 5.8 |

1/ Value of farmland and buildings in nominal dollars (not adjusted for inflation.)

VALUE OF LAND & BUILDINGS PER ACRE, MINNESOTA



LAND VALUES

Minnesota average farmland sales prices keep climbing. The increases are smaller than last year, but still are noticeable. Each year, the Minnesota Department of Revenue compiles every farmland sale in the state into a single data set that includes sale price, parcel size, number of tillable acres, terms of sale, and other pertinent items.

Most of the 1997 sales were for parcels 160 acres or less in size. This reflects a modern Midwest farmland sales market where hardly anyone buys whole farms anymore. Most transactions are for pieces of farms, and purchasers are not new farmers, but neighbors rounding out existing operations.

Statewide sales in 1997 totaled 1,634, an increase of 3.5 percent from the 1996 sales. The average acreage per sale in 1997 was 126 acres, compared with 119 acres in 1996, and 125 acres in 1995. Average sale price per acre was \$939 in 1997, an increase of \$27 per acre from 1996, and up \$165 per acre from the 1995 average.

FARMLAND SALES: NUMBER, ACRES, AND PRICE, MINNESOTA, 1995-97

| Sales Year | Number of Sales | Acres Sold | Price Per-Acre | |
|------------|-----------------|--------------|----------------|--------|
| | | | Mean | Median |
| | <u>Number</u> | <u>Acres</u> | <u>Dollars</u> | |
| 1995 | 1,453 | 181,620 | 774 | 759 |
| 1996 | 1,579 | 187,276 | 912 | 901 |
| 1997 | 1,634 | 205,886 | 939 | 916 |

The Central District of the state recorded the most sales in 1997 with 359, and the East Central District had the fewest sales with 148. Average acreage per sale was the largest in the Northwest District at 174 acres, and the smallest average was 97 acres in the South Central District. Average sale price ranged from \$1,677 per acre in the South Central District to \$456 per acre in the Northwest.

FARMLAND SALES: NUMBER, ACRES, AND PRICE, BY DISTRICT, MINNESOTA, 1997

| Reporting District | Number of Sales | Acres Sold | Price Per Acre | | | |
|--------------------|-----------------|--------------|----------------------------|-------------------|-------|-------|
| | | | Mean (Average Weighted) | Price Percentiles | | |
| | | | | 25 | 50 | 75 |
| | <u>Number</u> | <u>Acres</u> | | <u>Dollars</u> | | |
| Northwest | 200 | 34,835 | 456 | 278 | 423 | 710 |
| West Central | 276 | 37,339 | 782 | 500 | 741 | 1,000 |
| Central | 359 | 39,637 | 966 | 500 | 799 | 1,400 |
| East Central | 148 | 17,379 | 719 | 369 | 605 | 1,056 |
| Southwest | 211 | 27,418 | 1,184 | 900 | 1,300 | 1,587 |
| South Central | 225 | 21,779 | 1,677 | 1,326 | 1,700 | 1,972 |
| Southeast | 165 | 20,538 | 1,259 | 907 | 1,192 | 1,544 |

SOURCE: "MINNESOTA AGRICULTURAL ECONOMIST", No. 690, Fall 1997.
 STEVEN J. TAFF, DEPARTMENT OF APPLIED ECONOMICS, UNIVERSITY OF MINNESOTA.
 INTERNET WEB SITE (www.tc.umn.edu/~sjtaff/)

CORN: PRODUCTION CASH COSTS AND RETURNS, NORTH CENTRAL REGION, 1989-96 1/

| Item | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
|--|--------------------------|--------|--------|--------|--------|--------|--------|--------|
| | Dollars per Planted Acre | | | | | | | |
| Gross value of production: (excluding direct Government payments) Corn - gross value of production | 260.44 | 265.05 | 247.82 | 272.90 | 219.38 | 293.83 | 318.44 | 370.55 |
| Cash expenses: | | | | | | | | |
| Seed | 21.22 | 20.70 | 21.42 | 21.96 | 22.38 | 22.19 | 23.80 | 23.76 |
| Fertilizer, lime, and gypsum | 51.76 | 46.60 | 45.26 | 43.55 | 43.47 | 46.28 | 54.82 | 55.97 |
| Chemicals | 23.66 | 24.88 | 22.94 | 23.91 | 24.63 | 25.52 | 26.59 | 27.18 |
| Custom operations 2/ | 5.76 | 6.05 | 8.80 | 9.18 | 8.27 | 9.55 | 8.97 | 9.10 |
| Fuel, lube, and electricity | 17.46 | 21.39 | 12.58 | 12.65 | 11.05 | 12.48 | 11.26 | 13.98 |
| Repairs | 7.16 | 7.61 | 12.15 | 13.87 | 12.74 | 15.31 | 14.91 | 15.98 |
| Hired labor | 7.21 | 7.64 | 5.99 | 6.29 | 6.05 | 6.07 | 6.47 | 6.77 |
| Other variable cash expenses 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total, variable cash expenses | 134.23 | 134.87 | 129.14 | 131.41 | 128.59 | 137.40 | 146.82 | 152.74 |
| General farm overhead | 11.56 | 13.37 | 9.65 | 9.84 | 8.32 | 12.48 | 11.55 | 13.89 |
| Taxes and insurance | 16.84 | 16.86 | 18.21 | 18.47 | 18.22 | 20.41 | 19.63 | 21.95 |
| Interest | 17.44 | 19.20 | 15.49 | 13.65 | 10.90 | 14.60 | 15.26 | 19.27 |
| Total, fixed cash expenses | 45.84 | 49.43 | 43.35 | 41.96 | 37.44 | 47.49 | 46.44 | 55.11 |
| Total, cash expenses | 180.07 | 184.30 | 172.49 | 173.37 | 166.03 | 184.89 | 193.26 | 207.85 |
| Gross value of production less cash expenses | 80.37 | 80.75 | 75.33 | 99.53 | 53.35 | 108.94 | 125.18 | 162.70 |
| Harvest-period price (dollars/bu.) | 2.18 | 2.16 | 2.29 | 2.01 | 2.26 | 2.02 | 2.74 | 2.92 |
| Yield (bu./planted acre) | 119.47 | 122.71 | 108.22 | 135.77 | 97.07 | 145.46 | 116.22 | 126.90 |

1/ The North Central Region includes Minnesota, Iowa, Missouri, Wisconsin, Illinois, Michigan, Indiana, and Ohio.

2/ Cost of custom operations, technical services, and commercial drying.

3/ Cost of purchased irrigation water.

Note: Survey base changed in 1991.

SOURCE: ECONOMIC RESEARCH SERVICE, UNITED STATES DEPARTMENT OF AGRICULTURE, WASHINGTON, D.C.

INTERNET WEB SITE (www.econ.ag.gov/briefing/fbe/car/corn3.htm)

SOYBEANS: PRODUCTION CASH COSTS AND RETURNS, NORTH CENTRAL REGION, 1989-96 1/

| Item | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
|--|--------------------------|--------|--------|--------|--------|--------|--------|--------|
| | Dollars per Planted Acre | | | | | | | |
| Gross value of production: Soybeans - gross value of production | 199.55 | 220.65 | 199.10 | 206.19 | 203.47 | 234.75 | 236.69 | 265.55 |
| Cash expenses: | | | | | | | | |
| Seed | 16.64 | 13.52 | 13.89 | 13.30 | 13.40 | 14.65 | 14.37 | 16.11 |
| Fertilizer, lime, and gypsum | 9.02 | 8.39 | 8.64 | 8.43 | 7.96 | 8.52 | 9.19 | 9.72 |
| Chemicals | 20.52 | 21.51 | 23.57 | 24.59 | 25.18 | 25.63 | 25.99 | 26.16 |
| Custom operations 2/ | 3.93 | 3.97 | 4.04 | 4.03 | 3.88 | 4.12 | 4.04 | 4.04 |
| Fuel, lube, and electricity | 7.15 | 7.82 | 8.20 | 7.27 | 7.26 | 6.86 | 6.68 | 8.22 |
| Repairs | 8.00 | 8.00 | 8.19 | 8.73 | 8.88 | 9.72 | 10.01 | 9.24 |
| Hired labor | 3.82 | 4.06 | 4.48 | 4.67 | 4.46 | 4.51 | 4.63 | 5.02 |
| Other variable cash expenses 3/ | 0.02 | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 |
| Total, variable cash expenses | 69.10 | 67.30 | 71.03 | 71.04 | 71.04 | 74.03 | 74.94 | 78.54 |
| General farm overhead | 9.92 | 9.22 | 10.23 | 9.72 | 10.81 | 12.17 | 12.69 | 12.59 |
| Taxes and insurance | 19.08 | 19.02 | 20.32 | 20.26 | 20.51 | 21.78 | 21.43 | 22.66 |
| Interest | 14.24 | 15.60 | 17.84 | 14.65 | 14.29 | 15.06 | 17.01 | 17.79 |
| Total, fixed cash expenses | 43.24 | 43.84 | 48.39 | 44.63 | 45.61 | 49.01 | 51.13 | 53.04 |
| Total, cash expenses | 112.34 | 111.14 | 119.42 | 115.67 | 116.65 | 123.04 | 126.07 | 131.58 |
| Gross value of production less cash expenses | 87.21 | 109.51 | 79.68 | 90.52 | 86.82 | 111.71 | 110.62 | 133.97 |
| Harvest-period price (dollars/bu.) | 5.52 | 5.87 | 5.50 | 5.24 | 6.09 | 5.34 | 6.25 | 6.91 |
| Yield (bu./planted acre) | 36.15 | 37.59 | 36.20 | 39.35 | 33.41 | 43.96 | 37.87 | 38.43 |

1/ The North Central Region includes Minnesota, Iowa, Missouri, Wisconsin, Illinois, Michigan, Indiana, and Ohio.

2/ Cost of custom operations and technical services.

3/ Cost of purchased irrigation water.

Note: Survey base changed in 1989.

SOURCE: ECONOMIC RESEARCH SERVICE, UNITED STATES DEPARTMENT OF AGRICULTURE, WASHINGTON, D.C.

INTERNET WEB SITE (www.econ.ag.gov/briefing/fbe/car/soybean3.htm)

WHEAT: PRODUCTION CASH COSTS AND RETURNS, NORTHERN PLAINS REGION, 1989-96 1/

| Item | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
|--|-------|-------|-------|--------|--------|-------|--------|--------|
| Dollars per Planted Acre | | | | | | | | |
| Gross value of production: (excluding direct Government payments) | | | | | | | | |
| Wheat | 93.95 | 83.46 | 74.67 | 117.81 | 102.82 | 92.18 | 120.59 | 143.56 |
| Wheat straw | 0.83 | 0.84 | 0.53 | 0.61 | 0.64 | 0.60 | 0.51 | 0.60 |
| Total, gross value of production | 94.78 | 84.30 | 75.20 | 118.42 | 103.46 | 92.78 | 121.10 | 144.16 |
| Cash expenses: | | | | | | | | |
| Seed | 7.47 | 7.24 | 4.91 | 6.40 | 6.45 | 7.83 | 7.44 | 8.93 |
| Fertilizer, lime, and gypsum | 10.84 | 9.16 | 9.95 | 9.74 | 9.38 | 12.25 | 15.34 | 15.63 |
| Chemicals | 6.40 | 6.88 | 7.31 | 7.76 | 8.08 | 7.61 | 7.98 | 8.27 |
| Custom operations 2/ | 2.54 | 2.78 | 2.63 | 2.68 | 2.68 | 2.54 | 2.59 | 2.72 |
| Fuel, lube, and electricity | 7.00 | 8.15 | 7.90 | 7.66 | 7.81 | 5.82 | 5.99 | 7.12 |
| Repairs | 6.35 | 6.83 | 6.91 | 7.08 | 7.41 | 12.07 | 12.51 | 14.09 |
| Hired labor | 3.58 | 3.51 | 3.77 | 3.96 | 3.85 | 2.16 | 2.30 | 2.39 |
| Other variable cash expenses 3/ | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.03 | 0.03 | 0.03 |
| Total, variable cash expenses | 44.19 | 44.56 | 43.39 | 45.29 | 45.67 | 50.31 | 54.18 | 59.18 |
| General farm overhead | 4.97 | 6.57 | 5.10 | 4.93 | 6.01 | 4.18 | 5.45 | 4.54 |
| Taxes and insurance | 8.65 | 9.98 | 8.15 | 7.73 | 10.22 | 7.83 | 8.83 | 8.67 |
| Interest | 9.97 | 10.91 | 10.42 | 8.84 | 8.98 | 7.61 | 10.68 | 9.39 |
| Total, fixed cash expenses | 23.59 | 27.46 | 23.67 | 21.50 | 25.21 | 19.62 | 24.96 | 22.60 |
| Total, cash expenses | 67.78 | 72.02 | 67.06 | 66.79 | 70.88 | 69.93 | 79.14 | 81.78 |
| Gross value of production less cash expenses | 27.00 | 12.28 | 8.14 | 51.63 | 32.58 | 22.85 | 41.96 | 62.38 |
| Harvest-period price (dollars/bu.) | 3.67 | 2.55 | 2.47 | 3.30 | 3.39 | 3.31 | 4.31 | 4.86 |
| Yield (bu./planted acre) | 25.60 | 32.73 | 30.23 | 35.70 | 30.33 | 27.85 | 27.98 | 29.54 |

1/ The Northern Plains Region includes Minnesota, North Dakota, South Dakota, Montana, and Wyoming.

2/ Cost of custom operations and technical services.

3/ Cost of purchased irrigation water and baling.

Note: Survey base changed in 1989 and 1994.

SOURCE: ECONOMIC RESEARCH SERVICE, UNITED STATES DEPARTMENT OF AGRICULTURE, WASHINGTON, D.C.

INTERNET WEB SITE (www.econ.ag.gov/briefing/fbe/car/wheat3.htm)

BARLEY: PRODUCTION CASH COSTS AND RETURNS, NORTHERN PLAINS REGION, 1989-96 1/

| Item | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
|--|-------|-------|-------|--------|-------|-------|--------|--------|
| Dollars per Planted Acre | | | | | | | | |
| Gross value of production: (excluding direct Government payments) | | | | | | | | |
| Barley | 96.22 | 90.05 | 88.66 | 111.15 | 77.38 | 89.47 | 109.22 | 139.00 |
| Barley straw 2/ | 2.00 | 1.55 | 1.20 | 2.00 | 2.18 | 1.94 | 1.87 | 1.89 |
| Total, gross value of production | 98.22 | 91.61 | 89.86 | 113.15 | 79.56 | 91.41 | 111.09 | 140.89 |
| Cash expenses: | | | | | | | | |
| Seed | 7.47 | 6.37 | 5.24 | 5.43 | 5.16 | 5.22 | 5.72 | 7.63 |
| Fertilizer, lime, and gypsum | 14.62 | 12.69 | 13.73 | 12.61 | 12.27 | 13.47 | 16.77 | 17.11 |
| Chemicals | 5.70 | 6.04 | 6.56 | 6.22 | 6.75 | 7.29 | 7.69 | 7.86 |
| Custom operations 3/ | 1.95 | 2.18 | 2.28 | 2.96 | 2.81 | 3.09 | 3.46 | 3.41 |
| Fuel, lube, and electricity | 5.25 | 5.97 | 6.39 | 7.92 | 7.75 | 7.22 | 7.42 | 8.85 |
| Repairs | 6.83 | 6.76 | 7.07 | 11.53 | 11.50 | 12.69 | 13.04 | 15.21 |
| Hired labor | 4.77 | 5.02 | 5.34 | 3.94 | 3.67 | 3.55 | 3.80 | 3.98 |
| Other variable cash expenses 4/ | 1.11 | 1.13 | 1.14 | 0.88 | 0.77 | 0.81 | 0.86 | 0.98 |
| Total, variable cash expenses | 47.70 | 46.16 | 47.75 | 51.49 | 50.68 | 53.34 | 58.76 | 65.03 |
| General farm overhead | 5.26 | 6.10 | 5.57 | 5.05 | 5.04 | 6.11 | 7.27 | 7.28 |
| Taxes and insurance | 7.13 | 6.71 | 6.85 | 9.45 | 9.37 | 10.90 | 11.87 | 12.86 |
| Interest | 8.82 | 9.74 | 9.34 | 10.06 | 8.66 | 9.96 | 13.01 | 13.70 |
| Total, fixed cash expenses | 21.21 | 22.55 | 21.76 | 24.56 | 23.07 | 26.97 | 32.15 | 33.84 |
| Total, cash expenses | 68.91 | 68.71 | 69.51 | 76.05 | 73.75 | 80.31 | 90.91 | 98.87 |
| Gross value of production less cash expenses | 29.31 | 22.90 | 20.35 | 37.10 | 5.81 | 11.10 | 20.18 | 42.02 |
| Harvest-period price (dollars/bu.) | 2.54 | 1.93 | 1.89 | 1.97 | 1.79 | 1.93 | 2.47 | 2.82 |
| Yield (bu./planted acre) | 37.88 | 46.66 | 46.91 | 56.42 | 43.23 | 46.36 | 44.22 | 49.29 |

1/ The Northern Plains Region includes Minnesota, North Dakota, South Dakota, Montana, and Wyoming.

2/ Value of barley straw and grazing after 1991.

3/ Cost of custom operations and technical services.

4/ Cost of purchased irrigation water and baling.

Note: Survey base changed in 1992.

SOURCE: ECONOMIC RESEARCH SERVICE, UNITED STATES DEPARTMENT OF AGRICULTURE, WASHINGTON, D.C.

INTERNET WEB SITE (www.econ.ag.gov/briefing/fbe/car/barley3.htm)

OATS: PRODUCTION CASH COSTS AND RETURNS, NORTH CENTRAL REGION, 1989-96 1/

| Item | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
|--|--------------------------|-------|-------|--------|-------|--------|--------|--------|
| | Dollars per Planted Acre | | | | | | | |
| Gross value of production: (excluding direct Government payments) | | | | | | | | |
| Oats | 101.03 | 73.16 | 58.94 | 84.53 | 66.72 | 68.92 | 71.40 | 119.06 |
| Oats straw | 20.52 | 17.46 | 21.72 | 25.28 | 28.30 | 44.21 | 37.98 | 44.21 |
| Total, gross value of production | 121.55 | 90.62 | 80.66 | 109.81 | 95.02 | 113.13 | 109.38 | 163.27 |
| Cash expenses: | | | | | | | | |
| Seed | 10.72 | 9.30 | 8.28 | 9.61 | 9.48 | 9.29 | 8.91 | 9.67 |
| Fertilizer, lime, and gypsum | 15.43 | 14.17 | 13.82 | 13.57 | 12.46 | 16.71 | 20.61 | 20.12 |
| Chemicals | 0.94 | 0.97 | 0.84 | 0.88 | 0.86 | 1.15 | 1.19 | 1.26 |
| Custom operations 2/ | 6.17 | 9.21 | 7.41 | 7.43 | 5.96 | 6.08 | 5.69 | 5.75 |
| Fuel, lube, and electricity | 7.29 | 8.02 | 8.62 | 7.22 | 6.69 | 6.64 | 4.08 | 4.19 |
| Repairs | 6.30 | 6.22 | 6.44 | 6.50 | 6.01 | 9.61 | 8.03 | 6.50 |
| Hired labor | 5.02 | 5.83 | 6.09 | 6.41 | 6.07 | 1.64 | 1.58 | 1.73 |
| Other variable cash expenses 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.63 | 1.40 | 1.63 |
| Total, variable cash expenses | 51.87 | 53.72 | 51.50 | 51.62 | 47.53 | 52.75 | 51.49 | 50.85 |
| General farm overhead | 3.15 | 3.71 | 3.24 | 4.41 | 4.74 | 4.58 | 4.83 | 4.52 |
| Taxes and insurance | 16.58 | 16.97 | 15.14 | 21.71 | 22.67 | 17.33 | 19.00 | 20.15 |
| Interest | 3.78 | 4.17 | 3.83 | 4.43 | 4.18 | 5.44 | 6.22 | 6.14 |
| Total, fixed cash expenses | 23.51 | 24.85 | 22.21 | 30.55 | 31.59 | 27.35 | 30.05 | 30.81 |
| Total, cash expenses | 75.38 | 78.57 | 73.71 | 82.17 | 79.12 | 80.10 | 81.54 | 81.66 |
| Gross value of production less cash expenses | 46.17 | 12.05 | 6.95 | 27.64 | 15.90 | 33.03 | 27.84 | 81.61 |
| Harvest-period price (dollars/bu.) | 1.55 | 1.10 | 1.21 | 1.28 | 1.41 | 1.23 | 1.28 | 2.02 |
| Yield (bu./planted acre) | 65.18 | 66.51 | 48.71 | 66.04 | 47.32 | 56.03 | 55.78 | 58.94 |

1/ The North Central Region includes Minnesota, Iowa, Wisconsin, Illinois, Michigan, and Ohio.

2/ Cost of custom operations and technical services.

3/ Cost of purchased irrigation water.

SOURCE: ECONOMIC RESEARCH SERVICE, UNITED STATES DEPARTMENT OF AGRICULTURE, WASHINGTON, D.C.

INTERNET WEB SITE (www.econ.ag.gov/briefing/fbe/car/oats3.htm)

SUGARBEETS: PRODUCTION CASH COSTS AND RETURNS, RED RIVER VALLEY, 1989-96 1/

| Item | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
|--|--------------------------|--------|--------|--------|--------|--------|--------|--------|
| | Dollars per Planted Acre | | | | | | | |
| Gross value of production: | | | | | | | | |
| Beets - gross value of production | 637.42 | 702.72 | 694.80 | 849.13 | 591.61 | 852.36 | 685.85 | 698.52 |
| Cash expenses: | | | | | | | | |
| Seed | 23.01 | 24.36 | 24.85 | 36.63 | 37.53 | 39.89 | 41.15 | 42.91 |
| Fertilizer | 33.86 | 32.38 | 33.28 | 30.29 | 28.68 | 32.78 | 39.90 | 41.68 |
| Chemicals | 58.93 | 62.06 | 66.52 | 66.14 | 66.30 | 66.79 | 68.13 | 71.12 |
| Custom operations | 20.09 | 21.11 | 21.87 | 21.13 | 19.88 | 24.78 | 24.12 | 24.34 |
| Fuel and lubrication | 22.67 | 25.55 | 25.59 | 18.65 | 18.20 | 18.46 | 17.85 | 21.87 |
| Repairs | 30.20 | 31.18 | 32.02 | 29.23 | 24.48 | 29.87 | 28.93 | 29.37 |
| Hired labor | 70.29 | 74.88 | 78.64 | 70.05 | 68.50 | 66.12 | 69.33 | 77.02 |
| Purchased irrigation water | 0.00 | 0.00 | 0.00 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| Freight and dirt hauling charges | 8.98 | 8.24 | 9.98 | 9.87 | 8.92 | 9.93 | 9.55 | 11.93 |
| Miscellaneous 2/ | 3.79 | 3.95 | 4.06 | 13.52 | 14.00 | 13.85 | 14.47 | 16.54 |
| Hauling allowance (-) | 13.31 | 12.76 | 14.06 | -9.43 | -8.33 | -9.50 | -9.14 | -11.39 |
| Total, variable cash expenses | 285.13 | 296.47 | 310.87 | 286.12 | 278.20 | 293.01 | 304.33 | 325.43 |
| General farm overhead | 34.99 | 38.58 | 38.14 | 25.33 | 30.64 | 30.16 | 30.43 | 20.78 |
| Taxes and insurance | 27.74 | 27.73 | 28.07 | 35.21 | 39.40 | 35.88 | 39.36 | 32.92 |
| Interest | 54.63 | 60.22 | 59.54 | 43.50 | 45.18 | 41.90 | 45.83 | 33.00 |
| Total, fixed cash expenses | 117.36 | 126.53 | 125.75 | 104.04 | 115.22 | 107.94 | 115.62 | 86.70 |
| Total, cash expenses | 402.49 | 423.00 | 436.62 | 390.16 | 393.42 | 400.95 | 419.95 | 412.13 |
| Gross value of production less cash expenses | 234.93 | 279.72 | 258.18 | 458.97 | 198.19 | 451.41 | 265.90 | 286.39 |
| Season-average price (dollars/ton) | 40.60 | 48.80 | 40.00 | 47.20 | 40.97 | 41.66 | 38.38 | 38.38 |
| Yield (net tons/planted acre) | 15.70 | 14.40 | 17.37 | 17.99 | 14.44 | 20.46 | 17.87 | 18.20 |

1/ The Red River Valley includes Minnesota and eastern North Dakota.

2/ Includes costs deducted by the processor from the net payment and noncash benefits.

Note: Survey base changed in 1992.

SOURCE: ECONOMIC RESEARCH SERVICE, UNITED STATES DEPARTMENT OF AGRICULTURE, WASHINGTON, D.C.

INTERNET WEB SITE (www.econ.ag.gov/briefing/fbe/car/beets3.htm)

HOG PRODUCTION: FARROW-TO-FINISH, FARROW-TO-FEEDER, FEEDER PIG-TO-FINISH, CASH COSTS AND RETURNS, NORTH REGION, 1996 1/

| Item | All Hog Producers | Farrow to Finish | Farrow to Feeder | Feeder Pig to Finish |
|--|-------------------|------------------|------------------|----------------------|
| <u>Dollars per Cwt Gain 2/</u> | | | | |
| Gross value of production: | | | | |
| Market hogs | 48.31 | 50.18 | 1.30 | 67.24 |
| Feeder pigs | 5.28 | 0.45 | 74.52 | 0.05 |
| Cull stock | 3.02 | 2.99 | 6.99 | 0.01 |
| Breeding stock | 2.92 | 0.21 | 0.18 | 0.02 |
| Inventory change | -1.38 | -1.42 | -0.89 | -1.52 |
| Other income 3/ | 1.43 | 1.48 | 1.50 | 1.32 |
| Total, gross value of production | 59.58 | 53.89 | 83.60 | 67.12 |
| Cash expenses: | | | | |
| Feed-- | | | | |
| Grain | 17.86 | 17.94 | 23.93 | 16.26 |
| Protein sources | 11.29 | 11.81 | 12.77 | 7.48 |
| Complete mixes | 5.67 | 4.23 | 12.77 | 7.65 |
| Other feed items 4/ | 0.80 | 0.73 | 1.04 | 0.55 |
| Total feed costs | 35.62 | 34.71 | 50.51 | 31.94 |
| Other-- | | | | |
| Feeder pigs | 3.58 | 0.18 | 0.06 | 21.22 |
| Veterinary and medicine | 1.57 | 1.32 | 5.60 | 0.95 |
| Bedding and litter | 0.10 | 0.07 | 0.27 | 0.16 |
| Marketing | 0.56 | 0.46 | 2.45 | 0.45 |
| Custom services and supplies | 0.47 | 0.40 | 1.03 | 0.36 |
| Fuel, lube, and electricity | 1.84 | 1.72 | 5.39 | 0.88 |
| Repairs | 1.45 | 1.42 | 3.21 | 1.04 |
| Hired labor | 2.78 | 2.45 | 6.44 | 1.14 |
| Total, variable cash expenses | 47.97 | 42.73 | 74.96 | 58.14 |
| General farm overhead | 1.72 | 1.50 | 2.94 | 1.52 |
| Taxes and insurance | 1.06 | 0.96 | 1.98 | 1.03 |
| Interest | 2.90 | 2.61 | 4.82 | 3.21 |
| Total, fixed cash expenses | 5.68 | 5.07 | 9.74 | 5.56 |
| Total, cash expenses | 53.65 | 47.80 | 84.70 | 63.90 |
| Gross value of production less cash expenses | 5.93 | 6.09 | -1.10 | 3.22 |

1/ The North Region includes Minnesota, Iowa, Missouri, Wisconsin, Illinois, Michigan, Indiana, Ohio, South Dakota, Nebraska, and Kansas.

2/ Cwt gain = (cwt sold - cwt purchased) + cwt inventory change.

3/ Value of manure production.

4/ Milk replacer, milk, milk by-products, antibiotics, and other medicated additives.

SOURCE: ECONOMIC RESEARCH SERVICE, UNITED STATES DEPARTMENT OF AGRICULTURE, WASHINGTON, D.C.
INTERNET WEB SITE (www.econ.ag.gov/briefing/fbe/car/hogs3.htm)



COW-CALF: PRODUCTION CASH COSTS AND RETURNS, NORTH CENTRAL REGION, 1989-96 1/

| Item | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
|--|--------|--------|--------|--------|--------|--------|--------|--------|
| Dollars per Bred Cow | | | | | | | | |
| Gross value of production: | | | | | | | | |
| Steer calves | 116.73 | 60.07 | 61.10 | 56.79 | 59.02 | 56.29 | 44.68 | 35.08 |
| Heifer calves | 63.66 | 34.69 | 35.10 | 32.82 | 34.41 | 32.41 | 26.21 | 20.34 |
| Yearling steers | 86.48 | 136.56 | 133.33 | 128.29 | 132.12 | 118.55 | 106.69 | 100.47 |
| Yearling heifers | 64.43 | 89.43 | 87.60 | 84.43 | 87.32 | 78.50 | 70.32 | 66.18 |
| Other cattle | 47.76 | 98.62 | 95.47 | 90.27 | 91.61 | 79.33 | 68.92 | 59.36 |
| Total, gross value of production | 379.06 | 419.37 | 412.60 | 392.60 | 404.48 | 365.08 | 316.82 | 281.43 |
| Cash expenses: | | | | | | | | |
| Feeder cattle | N/A | 2.79 | 2.68 | 2.60 | 2.65 | 2.28 | 2.20 | 2.15 |
| Feed-- | | | | | | | | |
| Grain | 10.09 | 10.96 | 11.57 | 9.83 | 11.84 | 9.99 | 14.44 | 11.91 |
| Silage | 10.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Protein supplements | 16.63 | 20.33 | 20.13 | 20.33 | 21.11 | 22.10 | 20.41 | 26.48 |
| By-products | 2.10 | 4.56 | 4.62 | 4.84 | 5.00 | 4.87 | 4.91 | 5.25 |
| Harvested forages | 53.27 | 63.63 | 66.60 | 68.07 | 70.51 | 70.22 | 72.35 | 76.90 |
| Pasture | 17.24 | 45.13 | 47.28 | 44.87 | 45.02 | 46.60 | 34.88 | 37.45 |
| Total feed costs | 109.67 | 144.61 | 150.20 | 147.94 | 153.58 | 153.78 | 146.99 | 157.99 |
| Other-- | | | | | | | | |
| Veterinary and medicine | 7.44 | 15.49 | 19.08 | 23.56 | 27.81 | 28.95 | 28.69 | 27.48 |
| Livestock hauling | 2.11 | 0.96 | 1.26 | 1.25 | 1.52 | 1.61 | 1.60 | 1.56 |
| Marketing | 3.21 | 5.94 | 5.87 | 3.17 | 3.66 | 3.88 | 3.84 | 3.72 |
| Custom feed mixing | 0.17 | 0.08 | 0.07 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| Fuel, lube, and electricity 2/ | 13.85 | 28.38 | 29.35 | 25.21 | 26.29 | 22.26 | 23.41 | 28.20 |
| Machinery and building repairs | 24.58 | 32.43 | 34.43 | 35.44 | 36.56 | 36.90 | 40.54 | 41.54 |
| Hired labor | 5.76 | 11.08 | 11.34 | 12.20 | 11.51 | 10.99 | 11.94 | 13.17 |
| Other variable cash expenses | N/A | 4.63 | 4.76 | 5.06 | 4.96 | 4.96 | 5.29 | 5.56 |
| Total, variable cash expenses | 166.79 | 246.39 | 259.04 | 256.47 | 268.58 | 265.65 | 264.54 | 281.41 |
| General farm overhead | 28.29 | 28.01 | 22.62 | 22.80 | 30.86 | 29.81 | 31.64 | 29.70 |
| Taxes and insurance | 54.78 | 11.50 | 10.16 | 10.38 | 13.40 | 13.83 | 14.03 | 15.29 |
| Interest | 51.55 | 38.06 | 31.76 | 27.95 | 33.30 | 31.18 | 35.20 | 34.86 |
| Total, fixed cash expenses | 134.62 | 77.57 | 64.54 | 61.13 | 77.56 | 74.82 | 80.87 | 79.85 |
| Total, cash expenses | 301.41 | 323.96 | 323.58 | 317.60 | 346.14 | 340.47 | 345.41 | 361.26 |
| Gross value of production less cash expenses | 77.65 | 95.41 | 89.02 | 75.00 | 58.34 | 24.61 | -28.59 | -79.83 |

1/ The North Central Region includes Minnesota, Iowa, Missouri, Illinois, Indiana, and Ohio.

2/ 1993-1996 include fuel and lube only.

Note: 1990 through 1996 estimates were based on a revised methodology and are not directly comparable with results for previous years.

SOURCE: ECONOMIC RESEARCH SERVICE, UNITED STATES DEPARTMENT OF AGRICULTURE, WASHINGTON, D.C.
INTERNET WEB SITE (www.econ.ag.gov/briefing/fbe/car/cowcalf3.htm)



MILK: PRODUCTION CASH COSTS AND RETURNS, UPPER MIDWEST REGION, 1988-96 1/

| Item | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
|--|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Dollars per Cwt | | | | | | | | |
| Gross value of production: | | | | | | | | | |
| Milk | 11.92 | 13.35 | 13.50 | 12.04 | 13.11 | 12.89 | 13.04 | 12.83 | 14.74 |
| Cattle | 1.34 | 1.61 | 1.73 | 1.63 | 1.56 | 1.24 | 1.15 | 1.00 | 0.89 |
| Other income 2/ | 0.00 | 0.15 | 0.18 | 0.17 | 0.19 | 0.60 | 0.64 | 0.76 | 0.77 |
| Total, gross value of production | 13.26 | 15.11 | 15.41 | 13.84 | 14.86 | 14.73 | 14.83 | 14.59 | 16.40 |
| Cash expenses: | | | | | | | | | |
| Feed-- | | | | | | | | | |
| Concentrates | 2.99 | 3.12 | 3.13 | 3.14 | 2.85 | 3.68 | 3.77 | 3.53 | 4.19 |
| By-products | 0.15 | 0.08 | 0.08 | 0.08 | 0.08 | 0.11 | 0.11 | 0.11 | 0.11 |
| Liquid whey 3/ | --- | --- | --- | --- | --- | 0.14 | 0.14 | 0.15 | 0.16 |
| Hay | 1.58 | 1.30 | 1.20 | 0.96 | 1.07 | 1.31 | 1.15 | 0.98 | 1.04 |
| Silage | 1.34 | 1.20 | 1.05 | 0.99 | 1.05 | 1.90 | 1.66 | 1.41 | 1.51 |
| Pasture and other forage | 0.08 | 0.04 | 0.03 | 0.04 | 0.04 | 0.11 | 0.10 | 0.13 | 0.16 |
| Total feed costs | 6.14 | 5.74 | 5.49 | 5.21 | 5.09 | 7.25 | 6.93 | 6.31 | 7.17 |
| Other-- | | | | | | | | | |
| Hauling and marketing | 0.59 | 0.47 | 0.49 | 0.50 | 0.50 | 0.52 | 0.56 | 0.52 | 0.50 |
| Artificial insemination | 0.12 | 0.14 | 0.13 | 0.13 | 0.15 | 0.16 | 0.17 | 0.16 | 0.15 |
| Veterinary and medicine | 0.19 | 0.24 | 0.24 | 0.22 | 0.25 | 0.45 | 0.48 | 0.44 | 0.43 |
| Fuel, lube, and electricity | 0.22 | 0.23 | 0.25 | 0.25 | 0.23 | 0.59 | 0.57 | 0.57 | 0.62 |
| Machinery and building repairs | 0.43 | 0.56 | 0.55 | 0.54 | 0.56 | 0.96 | 1.02 | 1.04 | 1.01 |
| Hired labor | 0.65 | 0.42 | 0.46 | 0.46 | 0.49 | 0.65 | 0.65 | 0.58 | 0.56 |
| DHIA fees | 0.06 | 0.05 | 0.05 | 0.05 | 0.05 | 0.07 | 0.08 | 0.07 | 0.07 |
| Dairy assessment | 0.03 | 0.00 | 0.01 | 0.05 | 0.13 | 0.14 | 0.17 | 0.16 | 0.03 |
| Other variable cash expenses 4/ | 0.19 | 0.24 | 0.25 | 0.24 | 0.24 | 0.63 | 0.68 | 0.66 | 0.65 |
| Total, variable cash expenses | 8.62 | 8.09 | 7.92 | 7.65 | 7.69 | 11.42 | 11.31 | 10.51 | 11.19 |
| General farm overhead | 0.95 | 0.54 | 0.66 | 0.60 | 0.57 | 0.59 | 0.64 | 0.67 | 0.65 |
| Taxes and insurance | 0.48 | 0.45 | 0.43 | 0.45 | 0.46 | 0.34 | 0.38 | 0.38 | 0.43 |
| Interest | 1.19 | 0.92 | 0.99 | 0.93 | 0.79 | 0.99 | 1.01 | 1.14 | 1.16 |
| Total, fixed cash expenses | 2.62 | 1.91 | 2.08 | 1.98 | 1.82 | 1.92 | 2.03 | 2.19 | 2.24 |
| Total, cash expenses | 11.24 | 10.00 | 10.00 | 9.63 | 9.51 | 13.34 | 13.34 | 12.70 | 13.43 |
| Gross value of production less cash expenses | 2.02 | 5.11 | 5.41 | 4.21 | 5.35 | 1.39 | 1.49 | 1.89 | 2.97 |

1/ The Upper Midwest Region includes Minnesota, Wisconsin, Michigan, and South Dakota.

2/ Includes the dairy enterprise share of receipts from cooperative patronage dividends, assessment refunds, renting or leasing of dairy animals, manure sales, and insurance indemnity payments.

3/ Not available prior to 1993.

4/ Includes the dairy enterprise share of expenses for bedding and litter, custom manure hauling and disposal, and dairy supplies.

Note: Survey base changed in 1989.

SOURCE: ECONOMIC RESEARCH SERVICE, UNITED STATES DEPARTMENT OF AGRICULTURE, WASHINGTON, D.C.
INTERNET WEB SITE (www.econ.ag.gov/briefing/fbe/car/milk3.htm)



FARM INCOME

Net farm income received by Minnesota farmers in 1996 was the largest amount received since 1973.

Total net farm income for 1996 was \$2,242.9 million, compared to \$1,058.0 million in 1995. This compares to \$96.4 million in 1993, a year of low crop production due to weather problems.

The "average" Minnesota farm had gross farm income of \$113,794 in 1996. However, expenses used up \$88,014 of the income, leaving the typical farm with \$25,780 of net farm income in 1996, compared with \$12,161 in 1995 and \$1,108 in 1993.

MINNESOTA FARM INCOME AND PRODUCTION EXPENSES



FARM INCOME AND EXPENSES: MINNESOTA, 1992-96

| Year | Cash Receipts From Farm Marketings | Government Payments | Noncash Income 1/ | Farm Related Income 2/ | Value of Inventory Adjustment 3/ | Total Gross Farm Income | Total Farm Production Expenses | Total Net Farm Income |
|-----------------|------------------------------------|---------------------|-------------------|------------------------|----------------------------------|-------------------------|--------------------------------|-----------------------|
| Million Dollars | | | | | | | | |
| 1992 | 6,809.2 | 422.0 | 307.5 | 292.5 | 54.5 | 7,885.7 | 6,533.3 | 1,352.5 |
| 1993 | 6,338.8 | 823.3 | 323.4 | 296.3 | -795.1 | 6,986.6 | 6,890.3 | 96.4 |
| 1994 | 6,407.3 | 622.3 | 348.0 | 310.1 | 1,148.2 | 8,836.0 | 7,357.0 | 1,479.0 |
| 1995 | 7,142.2 | 467.6 | 372.5 | 316.4 | 100.0 | 8,398.7 | 7,327.9 | 1,070.8 |
| 1996 | 8,800.3 | 348.8 | 385.5 | 343.4 | 13.4 | 9,891.4 | 7,657.2 | 2,234.2 |
| 1997 4/ | 8,050.0 | | | | | | | |

1/ Includes value of home consumption and housing.

2/ Includes income from custom work, machine hire, and recreation.

3/ Estimated physical change in crops and livestock owned by farmers, valued at average prices prevailing during the year.

4/ Data not available at time of publication.

Note: Figures may not add due to rounding.

AVERAGE PER FARM INCOME: MINNESOTA, 1992-1996 1/

| Year | Number of Farms | Gross Farm Income | Farm Production Expenses | Net Farm Income |
|-------|-----------------|-------------------|--------------------------|-----------------|
| 1,000 | | Dollars | | |
| 1992 | 88 | 89,610 | 74,242 | 15,369 |
| 1993 | 87 | 80,306 | 79,199 | 1,108 |
| 1994 | 85 | 103,953 | 86,553 | 17,400 |
| 1995 | 87 | 96,537 | 84,229 | 12,308 |
| 1996 | 87 | 113,694 | 88,014 | 25,680 |

1/ Farms having annual sales of ag products of \$1,000 or more.

Note: Figures may not add due to rounding.

SOURCE: ECONOMIC RESEARCH SERVICE, UNITED STATES DEPARTMENT OF AGRICULTURE, WASHINGTON, D.C.

FARM CASH RECEIPTS: BY COUNTY AND DISTRICT, MINNESOTA, 1995-96

| County and District | 1995 | | | | 1996 | | | |
|----------------------|---------|--------------|---------------------|-----------|---------|--------------|---------------------|-----------|
| | Crops | Livestock 1/ | Government Payments | Total | Crops | Livestock 1/ | Government Payments | Total |
| 1,000 Dollars | | | | | | | | |
| Becker | 28,924 | 50,821 | 4,174 | 83,919 | 37,279 | 61,820 | 3,932 | 103,031 |
| Clay | 103,217 | 28,064 | 7,200 | 138,481 | 126,915 | 33,502 | 8,321 | 168,738 |
| Clearwater | 6,408 | 19,094 | 834 | 26,336 | 6,647 | 23,105 | 848 | 30,600 |
| Kittson | 50,165 | 6,244 | 11,984 | 68,393 | 63,634 | 7,409 | 10,277 | 81,320 |
| Mahnomen | 13,895 | 8,343 | 2,352 | 24,590 | 23,280 | 9,594 | 2,201 | 35,075 |
| Marshall | 84,017 | 9,061 | 23,369 | 116,447 | 107,127 | 10,130 | 17,169 | 134,426 |
| Norman | 70,978 | 8,154 | 11,173 | 90,305 | 91,299 | 9,337 | 9,310 | 109,946 |
| Pennington | 17,867 | 6,905 | 8,343 | 33,115 | 20,449 | 7,958 | 5,894 | 34,301 |
| Polk | 177,111 | 19,718 | 23,144 | 219,973 | 228,902 | 22,121 | 18,563 | 269,586 |
| Red Lake | 13,544 | 9,900 | 5,225 | 28,669 | 17,234 | 11,204 | 4,181 | 32,619 |
| Roseau | 28,946 | 21,514 | 9,025 | 59,485 | 38,262 | 25,308 | 9,891 | 73,461 |
| Northwest | 595,072 | 187,818 | 106,823 | 889,713 | 761,028 | 221,488 | 90,587 | 1,073,103 |
| Beltrami | 4,972 | 13,047 | 1,311 | 19,330 | 5,901 | 15,026 | 1,184 | 22,111 |
| Cass | 1,506 | 18,277 | 312 | 20,095 | 3,088 | 20,967 | 574 | 24,629 |
| Hubbard | 11,782 | 5,287 | 514 | 17,583 | 14,408 | 5,967 | 521 | 20,896 |
| Itasca | 1,864 | 4,838 | 143 | 6,845 | 1,972 | 5,334 | 112 | 7,418 |
| Koochiching | 1,812 | 2,352 | 280 | 4,444 | 1,656 | 2,663 | 224 | 4,543 |
| Lake of the Woods | 4,223 | 1,651 | 921 | 6,795 | 7,029 | 1,843 | 918 | 9,790 |
| North Central | 26,159 | 45,452 | 3,481 | 75,092 | 34,054 | 51,800 | 3,533 | 89,387 |
| Lake | 52 | 51 | 0 | 103 | 50 | 0 | 0 | 50 |
| St. Louis | 3,486 | 9,487 | 220 | 13,193 | 4,117 | 11,034 | 132 | 15,283 |
| Northeast | 3,538 | 9,538 | 220 | 13,296 | 4,167 | 11,034 | 132 | 15,333 |
| Big Stone | 35,322 | 16,655 | 4,641 | 56,618 | 45,369 | 19,684 | 3,883 | 68,936 |
| Chippewa | 90,435 | 16,868 | 4,861 | 112,164 | 104,296 | 19,659 | 4,468 | 128,423 |
| Douglas | 17,402 | 41,257 | 3,388 | 62,047 | 18,675 | 47,549 | 3,364 | 69,588 |
| Grant | 48,965 | 17,239 | 3,899 | 70,103 | 58,561 | 19,778 | 4,624 | 82,963 |
| Lac Qui Parle | 62,397 | 28,384 | 7,355 | 98,136 | 78,980 | 32,705 | 6,984 | 118,669 |
| Otter Tail | 61,789 | 128,877 | 8,524 | 199,190 | 68,513 | 151,291 | 8,725 | 228,529 |
| Pope | 34,977 | 37,236 | 5,255 | 77,468 | 37,359 | 42,638 | 4,454 | 84,451 |
| Stevens | 54,368 | 45,190 | 6,466 | 106,024 | 63,121 | 51,212 | 5,959 | 120,292 |
| Swift | 75,631 | 29,808 | 6,936 | 112,375 | 93,629 | 35,546 | 5,800 | 134,975 |
| Wilkin | 81,158 | 5,997 | 3,696 | 90,851 | 97,430 | 6,877 | 5,340 | 109,647 |
| Yellow Medicine | 83,164 | 37,644 | 8,751 | 129,559 | 96,845 | 45,135 | 6,764 | 148,744 |
| West Central | 645,608 | 405,155 | 63,772 | 1,114,535 | 762,778 | 472,074 | 60,365 | 1,295,217 |
| Benton | 17,063 | 66,862 | 2,026 | 85,951 | 16,369 | 82,624 | 1,577 | 100,570 |
| Carver | 28,012 | 51,786 | 2,625 | 82,423 | 27,821 | 59,218 | 1,914 | 88,953 |
| Kandiyohi | 75,995 | 128,159 | 8,208 | 212,362 | 78,585 | 164,735 | 6,366 | 249,686 |
| McLeod | 54,877 | 43,253 | 3,794 | 101,924 | 50,710 | 50,369 | 2,993 | 104,072 |
| Meeker | 54,378 | 64,382 | 5,785 | 124,545 | 54,363 | 79,215 | 4,271 | 137,849 |
| Morrison | 19,262 | 113,088 | 3,101 | 135,451 | 16,485 | 137,215 | 2,760 | 156,460 |
| Renville | 184,224 | 62,692 | 10,050 | 256,966 | 205,362 | 79,868 | 7,263 | 292,493 |
| Scott | 22,347 | 31,025 | 1,710 | 55,082 | 22,260 | 35,095 | 1,563 | 58,918 |
| Sherburne | 26,173 | 18,537 | 1,210 | 45,920 | 28,312 | 22,569 | 886 | 51,767 |
| Sibley | 74,160 | 80,540 | 5,694 | 160,394 | 78,873 | 100,199 | 3,672 | 182,744 |
| Stearns | 46,825 | 248,725 | 9,096 | 304,646 | 46,732 | 296,148 | 7,296 | 350,176 |
| Todd | 16,857 | 90,413 | 2,956 | 110,226 | 16,946 | 106,772 | 2,973 | 126,691 |
| Traverse | 58,846 | 10,822 | 4,419 | 74,087 | 76,291 | 12,091 | 4,337 | 92,719 |
| Wadena | 9,215 | 32,887 | 961 | 43,063 | 10,277 | 40,165 | 811 | 51,253 |
| Wright | 41,220 | 56,113 | 3,170 | 100,503 | 39,883 | 65,092 | 2,529 | 107,504 |
| Central | 729,454 | 1,099,284 | 64,805 | 1,893,543 | 769,269 | 1,331,375 | 51,211 | 2,151,855 |

See Footnotes at end of table.

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FARM CASH RECEIPTS: BY COUNTY AND DISTRICT, MINNESOTA, 1995-96 (continued)

| County and District | 1995 | | | | 1996 | | | |
|----------------------|------------------|------------------|---------------------|------------------|------------------|------------------|---------------------|------------------|
| | Crops | Livestock 1/ | Government Payments | Total | Crops | Livestock 1/ | Government Payments | Total |
| | 1,000 Dollars | | | | | | | |
| Aitkin | 6,322 | 12,317 | 227 | 18,866 | 7,512 | 14,654 | 266 | 22,432 |
| Anoka | 13,304 | 8,532 | 423 | 22,259 | 12,976 | 10,769 | 334 | 24,079 |
| Carlton | 1,337 | 8,522 | 116 | 9,975 | 1,278 | 9,911 | 100 | 11,289 |
| Chisago | 14,787 | 13,127 | 1,238 | 29,152 | 15,190 | 15,172 | 868 | 31,230 |
| Crow Wing | 2,792 | 12,590 | 342 | 15,724 | 2,985 | 14,928 | 354 | 18,267 |
| Hennepin | 26,288 | 14,084 | 697 | 41,069 | 27,114 | 16,341 | 632 | 44,087 |
| Isanti | 21,126 | 9,674 | 1,656 | 32,456 | 17,133 | 11,673 | 1,189 | 29,995 |
| Kanabec | 4,574 | 17,079 | 571 | 22,224 | 2,900 | 19,688 | 494 | 23,082 |
| Mille Lacs | 4,723 | 26,304 | 795 | 31,822 | 4,885 | 30,439 | 710 | 36,034 |
| Pine | 8,276 | 35,651 | 830 | 44,757 | 7,139 | 42,201 | 770 | 50,110 |
| Ramsey | 4,708 | 230 | 0 | 4,938 | 4,690 | 290 | 0 | 4,980 |
| Washington | 42,513 | 9,311 | 1,209 | 53,033 | 41,921 | 10,752 | 803 | 53,476 |
| Watsonwan | 65,025 | 32,728 | 6,493 | 104,246 | 71,400 | 41,308 | 3,352 | 116,060 |
| East Central | 215,775 | 200,149 | 14,597 | 430,521 | 217,123 | 238,126 | 9,872 | 465,121 |
| Cottonwood | 85,507 | 70,025 | 8,840 | 164,372 | 95,390 | 83,277 | 5,489 | 184,156 |
| Jackson | 93,955 | 66,206 | 10,581 | 170,742 | 109,707 | 80,831 | 5,305 | 195,843 |
| Lincoln | 25,694 | 35,584 | 7,240 | 68,518 | 30,426 | 41,800 | 6,520 | 78,746 |
| Lyon | 67,206 | 65,584 | 8,329 | 141,119 | 81,552 | 79,227 | 5,434 | 166,213 |
| Murray | 73,906 | 57,647 | 7,927 | 139,480 | 80,173 | 66,671 | 4,994 | 151,838 |
| Nobles | 85,615 | 79,639 | 9,208 | 174,462 | 99,244 | 96,198 | 4,592 | 200,034 |
| Pipestone | 35,771 | 40,248 | 4,377 | 80,396 | 41,619 | 48,272 | 3,344 | 93,235 |
| Redwood | 109,888 | 82,031 | 10,793 | 202,712 | 127,016 | 98,206 | 6,757 | 231,979 |
| Rock | 45,989 | 68,210 | 5,938 | 120,137 | 54,567 | 81,270 | 3,481 | 139,318 |
| Southwest | 623,531 | 565,174 | 73,233 | 1,261,938 | 719,694 | 675,752 | 45,916 | 1,441,362 |
| Blue Earth | 92,886 | 63,152 | 9,624 | 165,662 | 103,056 | 81,053 | 5,567 | 189,676 |
| Brown | 73,429 | 75,600 | 6,748 | 155,777 | 81,235 | 93,666 | 4,190 | 179,091 |
| Faribault | 116,093 | 41,867 | 10,209 | 168,169 | 123,694 | 52,376 | 5,097 | 181,167 |
| Freeborn | 97,695 | 50,659 | 11,290 | 159,644 | 103,639 | 63,082 | 6,397 | 173,118 |
| Le Sueur | 50,323 | 40,121 | 6,244 | 96,688 | 48,692 | 48,311 | 4,850 | 101,853 |
| Martin | 111,232 | 73,035 | 11,409 | 195,676 | 120,729 | 96,862 | 4,892 | 222,483 |
| Nicollet | 62,944 | 70,444 | 5,282 | 138,670 | 65,763 | 90,466 | 3,082 | 159,311 |
| Rice | 39,220 | 65,674 | 6,067 | 110,961 | 39,304 | 81,057 | 4,591 | 124,952 |
| Steele | 58,199 | 40,498 | 6,914 | 105,611 | 60,508 | 50,028 | 4,559 | 115,095 |
| Waseca | 61,936 | 28,871 | 7,097 | 97,904 | 65,634 | 36,364 | 3,993 | 105,991 |
| South Central | 763,957 | 549,921 | 80,884 | 1,394,762 | 812,254 | 693,265 | 47,218 | 1,552,737 |
| Dakota | 63,972 | 37,709 | 4,852 | 106,533 | 64,295 | 43,544 | 3,047 | 110,886 |
| Dodge | 58,616 | 42,824 | 5,799 | 107,239 | 56,370 | 51,950 | 3,298 | 111,618 |
| Fillmore | 55,388 | 92,095 | 10,845 | 158,328 | 60,294 | 110,628 | 7,768 | 178,690 |
| Goodhue | 65,042 | 92,783 | 7,059 | 164,884 | 68,647 | 109,155 | 5,043 | 182,845 |
| Houston | 19,622 | 72,099 | 4,410 | 96,131 | 21,553 | 82,853 | 3,168 | 107,574 |
| Mower | 100,139 | 56,557 | 9,693 | 166,389 | 104,131 | 68,144 | 5,085 | 177,360 |
| Olmsted | 49,960 | 71,314 | 8,077 | 129,351 | 51,801 | 84,875 | 5,773 | 142,449 |
| Wabasha | 27,185 | 61,384 | 4,475 | 93,044 | 30,476 | 70,941 | 3,547 | 104,964 |
| Winona | 27,057 | 82,951 | 4,568 | 114,576 | 28,718 | 97,196 | 3,220 | 129,134 |
| Southeast | 466,981 | 609,716 | 59,778 | 1,136,475 | 486,285 | 719,286 | 39,949 | 1,245,520 |
| Minnesota | 4,070,075 | 3,672,207 | 467,593 | 8,209,875 | 4,566,652 | 4,414,200 | 348,783 | 9,329,635 |

1/ Includes estimates of interfarm and intrastate sales of livestock, resulting in larger total cash receipts than shown in USDA estimates on pages 15 and 18.

2/ Less than \$50,000, included in totals.

Note: 1997 numbers were not available at time of publication.

SOURCE: BUREAU OF ECONOMIC ANALYSIS, U.S. DEPARTMENT OF COMMERCE, WASHINGTON, D.C.

4,567
4,414
9,001

CASH RECEIPTS FROM FARM MARKETINGS: MINNESOTA, 1994-96 1/

| Commodity | 1994 | | 1995 | | 1996 | |
|---------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | Dollars | Percent of Total | Dollars | Percent of Total | Dollars | Percent of Total |
| | <u>1,000</u> | <u>Percent</u> | <u>1,000</u> | <u>Percent</u> | <u>1,000</u> | <u>Percent</u> |
| CROPS: 2/ | | | | | | |
| Feed Crops | | | | | | |
| Corn | 831,755 | 13.0 | 1,304,536 | 18.3 | 1,729,550✓ | 19.7 |
| Oats | 8,833 | 0.1 | 9,828 | 0.1 | 10,379 | 0.1 |
| Barley | 51,392 | 0.8 | 53,078 | 0.7 | 64,278✓ | 0.7 |
| Hay | 113,047 | 1.8 | 72,494 | 1.0 | 60,966✓ | 0.7 |
| Food Grains | | | | | | |
| Wheat | 241,866 | 3.8 | 278,963 | 3.9 | 422,933 | 4.8 |
| Rye | 1,336 | * | 1,289 | * | 1,012 | * |
| Oil Crops | | | | | | |
| Soybeans | 934,124 | 14.6 | 1,271,404 | 17.8 | 1,550,163 | 17.6 |
| Sunflowers | 53,427 | 0.8 | 68,340 | 1.0 | 28,243 | 0.3 |
| Vegetable Crops | | | | | | |
| Potatoes | 92,971 | 1.5 | 85,353 | 1.2 | 106,596 | 1.2 |
| Sweet Corn (processed) | 52,787 | 0.8 | 48,357 | 0.7 | 56,113 | 0.6 |
| Green Peas (processed) | 30,547 | 0.5 | 32,818 | 0.5 | 38,817 | 0.4 |
| Other Crops | | | | | | |
| Sugarbeets | 358,154 | 5.6 | 282,492 | 4.0 | 375,434 | 4.3 |
| Dry Beans | 38,207 | 0.6 | 32,918 | 0.5 | 56,746 | 0.6 |
| Apples | 6,892 | 0.1 | 7,559 | 0.1 | 8,611 | 0.1 |
| Floriculture | 51,414 | 0.8 | 54,578 | 0.8 | 54,322✓ | 0.6 |
| Other Crops, Fruits, Vegetables 3/ | 92,571 | 1.4 | 89,970 | 1.3 | 89,628 | 1.0 |
| Total Crops | 2,959,323 | 46.2 | 3,693,977 | 51.7 | 4,653,791 | 52.9 |
| LIVESTOCK AND PRODUCTS: | | | | | | |
| Meat Animals | | | | | | |
| Cattle & Calves | 859,566 | 13.4 | 835,231 | 11.7 | 903,488 | 10.3 |
| Hogs | 832,128 | 13.0 | 865,073 | 12.1 | 1,115,650 | 12.7 |
| Sheep & Lambs | 16,113 | 0.3 | 15,096 | 0.2 | 16,065 | 0.2 |
| Dairy Products | 1,194,086 | 18.6 | 1,181,688 | 16.6 | 1,362,180 | 15.5 |
| Poultry & Eggs | | | | | | |
| Turkeys | 304,776 | 4.8 | 299,093 | 4.2 | 426,735 | 4.9 |
| Broilers | 84,524 | 1.3 | 83,616 | 1.2 | 94,425 | 1.1 |
| Chicken Eggs | 88,967 | 1.4 | 98,335 | 1.4 | 150,491✓ | 1.7 |
| Other Livestock Products | | | | | | |
| Honey | 6,984 | 0.1 | 9,471 | 0.1 | 10,395 | 0.1 |
| Miscellaneous Livestock & Products 4/ | 60,858 | 0.9 | 60,640 | 0.9 | 67,076 | 0.8 |
| Total Livestock | 3,448,002 | 53.8 | 3,448,243 | 48.3 | 4,146,505 | 47.1 |
| TOTAL ALL CROPS AND LIVESTOCK | 6,407,325 | 100.0 | 7,142,220 | 100.0 | 8,800,296 | 100.0 |

1/ 1994 and 1995 are revised; 1996 is preliminary.

2/ Includes Commodity Credit loans (calculated by crop open market sales plus net CCC loans).

3/ Flax, Kentucky bluegrass, red clover, timothy, and other seeds; asparagus, green lima beans, snap beans, cabbage, onions, carrots, cucumbers, miscellaneous vegetables, mushrooms, other fruits, and field crops.

4/ Wool, mink, goats, horses, mules, ducks, geese, beeswax, turkey eggs, farm chickens, and other livestock and poultry.

* Less than 0.1%.

Note: Percents may not add to totals because of rounding.

SOURCE: ECONOMIC RESEARCH SERVICE, UNITED STATES DEPARTMENT OF AGRICULTURE, WASHINGTON, D.C.
INTERNET WEB SITE (www.econ.ag.gov/briefing/fbe/fi/ficrdmu.htm#states_m)

same as p. 15

FARM BALANCE SHEET: MINNESOTA, 1992-96

| Item | 1992 | 1993 | 1994 | 1995 | 1996 |
|---------------------------------|----------|----------|----------|----------|----------|
| <u>Million Dollars</u> | | | | | |
| Total Farm Assets: | 35,996.6 | 35,673.9 | 36,147.2 | 38,025.5 | 39,731.1 |
| Real Estate | 23,943.5 | 23,794.9 | 24,127.3 | 25,246.1 | 26,901.6 |
| Livestock and Poultry 1/ | 2,345.7 | 2,362.2 | 2,178.5 | 2,118.0 | 2,193.8 |
| Machinery and Motor Vehicles 2/ | 5,130.2 | 5,180.4 | 5,152.6 | 5,254.9 | 5,207.3 |
| Crops 3/ | 1,817.9 | 1,545.1 | 1,641.1 | 2,357.8 | 2,276.0 |
| Purchased Inputs | 327.1 | 335.3 | 443.6 | 291.3 | 355.3 |
| Financial | 2,432.3 | 2,456.1 | 2,604.1 | 2,757.4 | 2,797.2 |
| Total Farm Debt: | 6,750.5 | 6,913.8 | 7,322.7 | 7,707.0 | 8,104.2 |
| By Purpose: | | | | | |
| Real Estate | 3,530.1 | 3,633.7 | 3,768.5 | 3,890.7 | 4,017.1 |
| Nonreal Estate 4/ | 3,220.4 | 3,280.0 | 3,554.3 | 3,816.3 | 4,087.1 |
| By Lender: | | | | | |
| Farm Credit Services | 1,662.2 | 1,684.9 | 1,818.1 | 1,945.6 | 2,138.6 |
| Farm Service Agency | 474.5 | 424.8 | 426.9 | 395.1 | 346.2 |
| Commercial Banks | 2,819.6 | 2,913.7 | 3,093.2 | 3,301.6 | 3,434.7 |
| Life Insurance Companies | 194.2 | 208.7 | 209.9 | 215.9 | 250.8 |
| Individuals and others | 1,599.7 | 1,681.8 | 1,774.6 | 1,848.8 | 1,933.8 |
| Total Farm Equity | 29,246.1 | 28,760.1 | 28,824.4 | 30,318.5 | 31,626.9 |
| <u>Ratio</u> | | | | | |
| Debt/Equity Ratio | 23.1 | 24.0 | 25.4 | 25.4 | 25.6 |
| Debt/Assets Ratio | 18.8 | 19.4 | 20.3 | 20.3 | 20.4 |

1/ Excludes horses, mules, and broilers.

2/ Includes only farm share value for trucks and autos.

3/ All non-CCC crops held on farms plus the value above loan rate for crops held under CCC.

4/ Excludes debt for nonfarm purposes.

SOURCE: ECONOMIC RESEARCH SERVICE, UNITED STATES DEPARTMENT OF AGRICULTURE, WASHINGTON, D.C.



1997 CLIMATE SUMMARY

During his opening remarks at a press briefing on April 25, 1997, Director Kent Lokkesmoe of the DNR - Division of Waters said: "In the historical record, we have not seen a comparable sequence of such extreme precipitation events which have affected so much of the Red River basin in a single over-winter season." This single sentence describes the climate scenario leading to one of the greatest natural disasters in Minnesota and North Dakota history. Cataclysmic April flooding along the Red River of the North and the upper reaches of the Minnesota River forced thousands from their homes and caused hundreds of millions of dollars in damage.

The winter of 1996-1997 brought the greatest snowfall totals ever recorded over large areas of the Red River and upper Minnesota River basins. Not only was the snowfall noteworthy in its intensity, but also in geographical extent. Six to eight blizzards, and numerous smaller snowstorms, dropped over six feet of snow over northwestern and west central Minnesota. Some areas received an improbable (for the region) eight feet of snowfall. As the spring snowmelt season approached, thigh-deep wet snow filled the landscapes of the eastern Dakotas and western Minnesota (not to mention the towering snowdrifts).

The conditions described above were enough to generate overwhelming flooding. However, a major winter storm hammered the region from April 4 to April 6 and further exaggerated an already dire situation.

Sharp contrasts marked the 1997 growing season. Following the heavy snows of Winter, the spring weather suddenly turned dry. This climatic flip-flop led to one of the driest springs ever recorded in some areas. With concern growing for an imminent drought, northwestern, central and southern sections of Minnesota were abruptly soaked by one of the wettest Julys ever experienced. Only northeastern Minnesota missed the July deluge, and the continued dryness reduced that region's streams to a trickle and enhanced forest fire potential.

After the early spring rain and blizzard of April 5 and 6, the weather was cold and dry for the remainder of the spring season. From early-April to late-June, much of Minnesota experienced below normal precipitation. The driest areas were found in east central, and central Minnesota. In some Minnesota communities, April 1 - June 23 precipitation totals were near or below all-time low precipitation records. Cool weather mitigated the extreme dryness somewhat by reducing evaporation demand.

The dry spell ended abruptly in the Northwest when heavy rains drenched many counties on June 22-24. Heavy rains returned to Minnesota on June 28-29 when a complex of thunderstorms brought downpours to portions of northwestern, central, and southwestern Minnesota.

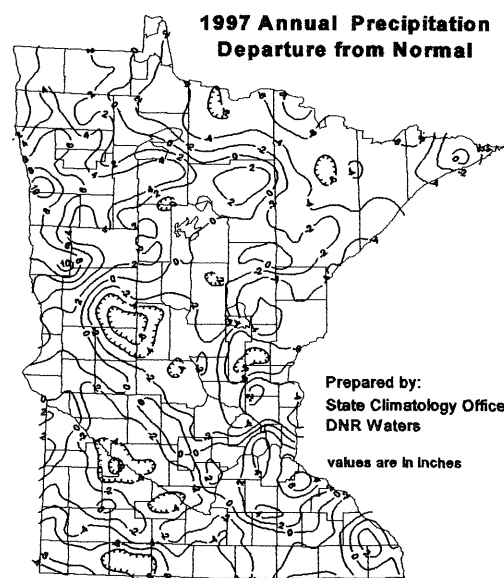
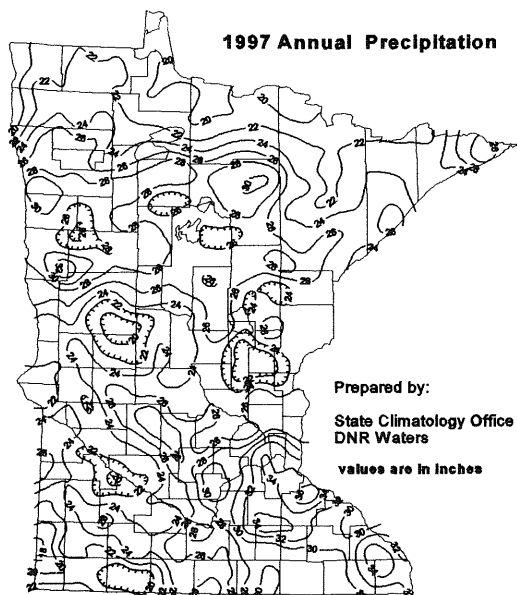
On July 1, for the third time in roughly a week, heavy rains fell across portions of northwestern and central Minnesota. The severe thunderstorms that brought about the intense rains, also caused extensive wind damage throughout central and east central Minnesota. Hail-damaged fields, particularly in western Minnesota, became an increasingly common sight throughout late June and into July. The heavy rains continued through July in central, east central, and southeastern Minnesota.

How wet was the summer of 1997? For the period June 24 to August 4, large areas of northwest, north central, central, and east central Minnesota were near or above all-time high precipitation records. Numerous communities recorded over one foot of rain in this six-week period. Twelve inches of rain is two to three times the historical average.

The summer of 1997 also brought temperature quirks. The first week of July was one of the coldest July weeks in history. In contrast to the cold weather in early July, the second half of the month was warm and very humid. Numerous communities around the state broke high dew point temperature records.

The early and mid-Autumn brought a pleasant mix of dry and warm weather, leading to excellent harvesting conditions. For many locations, the first frost of the Autumn did not arrive until mid-October. After a wet week in mid-October, the weather once again turned dry, but the temperature patterns that ensued brought significant change. Cold temperatures remained in place through the second half of October and throughout November. The weather changed sharply once again in December, with very warm temperatures (for the season) returning to Minnesota. This was the beginning of what was to become one of the warmest winters in Minnesota history.

SOURCE: STATE CLIMATOLOGY OFFICE, DNR - DIVISION OF WATERS



MEDIAN FROST DATES IN MINNESOTA BASED ON AVERAGES FROM 1948-1992

| County and District | | Average Date of Last Temperature Occurrence | | | Average Date of First Temperature Occurrence | | | Number of Days Between Average Last Spring and First Fall Occurrence of: | | |
|----------------------|------------------|---|--------|--------|--|--------|--------|--|------|------|
| | | 24°F | 28°F | 32°F | 32°F | 28°F | 24°F | 32°F | 28°F | 24°F |
| Northwest | | | | | | | | | | |
| Norman | Ada | Apr 24 | May 06 | May 14 | Sep 24 | Oct 02 | Oct 13 | 133 | 153 | 176 |
| Marshall | Argyle | Apr 26 | May 09 | May 18 | Sep 22 | Sep 28 | Oct 10 | 126 | 143 | 168 |
| Polk | Crookston | Apr 25 | May 08 | May 16 | Sep 23 | Sep 29 | Oct 13 | 129 | 145 | 170 |
| Becker | Detroit Lakes | May 02 | May 10 | May 21 | Sep 17 | Sep 24 | Oct 05 | 116 | 139 | 157 |
| Polk | Fosston | Apr 26 | May 07 | May 17 | Sep 21 | Sep 28 | Oct 16 | 127 | 146 | 173 |
| Kittson | Hallock | Apr 27 | May 09 | May 19 | Sep 23 | Oct 02 | Oct 10 | 126 | 144 | 165 |
| Clay | Moorhead | Apr 21 | May 06 | May 13 | Sep 24 | Oct 04 | Oct 15 | 135 | 152 | 178 |
| Red Lake | Red Lake Falls | Apr 20 | May 08 | May 17 | Sep 22 | Sep 28 | Oct 10 | 127 | 141 | 176 |
| Roseau | Roseau | May 04 | May 14 | May 25 | Sep 16 | Sep 25 | Oct 07 | 112 | 137 | 159 |
| Roseau | Warroad | Apr 30 | May 10 | May 21 | Sep 23 | Sep 28 | Oct 12 | 124 | 141 | 165 |
| North Central | | | | | | | | | | |
| Lake of the Woods | Baudette | Apr 28 | May 09 | May 22 | Sep 22 | Sep 28 | Oct 13 | 122 | 146 | 164 |
| Beltrami | Bemidji | May 04 | May 09 | May 22 | Sep 22 | Sep 27 | Oct 15 | 124 | 136 | 164 |
| Koochiching | Big Falls | May 04 | May 15 | Jun 01 | Sep 15 | Sep 24 | Oct 05 | 108 | 135 | 159 |
| Itasca | Grand Rapids | Apr 27 | May 09 | May 23 | Sep 20 | Sep 27 | Oct 09 | 116 | 141 | 165 |
| Koochiching | Int'l Falls | Apr 29 | May 12 | May 24 | Sep 17 | Sep 25 | Oct 08 | 114 | 138 | 163 |
| Hubbard | Park Rapids | May 01 | May 08 | May 19 | Sep 20 | Sep 27 | Oct 07 | 124 | 143 | 162 |
| Northeast | | | | | | | | | | |
| St. Louis | Babbitt | Apr 28 | May 09 | May 21 | Sep 23 | Oct 05 | Oct 22 | 125 | 153 | 174 |
| St. Louis | Duluth (Airport) | Apr 24 | May 09 | May 20 | Sep 22 | Oct 05 | Oct 17 | 124 | 154 | 175 |
| Cook | Grand Marais | Apr 17 | May 01 | May 15 | Sep 30 | Oct 19 | Oct 30 | 138 | 171 | 194 |
| St. Louis | Hibbing | Apr 28 | May 12 | May 29 | Sep 13 | Sep 26 | Oct 06 | 107 | 137 | 163 |
| West Central | | | | | | | | | | |
| Douglas | Alexandria | Apr 13 | Apr 24 | May 08 | Oct 01 | Oct 12 | Oct 25 | 146 | 169 | 194 |
| Swift | Benson | Apr 13 | Apr 29 | May 07 | Sep 30 | Oct 10 | Oct 18 | 146 | 166 | 189 |
| Wilkin | Campbell | Apr 20 | Apr 29 | May 10 | Sep 24 | Oct 02 | Oct 14 | 136 | 156 | 179 |
| Yellow Medicine | Canby | Apr 14 | Apr 28 | May 08 | Oct 01 | Oct 10 | Oct 21 | 147 | 163 | 189 |
| Otter Tail | Fergus Falls | Apr 16 | Apr 30 | May 09 | Sep 27 | Oct 09 | Oct 21 | 143 | 162 | 188 |
| Lac Qui Parle | Madison | Apr 14 | Apr 29 | May 07 | Sep 28 | Oct 09 | Oct 20 | 144 | 166 | 192 |
| Lac Qui Parle | Montevideo | Apr 13 | Apr 28 | May 07 | Sep 30 | Oct 10 | Oct 21 | 146 | 169 | 192 |
| Stevens | Morris | Apr 14 | Apr 29 | May 08 | Sep 27 | Oct 06 | Oct 17 | 143 | 161 | 185 |
| Traverse | Wheaton | Apr 15 | Apr 28 | May 10 | Sep 28 | Oct 10 | Oct 23 | 143 | 162 | 189 |
| Central | | | | | | | | | | |
| Sibley | Gaylord | Apr 09 | Apr 17 | Apr 30 | Oct 05 | Oct 14 | Oct 24 | 159 | 180 | 193 |
| Scott | Jordan | Apr 13 | Apr 28 | May 10 | Sep 27 | Oct 07 | Oct 20 | 143 | 164 | 190 |
| Morrison | Little Falls | Apr 19 | May 02 | May 12 | Sep 24 | Oct 03 | Oct 17 | 136 | 154 | 181 |
| Stearns | Melrose | Apr 12 | Apr 28 | May 11 | Sep 24 | Oct 05 | Oct 16 | 138 | 160 | 186 |
| Stearns | St. Cloud | Apr 19 | May 01 | May 12 | Sep 24 | Oct 05 | Oct 17 | 138 | 157 | 180 |
| Wadena | Wadena | Apr 22 | May 16 | May 12 | Sep 24 | Oct 03 | Oct 18 | 137 | 156 | 180 |
| Kandiyohi | Willmar | Apr 12 | May 05 | May 02 | Oct 03 | Oct 14 | Oct 24 | 154 | 172 | 193 |
| East Central | | | | | | | | | | |
| Aitkin | Aitkin | Apr 23 | May 06 | May 19 | Sep 23 | Sep 28 | Oct 18 | 126 | 149 | 176 |
| Crow Wing | Brainerd | Apr 22 | May 04 | May 12 | Sep 20 | Oct 01 | Oct 16 | 132 | 151 | 175 |
| Pine | Hinckley | Apr 22 | May 06 | May 20 | Sep 22 | Sep 28 | Oct 10 | 120 | 147 | 172 |
| Hennepin | Maple Plain | Apr 13 | Apr 25 | May 06 | Oct 01 | Oct 13 | Oct 25 | 153 | 169 | 195 |
| Mille Lacs | Milaca | Apr 18 | May 01 | May 12 | Sep 25 | Oct 03 | Oct 18 | 137 | 153 | 184 |
| Carlton | Moose Lake | May 02 | May 16 | May 31 | Sep 16 | Sep 26 | Oct 07 | 109 | 132 | 162 |
| Kanabec | Mora | Apr 21 | May 05 | May 17 | Sep 20 | Oct 01 | Oct 14 | 125 | 151 | 169 |
| Washington | Stillwater | Apr 10 | Apr 16 | May 02 | Oct 07 | Oct 16 | Nov 02 | 160 | 184 | 207 |
| Southwest | | | | | | | | | | |
| Redwood | Lamberton | Apr 09 | Apr 28 | May 06 | Sep 29 | Oct 07 | Oct 15 | 146 | 163 | 188 |
| Rock | Luverne | Apr 16 | Apr 29 | May 07 | Sep 27 | Oct 05 | Oct 16 | 142 | 160 | 177 |
| Lyon | Marshall | Apr 10 | Apr 22 | May 05 | Oct 04 | Oct 15 | Oct 24 | 155 | 176 | 196 |
| Pipestone | Pipestone | Apr 23 | May 05 | May 12 | Sep 23 | Oct 03 | Oct 10 | 135 | 151 | 171 |
| Cottonwood | Windom | Apr 14 | Apr 15 | May 07 | Sep 30 | Oct 07 | Oct 19 | 146 | 167 | 189 |
| South Central | | | | | | | | | | |
| Freeborn | Albert Lea | Apr 09 | Apr 20 | May 02 | Oct 05 | Oct 18 | Oct 31 | 156 | 181 | 201 |
| Martin | Fairmont | Apr 06 | Apr 14 | May 01 | Oct 09 | Oct 20 | Oct 31 | 161 | 189 | 208 |
| Rice | Faribault | Apr 14 | Apr 27 | May 10 | Sep 29 | Oct 11 | Oct 24 | 146 | 167 | 193 |
| Brown | New Ulm | Apr 09 | Apr 23 | May 03 | Sep 28 | Oct 10 | Oct 23 | 148 | 170 | 193 |
| Waseca | Waseca | Apr 12 | Apr 23 | May 06 | Oct 01 | Oct 06 | Oct 24 | 149 | 167 | 192 |
| Faribault | Winnebago | Apr 09 | Apr 19 | May 03 | Oct 06 | Oct 17 | Oct 26 | 158 | 180 | 203 |
| Southeast | | | | | | | | | | |
| Mower | Austin | Apr 12 | Apr 29 | May 07 | Sep 27 | Oct 06 | Oct 23 | 144 | 166 | 191 |
| Houston | Caledonia | Apr 14 | Apr 24 | May 06 | Sep 29 | Oct 11 | Oct 26 | 152 | 174 | 192 |
| Dakota | Farmington | Apr 11 | Apr 21 | May 03 | Oct 03 | Oct 12 | Oct 29 | 155 | 178 | 201 |
| Fillmore | Preston | Apr 21 | May 07 | May 18 | Sep 21 | Sep 29 | Oct 13 | 125 | 148 | 178 |
| Olmsted | Rochester | Apr 11 | Apr 21 | May 08 | Sep 30 | Oct 13 | Oct 27 | 147 | 174 | 197 |
| Winona | Winona | Apr 07 | Apr 17 | Apr 17 | Oct 06 | Oct 19 | Oct 31 | 163 | 184 | 205 |
| Goodhue | Zumbrota | Apr 17 | Apr 30 | Apr 30 | Sep 25 | Oct 03 | Oct 18 | 139 | 157 | 187 |

SOURCE: STATE CLIMATOLOGY OFFICE, DNR - DIVISION OF WATERS

MONTHLY PRECIPITATION: BY SELECTED STATIONS AND DISTRICTS, MINNESOTA, 1997

| Station | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|----------------------|------------------------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|------|
| | Precipitation (Inches) | | | | | | | | | | | |
| Northwest | | | | | | | | | | | | |
| Argyle | 1.29 | .19 | 1.11 | M1.83 | 1.14 | 3.00 | 4.66 | 1.44 | 3.78 | 3.05 | .66 | .14 |
| Crookston | M1.38 | M.14 | .87 | 3.24 | 1.38 | 4.84 | 4.33 | 1.88 | 3.06 | 4.33 | .74 | .23 |
| Mahnomen | 1.49 | .67 | 1.70 | 2.83 | 2.78 | 5.59 | 2.80 | 2.21 | 2.64 | 3.55 | 1.64 | .63 |
| Moorhead | 1.79 | .59 | 1.89 | 3.40 | 2.96 | 5.02 | 2.58 | 2.14 | M3.20 | 4.09 | .84 | .44 |
| District | 1.27 | .34 | 1.33 | 2.52 | 2.19 | 5.29 | 4.07 | 2.14 | 3.07 | 3.24 | 1.10 | .32 |
| Normal | .71 | .48 | .96 | 1.63 | 2.52 | 3.71 | 3.17 | 2.96 | 2.55 | 1.72 | .82 | .69 |
| North Central | | | | | | | | | | | | |
| Grand Rapids | 2.50 | .47 | 1.55 | .77 | 2.24 | 5.92 | 5.77 | 2.16 | 2.28 | 3.02 | 1.27 | .23 |
| Int'l Falls | .72 | .19 | 1.18 | 1.31 | 1.44 | 2.57 | 2.64 | 1.38 | 3.90 | 2.37 | .99 | .23 |
| Park Rapids | .82 | .21 | .85 | 1.40 | 2.39 | M7.60 | 5.32 | 2.48 | 3.01 | 3.42 | .50 | .19 |
| District | 1.43 | .18 | 1.16 | 1.13 | 2.06 | 4.79 | 4.64 | 1.91 | 3.14 | 2.59 | 1.23 | .20 |
| Normal | .78 | .52 | 1.15 | 1.92 | 2.83 | 4.00 | 3.74 | 3.51 | 3.02 | 2.28 | 1.12 | .83 |
| Northeast | | | | | | | | | | | | |
| Duluth | 1.46 | .47 | 1.48 | 1.35 | 2.40 | 5.42 | 4.33 | 1.60 | 1.71 | 2.27 | 1.03 | .13 |
| Grand Marais | 1.64 | .20 | 1.33 | .76 | 1.67 | 3.54 | 2.08 | M.78 | 1.21 | 3.40 | 1.46 | M.19 |
| Hibbing | 1.76 | .54 | 1.29 | 1.01 | 1.84 | 5.96 | 2.74 | 1.29 | 1.88 | 3.22 | .62 | .15 |
| District | 1.70 | .22 | 1.56 | .99 | 2.04 | 4.71 | 2.60 | 1.69 | 2.30 | 2.67 | 1.30 | .23 |
| Normal | .98 | .66 | 1.36 | 2.03 | 2.93 | 4.03 | 3.70 | 3.81 | 3.58 | 2.54 | 1.56 | 1.05 |
| West Central | | | | | | | | | | | | |
| Canby | 3.30 | .53 | 1.44 | 2.69 | 1.17 | .59 | 4.79 | 3.69 | 2.65 | 3.13 | .76 | .37 |
| Fergus Falls | M4.15 | .80 | M2.90 | 2.90 | 1.99 | 3.25 | 2.24 | 2.62 | 1.06 | 4.08 | .78 | .21 |
| Montevideo | 1.36 | .69 | .72 | 2.52 | 1.06 | 1.67 | 6.07 | 1.55 | 1.25 | 1.69 | M.37 | M.60 |
| Morris | 2.25 | .31 | 2.19 | 2.70 | 1.56 | 2.51 | 5.14 | 3.92 | 1.30 | 2.20 | .53 | .21 |
| District | 2.55 | .48 | 1.92 | 2.52 | 1.51 | 2.22 | 4.55 | 3.08 | 1.55 | 2.85 | .62 | .24 |
| Normal | .73 | .67 | 1.39 | 2.22 | 2.84 | 3.81 | 3.31 | 3.01 | 2.46 | 1.99 | 1.05 | .65 |
| Central | | | | | | | | | | | | |
| Hutchinson | 1.15 | .08 | .65 | .95 | 1.06 | 7.00 | 9.33 | 4.89 | 1.80 | .90 | M.69 | .30 |
| Olivia | .88 | .04 | 1.28 | 1.09 | 1.16 | 3.00 | 5.79 | 4.24 | 1.64 | M1.30 | .68 | .29 |
| St. Cloud | 1.71 | .25 | 1.14 | .69 | 1.28 | 2.59 | 6.89 | 5.80 | 1.70 | 1.30 | .98 | .23 |
| Willmar | 1.50 | .07 | 1.33 | .78 | 1.55 | 7.14 | 6.26 | 3.53 | 1.24 | 1.65 | .79 | .31 |
| District | 1.97 | .19 | 1.53 | .80 | 1.53 | 3.89 | 7.31 | 4.79 | 2.19 | 1.64 | .96 | .29 |
| Normal | .79 | .70 | 1.63 | 2.46 | 3.22 | 4.35 | 3.66 | 3.66 | 3.01 | 2.27 | 1.36 | .86 |
| East Central | | | | | | | | | | | | |
| Aitkin | 3.14 | .17 | 1.57 | .73 | 1.57 | 5.18 | 5.99 | 3.00 | 2.54 | 2.42 | 1.71 | .29 |
| Cambridge | 2.24 | .02 | 1.56 | .54 | 1.24 | 4.23 | 8.91 | M2.74 | 1.88 | 2.02 | .87 | .52 |
| MSP-Airport | 1.71 | .30 | 1.18 | 1.01 | 1.70 | 3.70 | 12.60 | 6.01 | 3.19 | 2.03 | .69 | .31 |
| District | 1.97 | .15 | 1.56 | .82 | 1.65 | 4.27 | 7.64 | 3.83 | 2.49 | 2.11 | 1.05 | .40 |
| Normal | .88 | .69 | 1.62 | 2.33 | 3.31 | 4.31 | 3.88 | 3.83 | 3.35 | 2.46 | 1.52 | 1.04 |
| Southwest | | | | | | | | | | | | |
| Lamberton | M1.01 | .16 | 1.34 | M1.51 | 1.48 | 4.64 | 4.90 | 5.05 | 1.70 | 1.26 | .65 | .24 |
| Luverne | .69 | M1.33 | .46 | 1.77 | 3.47 | 4.14 | 2.06 | 1.00 | 1.52 | 1.26 | M.86 | .43 |
| Pipestone | .77 | .65 | .85 | 2.01 | 2.08 | 3.67 | 1.91 | 1.11 | 1.92 | 2.17 | .52 | .30 |
| Redwood Falls | .98 | .55 | 1.42 | 1.49 | 1.63 | 2.99 | 4.46 | 2.92 | 1.44 | .83 | .82 | .33 |
| Windom | 1.41 | .58 | .88 | 1.46 | 3.50 | 7.95 | 4.98 | 3.20 | 1.36 | 1.18 | M1.12 | .49 |
| District | 1.28 | .45 | .99 | 1.94 | 2.60 | 4.10 | 3.57 | 2.38 | 1.74 | 1.46 | .75 | .34 |
| Normal | .58 | .68 | 1.70 | 2.56 | 3.18 | 3.78 | 3.73 | 2.95 | 3.08 | 2.04 | 1.28 | .76 |
| South Central | | | | | | | | | | | | |
| Fairmont | 1.38 | .74 | .65 | 1.60 | 4.69 | 4.51 | 3.93 | 2.28 | 3.67 | 1.67 | M.84 | M.47 |
| Faribault | 1.54 | .26 | .94 | 1.41 | 2.70 | 4.03 | 8.72 | 6.77 | 3.89 | 1.84 | 1.11 | .31 |
| Mankato | 1.59 | .24 | .97 | 1.58 | 3.47 | 5.20 | 6.21 | 3.54 | 1.59 | 1.54 | M1.18 | M.49 |
| Waseca | 2.40 | .53 | 1.96 | 1.47 | 3.93 | 3.09 | 7.12 | 6.49 | 2.18 | 1.95 | 1.33 | .58 |
| District | 1.40 | .38 | 1.02 | 1.35 | 3.67 | 4.23 | 5.97 | 4.43 | 2.00 | 1.67 | .87 | .34 |
| Normal | .77 | .78 | 1.89 | 2.80 | 3.48 | 4.01 | 4.08 | 3.79 | 3.24 | 2.26 | 1.50 | 1.04 |
| Southeast | | | | | | | | | | | | |
| Austin | M2.14 | M1.22 | M1.90 | M2.40 | 3.86 | 3.17 | 5.59 | 4.46 | 2.85 | M | M.52 | M.59 |
| Caledonia | M1.47 | M1.36 | M2.06 | M1.33 | 4.72 | 3.34 | M7.60 | 5.46 | 2.86 | 3.69 | M.45 | M.47 |
| Rochester | 1.63 | .92 | 1.63 | 2.32 | 3.05 | 2.59 | 9.00 | 3.23 | 1.85 | 2.71 | .26 | .38 |
| Winona | 1.07 | .89 | 2.51 | .90 | 3.86 | 4.44 | 6.41 | 7.09 | 3.77 | 1.97 | .57 | .31 |
| District | 1.39 | .74 | 1.73 | 1.45 | 3.30 | 4.00 | 8.45 | 5.19 | 3.02 | 2.14 | .49 | .45 |
| Normal | .96 | .86 | 1.96 | 2.91 | 3.72 | 4.03 | 4.19 | 3.98 | 3.77 | 2.49 | 1.75 | 1.23 |

T = Trace

M = Missing, Insufficient or partial data

SOURCE: NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, U.S. DEPARTMENT OF COMMERCE

CROPS: AVERAGE COMPLETION DATES FOR PLANTING AND HARVESTING, MINNESOTA

| Crop and Year | Date Planting Completed | | | | | Date Harvesting Completed | | | | |
|------------------------|-------------------------|--------|--------|--------|--------|---------------------------|--------|--------|--------|--------|
| | Percent | | | | | Percent | | | | |
| | 10 | 25 | 50 | 75 | 90 | 10 | 25 | 50 | 75 | 90 |
| Corn: | | | | | | | | | | |
| 1997 | Apr 28 | Apr 30 | May 03 | May 10 | May 17 | Oct 07 | Oct 13 | Oct 18 | Oct 25 | Nov 02 |
| 1996 | Apr 30 | May 04 | May 15 | May 24 | Jun 01 | Oct 09 | Oct 20 | Oct 27 | Nov 03 | Nov 12 |
| 1993-97 | Apr 28 | May 03 | May 12 | May 20 | May 28 | Oct 07 | Oct 16 | Oct 26 | Nov 04 | Nov 11 |
| Soybeans: | | | | | | | | | | |
| 1997 | May 07 | May 13 | May 17 | May 23 | May 31 | Sep 26 | Sep 30 | Oct 03 | Oct 07 | Oct 12 |
| 1996 | May 16 | May 23 | May 30 | Jun 05 | Jun 11 | Oct 02 | Oct 07 | Oct 10 | Oct 13 | Oct 18 |
| 1993-97 | May 11 | May 17 | May 23 | Jun 01 | Jun 12 | Sep 29 | Oct 04 | Oct 11 | Oct 17 | Oct 25 |
| Spring Wheat: | | | | | | | | | | |
| 1997 | May 04 | May 12 | May 20 | May 28 | Jun 01 | Aug 08 | Aug 19 | Aug 27 | Sep 01 | Sep 07 |
| 1996 | May 04 | May 16 | May 28 | Jun 02 | Jun 08 | Aug 05 | Aug 09 | Aug 28 | Sep 08 | Sep 18 |
| 1993-97 | Apr 25 | May 04 | May 14 | May 25 | Jun 01 | Aug 05 | Aug 14 | Aug 28 | Sep 07 | Sep 16 |
| Oats: | | | | | | | | | | |
| 1997 | Apr 23 | Apr 27 | May 02 | May 09 | May 26 | Aug 04 | Aug 07 | Aug 17 | Aug 27 | Aug 31 |
| 1996 | Apr 26 | Apr 30 | May 04 | May 13 | May 24 | Jul 30 | Aug 05 | Aug 10 | Aug 17 | Aug 24 |
| 1993-97 | Apr 22 | Apr 28 | May 04 | May 13 | May 22 | Jul 29 | Aug 06 | Aug 13 | Aug 24 | Aug 31 |
| Barley: | | | | | | | | | | |
| 1997 | May 05 | May 13 | May 21 | May 27 | May 31 | Aug 11 | Aug 17 | Aug 25 | Aug 30 | Sep 07 |
| 1996 | May 10 | May 17 | May 29 | Jun 04 | Jun 08 | Aug 06 | Aug 13 | Aug 24 | Sep 06 | Sep 15 |
| 1993-97 | Apr 26 | May 06 | May 16 | May 27 | Jun 01 | Aug 07 | Aug 14 | Aug 22 | Sep 01 | Sep 10 |
| Potatoes: | | | | | | | | | | |
| 1997 | Apr 27 | May 03 | May 25 | Jun 06 | Jun 12 | Sep 03 | Sep 14 | Sep 26 | Oct 05 | Oct 13 |
| 1996 | May 06 | May 11 | May 24 | Jun 09 | Jun 15 | Sep 01 | Sep 18 | Sep 29 | Oct 10 | Oct 13 |
| 1993-97 | Apr 29 | May 08 | May 18 | May 31 | Jun 11 | Sep 02 | Sep 15 | Sep 29 | Oct 10 | Oct 17 |
| Sunflowers: | | | | | | | | | | |
| 1997 | May 22 | May 27 | Jun 01 | Jun 05 | Jun 08 | Oct 06 | Oct 14 | Oct 20 | Oct 26 | Nov 01 |
| 1996 | May 25 | May 29 | Jun 04 | Jun 11 | Jun 15 | Sep 25 | Oct 05 | Oct 14 | Oct 23 | Oct 29 |
| 1993-97 | May 13 | May 19 | May 28 | Jun 03 | Jun 11 | Sep 28 | Oct 08 | Oct 17 | Oct 26 | Nov 03 |
| Alfalfa Hay: 1/ | | | | | | | | | | |
| 1997 | | | | | | Jun 06 | Jun 10 | Jun 15 | Jun 21 | Jun 29 |
| 1996 | | | | | | Jun 10 | Jun 12 | Jun 16 | Jun 25 | Jun 30 |
| 1993-97 | | | | | | Jun 03 | Jun 10 | Jun 15 | Jun 22 | Jul 01 |
| Winter Wheat: | | | | | | | | | | |
| 1997 | Aug 27 | Sep 02 | Sep 06 | Sep 13 | Sep 24 | Jul 30 | Aug 04 | Aug 08 | Aug 13 | Aug 17 |
| 1996 | Aug 25 | Sep 02 | Sep 06 | Sep 12 | Sep 20 | Jul 23 | Jul 30 | Aug 10 | Aug 16 | Aug 21 |
| 1993-97 | Aug 27 | Sep 03 | Sep 10 | Sep 21 | Sep 30 | Jul 26 | Aug 03 | Aug 10 | Aug 18 | Aug 28 |
| Rye: | | | | | | | | | | |
| 1997 | Aug 24 | Aug 31 | Sep 08 | Sep 16 | Sep 28 | Jul 26 | Aug 02 | Aug 09 | Aug 14 | Aug 19 |
| 1996 | Aug 27 | Sep 02 | Sep 10 | Sep 23 | Oct 02 | Jul 13 | Jul 20 | Jul 28 | Aug 10 | Aug 18 |
| 1993-97 | Aug 27 | Sep 02 | Sep 11 | Sep 23 | Oct 01 | Jul 19 | Jul 28 | Aug 07 | Aug 16 | Aug 25 |
| Sugarbeets: | | | | | | | | | | |
| 1997 | Apr 29 | May 03 | May 07 | May 11 | May 23 | Oct 04 | Oct 10 | Oct 16 | Oct 21 | Oct 25 |
| 1996 | May 04 | May 14 | May 20 | May 27 | Jun 01 | Sep 26 | Oct 02 | Oct 07 | Oct 11 | Oct 13 |
| 1993-97 | Apr 27 | May 02 | May 09 | May 18 | May 26 | Sep 26 | Oct 06 | Oct 12 | Oct 18 | Oct 24 |

1/ First Cutting.

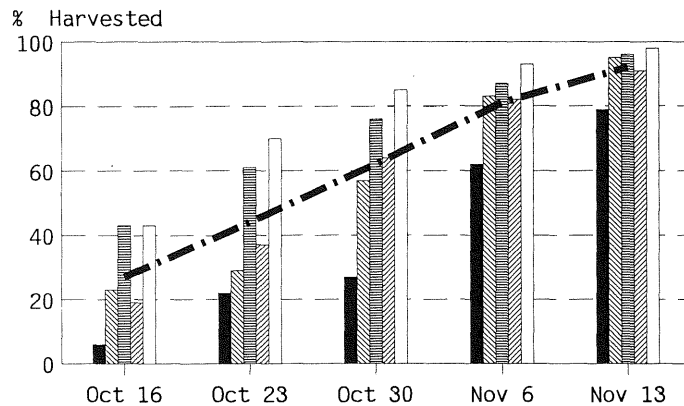
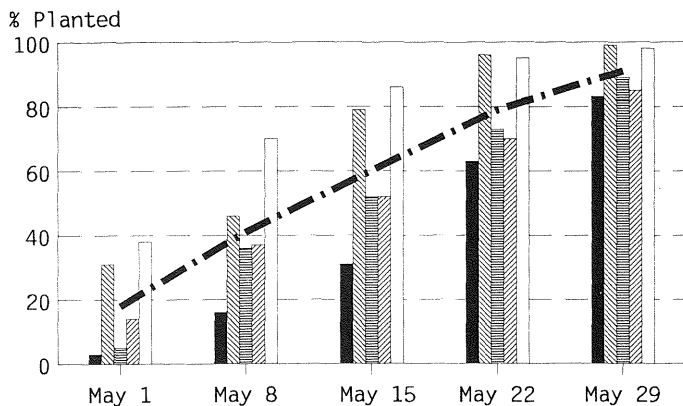
PLANTING & HARVESTING PROGRESS OF MINNESOTA'S MAJOR CROPS 1993-1997

PLANTING PROGRESS

HARVESTING PROGRESS

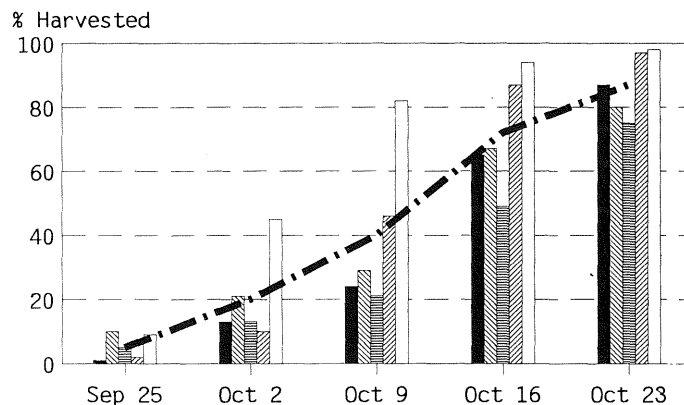
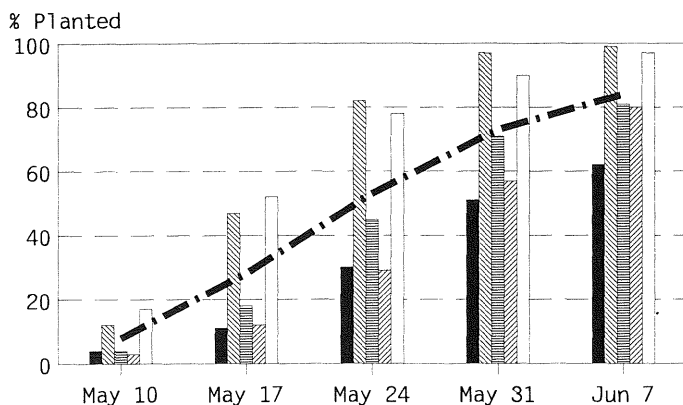
CORN

CORN



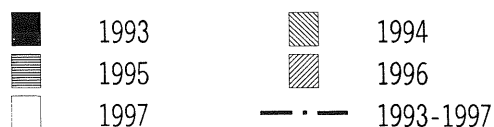
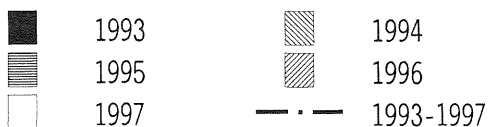
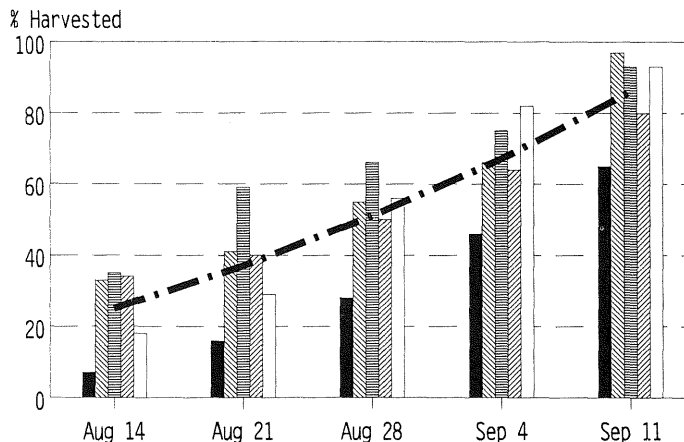
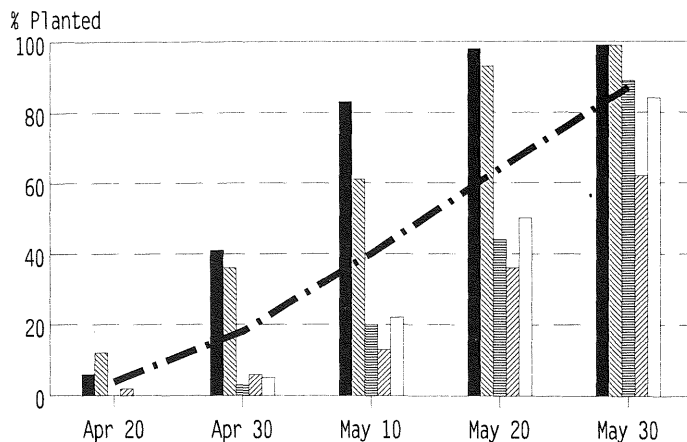
SOYBEANS

SOYBEANS



SPRING WHEAT

SPRING WHEAT





Section 2

Crops



1997 CROP SUMMARY

SOYBEAN CROP RECORD HIGH

The harsh winter of 96-97 left most of the state buried in snow and even ice until the beginning of April. This hurt alfalfa fields the most, as severe winterkill eventually caused many fields to be plowed under. By the end of April, warmer weather finally arrived, creating excellent field conditions for planting in the central and southeastern parts of Minnesota. Corn producers in some South Central counties got off to the best planting start this decade. The Northwest District, however, faced very different conditions as flood waters from the slowly receding snowbanks left many fields in the Red River Valley under water.

The beginning of May brought mostly dry but very cool weather to Minnesota. This helped many producers in most of the state to start planting. The extreme northern and western parts of Minnesota were still waiting for the flooding to stop. This cool and dry weather continued into the middle and latter parts of May. This weather benefited fieldwork as 92% of corn was planted by May 18, the earliest date in nine years that more than 90% had been planted. Oat, barley, wheat, and soybean planting were all still well behind the 5-year average. Crop development suffered due to this cool weather as emergence and growth were very slow.

Average temperatures finally reached Minnesota in June. Soon, most crops were near or over the 5-year average for planting and emergence. The dry weather from May continued until the middle of June and concerns began to grow. Many areas were several inches below normal precipitation for the month and over half the state reported lower than adequate topsoil moisture. Over half of first crop alfalfa had been cut thanks to the dryness, but all crops were below their normal growing/heading rates. Much needed thunderstorms brought heavy amounts of rain to northern and southern Minnesota, but the Central Districts were still dry.

The heavy rains continued into July, helping crops grow closer to the 5-year average. Below average temperatures and above average moisture in the middle of July slowed growth for all crops again. Much higher temperatures moved into the state near the end of July, but above-normal rains were still falling. Corn thrived in the hot and humid weather, but small grains were ripening well behind schedule. Minnesota experienced average temperatures and precipitation in the beginning of August. The small grain harvest was finally underway in southern Minnesota and about to begin in the northern areas. The cool weather trend continued into middle August slowing growth and affecting maturity of corn. Sunshine and much needed warmer temperatures made their way into Minnesota in late August and early September. Harvesting accelerated greatly due to the improved conditions.

By the middle of September, nearly all small grains had been harvested and just about all of the corn had reached dough stage. September concluded with some severe storms and frost in some areas. Nearly all soybeans had turned yellow, and the harvesting of corn and soybeans were well underway.

Producers enjoyed excellent field-drying and harvesting conditions due to above average temperatures and little rainfall in the beginning of October. Continued warm temperatures helped to conclude the soybean harvest and speed up the corn harvest. Cold weather finally arrived in Minnesota in late October, however, a severe frost did not occur until October 27. Early November brought the completion of the sugarbeet harvest and corn was nearly 96% harvested by the end of the month.

The following is a rundown on the production of Minnesota's major crops for 1997:

The Minnesota's record SOYBEAN production at 261.3 million bushels was up 11% from the previous record in 1995. Yield at 39 bushels per acre was up 1 bushel from 1996.

CORN production at 857.9 million bushels was down 1% from the 1996 corn crop. Yield at 133 bushels per acre was up 8 bushels from 1996.

SPRING WHEAT production was estimated at 76.8 million bushels, down 28.2 million bushels from 1996. Yield at 32 bushels per acre was down 10 bushels from 1996.

Minnesota's OAT crop, at 18.0 million bushels was up 19% from 1996. The yield at 58 bushels was up 2 bushels from a year earlier.

BARLEY production of 27.5 million bushels was down 17% from 1996. Yield at 51 bushels was down 13 bushels from 1996.

SUGARBEET production at 8.25 million tons was up 4% from 1996. Yield at 18.5 tons per acre was up 0.3 tons from 1996.

ALL SUNFLOWER production at 100.7 million pounds was down 45% from 1996. Yield at 1,071 pounds per acre was down 203 pounds from a year earlier.

ALFALFA HAY PRODUCTION at 4.9 million tons was up 6% from a year earlier. Yield at 3.3 tons per acre was up 0.2 ton from 1996. During 1997, new Alfalfa or Alfalfa Mixture seedings was estimated at 300,000 acres.

CROPS: RECORD HIGHS, MINNESOTA AND UNITED STATES

| Crop | Plantings | | Yield Per Acre | | Production | |
|-----------------------|-------------|------|----------------|-----------|----------------|------|
| | 1,000 Acres | Year | Unit | Year | 1,000 Units | Year |
| Corn | | | | | | |
| Minnesota | 7,700 | 1981 | 142.0 Bu. | 1994 | 915,900 Bu. | 1994 |
| United States | 113,024 | 1932 | 138.6 Bu. | 1994 | 10,102,735 Bu. | 1994 |
| Soybeans | | | | | | |
| Minnesota | 6,800 | 1997 | 40.5 Bu. | 1995 | 261,300 Bu. | 1997 |
| United States | 71,411 | 1979 | 41.4 Bu. | 1994 | 2,727,254 Bu. | 1997 |
| All Wheat | | | | | | |
| Minnesota | 1/ 6,375 | 1899 | 53.1 Bu. | 1985 | 142,426 Bu. | 1985 |
| United States | 88,251 | 1981 | 39.7 Bu. | 1997 | 2,785,357 Bu. | 1981 |
| Spring Wheat | | | | | | |
| Minnesota | 2/ | | 55.0 Bu. | 1985 | 137,500 Bu. | 1992 |
| United States | 2/ | | 41.8 Bu. | 1992 | 757,608 Bu. | 1992 |
| Barley | | | | | | |
| Minnesota | 2,380 | 1935 | 75.0 Bu. | 1992 | 70,950 Bu. | 1985 |
| United States | 19,686 | 1942 | 62.5 Bu. | 1992 | 608,532 Bu. | 1986 |
| Oats | | | | | | |
| Minnesota | 5,466 | 1945 | 70.0 Bu. | 1985,1992 | 242,640 Bu. | 1945 |
| United States | 47,494 | 1955 | 65.4 Bu. | 1992 | 1,523,851 Bu. | 1945 |
| All Hay | | | | | | |
| Minnesota | 3/ 4,721 | 1941 | 3.39 Tons | 1986 | 9,675 Tons | 1986 |
| United States | 3/ 77,639 | 1944 | 2.59 Tons | 1995 | 155,385 Tons | 1986 |
| All Potatoes | | | | | | |
| Minnesota | 3/ 486 | 1922 | 300 Cwt. | 1996 | 26,244 Cwt. | 1922 |
| United States | 3/ 3,901 | 1922 | 350 Cwt. | 1996 | 498,633 Cwt. | 1996 |
| Dry Beans | | | | | | |
| Minnesota | 190 | 1995 | 1,710 Lbs. | 1994 | 2,418 Cwt. | 1996 |
| United States | 2,599 | 1943 | 1,764 Lbs. | 1991 | 33,765 Cwt. | 1991 |
| Sugarbeets | | | | | | |
| Minnesota | 453 | 1997 | 20.6 Tons | 1994 | 8,467 Tons | 1994 |
| United States | 1,647 | 1969 | 22.4 Tons | 1981,1987 | 31,853 Tons | 1994 |
| All Sunflowers | | | | | | |
| Minnesota | 1,400 | 1979 | 1,781 Lbs. | 1991 | 1,870,620 Lbs. | 1979 |
| United States | 5,555 | 1979 | 1,469 Lbs. | 1987 | 7,296,110 Lbs. | 1979 |

1/ Normally spring wheat accounts for 90-95% of the all wheat estimate for Minnesota. Planted acreage estimates started in 1919 therefore, the record is based on harvested acreage estimates that started in 1866.

2/ Record not available, since planted acreage estimates started in 1924, and the record was set prior to 1924.

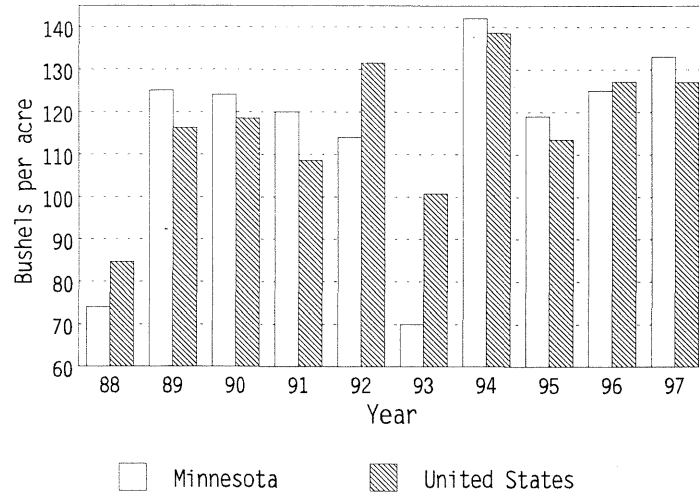
3/ Harvested acres.

CROPS: STOCKS AND PRICE RECORDS, MINNESOTA

| Crop | STOCKS | | PRICES | |
|------------------|------------------------------|------------------------------|---------------------------------------|--------------------------------------|
| | On-Farm | Off-Farm | High Monthly Average Price since 1983 | Low Monthly Average Price since 1983 |
| | 1,000 Bushels | | Dollars per Bushel | |
| Corn | 820,000 December 1, 1986 | 259,100 December 1, 1987 | \$3.95 August 1996 | \$1.29 October 1986 |
| Soybeans | 145,000 December 1, 1997 | 102,329 December 1, 1986 | \$8.38 July 1988 | \$4.39 October 1986 |
| All Wheat | 175,000 September 1, 1986 | 101,732 September 1, 1986 | \$5.87 June 1996 | \$2.23 August 1987 |
| Barley | 88,688 October 1, 1985 | 45,258 September 1, 1988 | \$3.18 June 1996 | \$1.10 August 1986 |
| Oats | 208,670 October 1, 1945 | 78,566 October 1, 1971 | \$2.93 July 1988 | \$0.82 August 1986 |

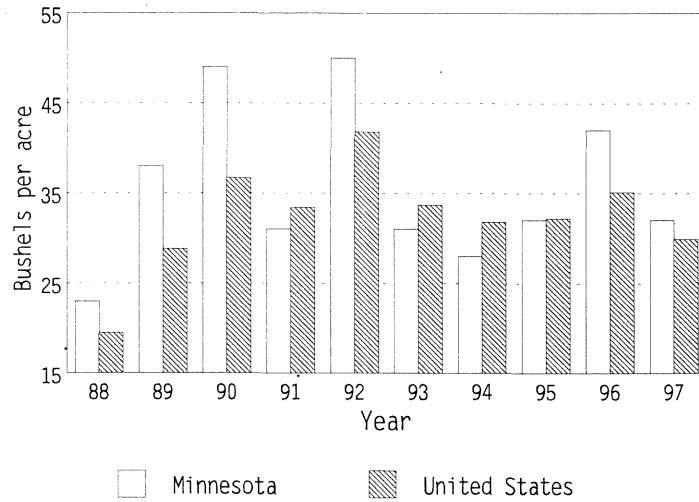
CORN YIELDS

Minnesota & United States



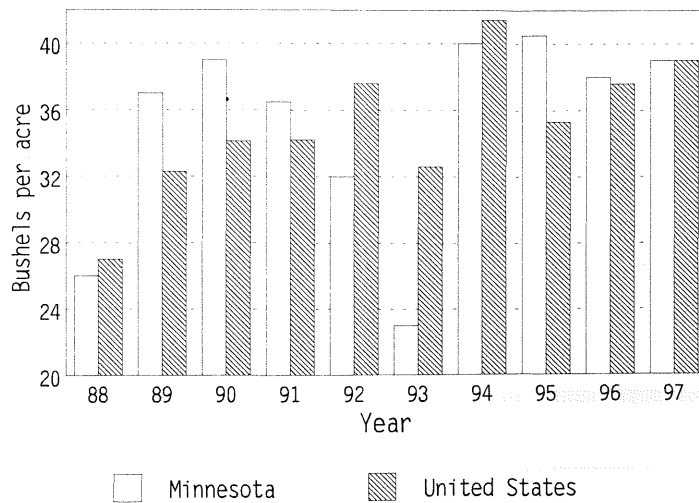
SPRING WHEAT YIELDS

Minnesota & United States



SOYBEAN YIELDS

Minnesota & United States



CROPS: ACREAGE, YIELD, PRODUCTION, PRICE, AND VALUE, MINNESOTA, 1993-97

| Crop Year | Acres Planted | Acres Harvested | Yield Per Harvested Acre | Production | Marketing Year Average Price 1/ | Farm Value Of Production |
|-----------|---------------|-----------------|--------------------------|------------|---------------------------------|--------------------------|
|-----------|---------------|-----------------|--------------------------|------------|---------------------------------|--------------------------|

Corn for Grain 2/

| | <u>1,000 Acres</u> | | <u>Bushels</u> | <u>1,000 Bushels</u> | <u>Dols. Per Bu.</u> | <u>1,000 Dols.</u> |
|------|--------------------|-------|----------------|----------------------|----------------------|--------------------|
| 1993 | 6,300 | 4,600 | 70.0 | 322,000 | 2.26 | 727,720 |
| 1994 | 7,000 | 6,450 | 142.0 | 915,900 | 2.23 | 2,042,457 |
| 1995 | 6,700 | 6,150 | 119.0 | 731,850 | 3.14 | 2,298,009 |
| 1996 | 7,500 | 6,950 | 125.0 | 868,750 | 2.47 | 2,145,813 |
| 1997 | 7,000 | 6,450 | 133.0 | 857,850 | 2.45 | 2,101,733 |

Corn for Silage

| | <u>1,000 Acres</u> | | <u>Tons</u> | <u>1,000 Tons</u> | | |
|------|--------------------|-----|-------------|-------------------|-------|-------|
| 1993 | ----- | 775 | 8.5 | 6,588 | ----- | ----- |
| 1994 | ----- | 450 | 13.0 | 5,850 | ----- | ----- |
| 1995 | ----- | 450 | 12.0 | 5,400 | ----- | ----- |
| 1996 | ----- | 475 | 13.0 | 6,175 | ----- | ----- |
| 1997 | ----- | 450 | 14.5 | 6,525 | ----- | ----- |

Soybeans

| | <u>1,000 Acres</u> | | <u>Bushels</u> | <u>1,000 Bushels</u> | <u>Dols. Per Bu.</u> | <u>1,000 Dols.</u> |
|------|--------------------|-------|----------------|----------------------|----------------------|--------------------|
| 1993 | 5,400 | 5,000 | 23.0 | 115,000 | 6.18 | 710,700 |
| 1994 | 5,700 | 5,600 | 40.0 | 224,000 | 5.37 | 1,202,880 |
| 1995 | 5,900 | 5,800 | 40.5 | 234,900 | 6.59 | 1,547,991 |
| 1996 | 5,950 | 5,900 | 38.0 | 224,200 | 7.26 | 1,627,692 |
| 1997 | 6,800 | 6,700 | 39.0 | 261,300 | 6.30 | 1,646,190 |

Oats

| | <u>1,000 Acres</u> | | <u>Bushels</u> | <u>1,000 Bushels</u> | <u>Dols. Per Bu.</u> | <u>1,000 Dols.</u> |
|------|--------------------|-----|----------------|----------------------|----------------------|--------------------|
| 1993 | 850 | 475 | 50.0 | 23,750 | 1.32 | 31,350 |
| 1994 | 575 | 450 | 55.0 | 24,750 | 1.15 | 28,463 |
| 1995 | 625 | 375 | 48.0 | 18,000 | 1.59 | 28,620 |
| 1996 | 320 | 270 | 56.0 | 15,120 | 1.84 | 27,821 |
| 1997 | 410 | 310 | 58.0 | 17,980 | 1.50 | 26,970 |

Barley

| | <u>1,000 Acres</u> | | <u>Bushels</u> | <u>1,000 Bushels</u> | <u>Dols. Per Bu.</u> | <u>1,000 Dols.</u> |
|------|--------------------|-----|----------------|----------------------|----------------------|--------------------|
| 1993 | 725 | 650 | 58.0 | 37,700 | 1.76 | 66,352 |
| 1994 | 650 | 600 | 50.0 | 30,000 | 1.81 | 54,300 |
| 1995 | 610 | 580 | 50.0 | 29,000 | 2.55 | 73,950 |
| 1996 | 550 | 520 | 64.0 | 33,280 | 2.38 | 79,206 |
| 1997 | 580 | 540 | 51.0 | 27,540 | 1.95 | 53,703 |

Rye

| | <u>1,000 Acres</u> | | <u>Bushels</u> | <u>1,000 Bushels</u> | <u>Dols. Per Bu.</u> | <u>1,000 Dols.</u> |
|------|--------------------|----|----------------|----------------------|----------------------|--------------------|
| 1993 | 30 | 23 | 29.0 | 667 | 2.22 | 1,481 |
| 1994 | 40 | 30 | 27.0 | 810 | 2.15 | 1,742 |
| 1995 | 30 | 21 | 29.0 | 609 | 2.75 | 1,675 |
| 1996 | 25 | 20 | 24.0 | 480 | 3.10 | 1,488 |
| 1997 | 25 | 21 | 26.0 | 546 | 3.10 | 1,693 |

1/ Marketing year average prices received by farmers are based on monthly prices weighted by monthly marketings. Marketing year periods, by crop, are October-September for corn; September-August for soybeans; and July-June for oats, barley, and rye. Prices do not include allowance for CCC loans outstanding, purchases by the government, or deficiency payments. Price for latest year shown is preliminary. It includes an allowance for marketings from December through the remainder of the marketing year.

2/ Acreage planted to corn is for "all purposes."

--continued

CROPS: ACREAGE, YIELD, PRODUCTION, PRICE, AND VALUE, MINNESOTA, 1993-97 (continued)

| Crop Year | Acres Planted | Acres Harvested | Yield Per Harvested Acre | Production | Marketing Year Average Price 1/ | Farm Value Of Production |
|--|--------------------|-----------------|--------------------------|----------------------|---------------------------------|--------------------------|
| All Wheat | | | | | | |
| | <u>1,000 Acres</u> | | <u>Bushels</u> | <u>1,000 Bushels</u> | <u>Dols. Per Bu.</u> | <u>1,000 Dols.</u> |
| 1993 | 2,755 | 2,298 | 31.0 | 71,190 | 3.31 | 234,567 |
| 1994 | 2,653 | 2,548 | 28.0 | 71,348 | 3.33 | 237,594 |
| 1995 | 2,298 | 2,245 | 32.0 | 71,849 | 4.71 | 338,652 |
| 1996 | 2,595 | 2,542 | 41.9 | 106,582 | 4.25 | 453,024 |
| 1997 | 2,520 | 2,465 | 32.0 | 78,890 | 3.65 | 283,675 |
| Spring Wheat (Other than Durum) | | | | | | |
| | <u>1,000 Acres</u> | | <u>Bushels</u> | <u>1,000 Bushels</u> | <u>Dols. Per Bu.</u> | <u>1,000 Dols.</u> |
| 1993 | 2,700 | 2,250 | 31.0 | 69,750 | 3.30 | 230,175 |
| 1994 | 2,600 | 2,500 | 28.0 | 70,000 | 3.33 | 233,100 |
| 1995 | 2,250 | 2,200 | 32.0 | 70,400 | 4.70 | 330,880 |
| 1996 | 2,550 | 2,500 | 42.0 | 105,000 | 4.25 | 446,250 |
| 1997 | 2,450 | 2,400 | 32.0 | 76,800 | 3.60 | 276,480 |
| Durum Wheat | | | | | | |
| | <u>1,000 Acres</u> | | <u>Bushels</u> | <u>1,000 Bushels</u> | <u>Dols. Per Bu.</u> | <u>1,000 Dols.</u> |
| 1993 | 10 | 8 | 30.0 | 240 | 4.50 | 1,080 |
| 1994 | 13 | 11 | 25.0 | 275 | 3.62 | 996 |
| 1995 | 13 | 12 | 30.0 | 360 | 4.86 | 1,750 |
| 1996 | 10 | 10 | 43.0 | 430 | 4.34 | 1,866 |
| 1997 | 5 | 5 | 34.0 | 170 | 5.05 | 859 |
| Winter Wheat | | | | | | |
| | <u>1,000 Acres</u> | | <u>Bushels</u> | <u>1,000 Bushels</u> | <u>Dols. Per Bu.</u> | <u>1,000 Dols.</u> |
| 1993 | 45 | 40 | 30.0 | 1,200 | 2.76 | 3,312 |
| 1994 | 40 | 37 | 29.0 | 1,073 | 3.26 | 3,498 |
| 1995 | 35 | 33 | 33.0 | 1,089 | 5.53 | 6,022 |
| 1996 | 35 | 32 | 36.0 | 1,152 | 4.26 | 4,908 |
| 1997 | 65 | 60 | 32.0 | 1,920 | 3.30 | 6,336 |
| Flaxseed | | | | | | |
| | <u>1,000 Acres</u> | | <u>Bushels</u> | <u>1,000 Bushels</u> | <u>Dols. Per Bu.</u> | <u>1,000 Dols.</u> |
| 1993 | 15 | 10 | 17.0 | 170 | 4.44 | 755 |
| 1994 | 10 | 9 | 14.0 | 126 | 4.92 | 620 |
| 1995 | 10 | 9 | 19.0 | 171 | 5.10 | 872 |
| 1996 | 4 | 4 | 15.0 | 60 | 6.40 | 384 |
| 1997 | 6 | 6 | 14.0 | 84 | 5.70 | 479 |
| Sugarbeets | | | | | | |
| | <u>1,000 Acres</u> | | <u>Tons</u> | <u>1,000 Tons</u> | <u>Dols. Per Ton 2/</u> | <u>1,000 Dols. 2/</u> |
| 1993 | 390 | 379 | 14.1 | 5,344 | 40.90 | 218,570 |
| 1994 | 415 | 411 | 20.6 | 8,467 | 42.30 | 358,154 |
| 1995 | 427 | 420 | 17.7 | 7,434 | 38.00 | 282,492 |
| 1996 | 441 | 438 | 18.2 | 7,971 | 47.10 | 375,434 |
| 1997 | 453 | 446 | 18.5 | 8,251 | NA | NA |

1/ Marketing year average prices received by farmers are based on monthly prices weighted by monthly marketings. The marketing year period is July-June for wheat and flaxseed. The sugarbeet price relates to prices received by producers during the harvest period. Prices do not include allowance for CCC loans outstanding, purchases by the government or deficiency payments. Price for latest year shown is preliminary. It includes an allowance for marketings from December through the remainder of the marketing year.

2/ Excludes Sugar Act payments.

NA = Not Available.

--continued

CROPS: ACREAGE, YIELD, PRODUCTION, PRICE, AND VALUE, MINNESOTA, 1993-97 (continued)

| Crop Year | Acres Planted | Acres Harvested | Yield Per Harvested Acre | Production | Marketing Year Average Price 1/ | Farm Value Of Production |
|---------------------------|--------------------|-----------------|--------------------------|-------------------|---------------------------------|--------------------------|
| All Sunflowers | | | | | | |
| | <u>1,000 Acres</u> | | <u>Pounds</u> | <u>1,000 Lbs.</u> | <u>Dols. Per Cwt.</u> | <u>1,000 Dols.</u> |
| 1993 | 390 | 340 | 1,124 | 382,000 | 14.10 | 52,638 |
| 1994 | 500 | 475 | 1,263 | 600,000 | 11.60 | 67,500 |
| 1995 | 440 | 433 | 1,052 | 455,430 | 11.80 | 52,496 |
| 1996 | 150 | 145 | 1,274 | 184,660 | 13.10 | 22,781 |
| 1997 | 100 | 94 | 1,071 | 100,700 | 12.40 | 11,673 |
| Oil Sunflowers | | | | | | |
| | <u>1,000 Acres</u> | | <u>Pounds</u> | <u>1,000 Lbs.</u> | <u>Dols. Per Cwt.</u> | <u>1,000 Dols.</u> |
| 1993 | 300 | 260 | 1,100 | 286,000 | 12.90 | 36,894 |
| 1994 | 390 | 375 | 1,300 | 487,500 | 10.80 | 52,650 |
| 1995 | 360 | 355 | 1,050 | 372,750 | 11.00 | 41,003 |
| 1996 | 100 | 97 | 1,300 | 126,100 | 11.10 | 13,997 |
| 1997 | 70 | 67 | 1,100 | 73,700 | 10.60 | 7,812 |
| Non-oil Sunflowers | | | | | | |
| | <u>1,000 Acres</u> | | <u>Pounds</u> | <u>1,000 Lbs.</u> | <u>Dols. Per Cwt.</u> | <u>1,000 Dols.</u> |
| 1993 | 90 | 80 | 1,200 | 96,000 | 16.40 | 15,744 |
| 1994 | 110 | 100 | 1,125 | 112,500 | 13.20 | 14,850 |
| 1995 | 80 | 78 | 1,060 | 82,680 | 13.90 | 11,493 |
| 1996 | 50 | 48 | 1,220 | 58,560 | 15.00 | 8,784 |
| 1997 | 30 | 27 | 1,000 | 27,000 | 14.30 | 3,861 |
| All Hay | | | | | | |
| | <u>1,000 Acres</u> | | <u>Tons</u> | <u>1,000 Tons</u> | <u>Dols. Per Ton</u> | <u>1,000 Dols.</u> |
| 1993 | ----- | 2,250 | 2.65 | 5,970 | 95.00 | 553,590 |
| 1994 | ----- | 2,300 | 3.27 | 7,530 | 70.50 | 532,030 |
| 1995 | ----- | 2,275 | 3.05 | 6,943 | 72.50 | 494,497 |
| 1996 | ----- | 2,225 | 2.70 | 5,998 | 81.00 | 526,646 |
| 1997 | ----- | 2,375 | 2.73 | 6,488 | 91.50 | 600,208 |
| Alfalfa Hay | | | | | | |
| | <u>1,000 Acres</u> | | <u>Tons</u> | <u>1,000 Tons</u> | <u>Dols. Per Ton</u> | <u>1,000 Dols.</u> |
| 1993 | ----- | 1,600 | 3.00 | 4,800 | 99.00 | 475,200 |
| 1994 | ----- | 1,600 | 3.70 | 5,920 | 76.00 | 449,920 |
| 1995 | ----- | 1,425 | 3.50 | 4,988 | 81.50 | 406,522 |
| 1996 | ----- | 1,475 | 3.10 | 4,573 | 96.00 | 439,008 |
| 1997 | ----- | 1,475 | 3.30 | 4,868 | 101.00 | 491,668 |
| All Other Hay | | | | | | |
| | <u>1,000 Acres</u> | | <u>Tons</u> | <u>1,000 Tons</u> | <u>Dols. Per Ton</u> | <u>1,000 Dols.</u> |
| 1993 | ----- | 650 | 1.80 | 1,170 | 67.00 | 78,390 |
| 1994 | ----- | 700 | 2.30 | 1,610 | 51.00 | 82,110 |
| 1995 | ----- | 850 | 2.30 | 1,955 | 45.00 | 87,975 |
| 1996 | ----- | 750 | 1.90 | 1,425 | 61.50 | 87,638 |
| 1997 | ----- | 900 | 1.80 | 1,620 | 67.00 | 108,540 |

1/ Marketing year average prices received by farmers are based on monthly prices weighted by monthly marketings. Marketing years are September-August for sunflowers and June-May for hay. Price for latest year shown is preliminary. It includes an allowance for marketings from December through the remainder of the marketing year.

--continued

CROPS: ACREAGE, YIELD, PRODUCTION, PRICE, AND VALUE, MINNESOTA, 1993-97 (continued)

| Crop Year | Acres Planted | Acres Harvested | Yield Per Harvested Acre | Production | Marketing Year Average Price 1/ | Farm Value Of Production |
|------------------------|------------------|--------------------|-----------------------------|-------------------|------------------------------------|-----------------------------|
| All Dry Edible Beans | | | | | | |
| | <u>Acres</u> | | <u>Pounds</u> | <u>1,000 Cwt.</u> | <u>Dols. Per Cwt.</u> | <u>1,000 Dols.</u> |
| 1993 | 110,000 | 88,000 | 950 | 836 | 23.80 | 19,897 |
| 1994 | 135,000 | 121,600 | 1,710 | 2,079 | 21.50 | 44,699 |
| 1995 | 190,000 | 150,000 | 1,370 | 2,055 | 18.90 | 38,840 |
| 1996 | 160,000 | 155,000 | 1,560 | 2,418 | 23.00 | 55,614 |
| 1997 | 170,000 | 155,000 | 1,550 | 2,403 | 17.50 | 42,053 |
| Navy | | | | | | |
| | <u>Acres</u> | | <u>Pounds</u> | <u>1,000 Cwt.</u> | | |
| 1993 | 36,000 | 26,400 | 820 | 217 | ----- | ----- |
| 1994 | 45,200 | 41,100 | 1,650 | 678 | ----- | ----- |
| 1995 | 76,500 | 61,200 | 1,380 | 845 | ----- | ----- |
| 1996 | 50,000 | 48,900 | 1,600 | 783 | ----- | ----- |
| 1997 | 57,000 | 54,000 | 1,650 | 891 | ----- | ----- |
| Pinto | | | | | | |
| | <u>Acres</u> | | <u>Pounds</u> | <u>1,000 Cwt.</u> | | |
| 1993 | 27,000 | 22,800 | 860 | 196 | ----- | ----- |
| 1994 | 32,000 | 24,600 | 1,200 | 295 | ----- | ----- |
| 1995 | 46,900 | 35,000 | 1,240 | 433 | ----- | ----- |
| 1996 | 45,000 | 44,000 | 1,300 | 573 | ----- | ----- |
| 1997 | 40,000 | 36,000 | 1,350 | 485 | ----- | ----- |
| Light Red Kidney | | | | | | |
| | <u>Acres</u> | | <u>Pounds</u> | <u>1,000 Cwt.</u> | | |
| 1993 | 7,000 | 6,400 | 1,140 | 73 | ----- | ----- |
| 1994 | 9,600 | 9,400 | 2,180 | 205 | ----- | ----- |
| 1995 | 7,000 | 6,600 | 1,520 | 100 | ----- | ----- |
| 1996 | 10,000 | 9,400 | 1,900 | 179 | ----- | ----- |
| 1997 | 10,000 | 9,000 | 1,720 | 155 | ----- | ----- |
| Dark Red Kidney | | | | | | |
| | <u>Acres</u> | | <u>Pounds</u> | <u>1,000 Cwt.</u> | | |
| 1993 | 31,000 | 25,300 | 1,120 | 283 | ----- | ----- |
| 1994 | 35,600 | 34,600 | 2,000 | 692 | ----- | ----- |
| 1995 | 35,300 | 27,500 | 1,450 | 399 | ----- | ----- |
| 1996 | 37,000 | 36,000 | 1,750 | 630 | ----- | ----- |
| 1997 | 35,000 | 32,000 | 1,590 | 510 | ----- | ----- |
| Other Dry Edible Beans | | | | | | |
| | <u>Acres</u> | | <u>Pounds</u> | <u>1,000 Cwt.</u> | | |
| 1993 | 9,000 | 7,100 | 940 | 67 | ----- | ----- |
| 1994 | 12,600 | 11,900 | 1,760 | 209 | ----- | ----- |
| 1995 | 24,300 | 19,700 | 1,410 | 278 | ----- | ----- |
| 1996 | 18,000 | 16,700 | 1,510 | 253 | ----- | ----- |
| 1997 | 28,000 | 24,000 | 1,500 | 362 | ----- | ----- |

1/ Marketing year average price received by farmers is based on monthly prices weighted by monthly marketings. Market year is September-August for dry beans. Price for latest year shown is preliminary. It includes an allowance for marketings from December through the remainder of the marketing year.

--continued

CROPS: ACREAGE, YIELD, PRODUCTION, PRICE, AND VALUE, MINNESOTA, 1993-97 (continued)

| Crop Year | Acreage Planted | Acreage Harvested | Yield Per Harvested Acre | Production | Price Per Unit 1/ | Farm Value Of Production |
|---------------------------|-----------------|-------------------|--------------------------|------------|-------------------|-----------------------------------|
| Sweet Corn for Processing | | | | | | |
| | Acres | | Tons | Tons | Dols. Per Ton | 1,000 Dols. |
| 1993 | 121,700 | 109,300 | 3.85 | 420,810 | 67.00 | 28,194 |
| 1994 | 143,000 | 131,300 | 6.58 | 863,950 | 61.10 | 52,787 |
| 1995 | 133,900 | 116,400 | 5.77 | 671,630 | 72.00 | 48,357 |
| 1996 | 127,500 | 120,100 | 5.99 | 719,400 | 78.00 | 56,113 |
| 1997 | 128,600 | 127,200 | 6.40 | 814,080 | 73.00 | 59,428 |
| Green Peas for Processing | | | | | | |
| | Acres | | Tons | Tons | Dols. Per Ton | 1,000 Dols. |
| 1993 | 54,000 | 44,800 | 1.06 | 47,490 | 269.00 | 12,775 |
| 1994 | 84,900 | 76,200 | 1.53 | 116,590 | 262.00 | 30,547 |
| 1995 | 92,900 | 85,400 | 1.26 | 107,600 | 305.00 | 32,818 |
| 1996 | 82,900 | 77,500 | 1.59 | 123,230 | 315.00 | 38,817 |
| 1997 | 90,000 | 75,200 | 1.48 | 111,300 | 364.00 | 40,513 |
| Onions | | | | | | |
| | Acres | | Cwt. | 1,000 Cwt. | Dols. Per Cwt. | 1,000 Dols. 2/ |
| 1993 | 920 | 110 | 200 | 22 | 10.50 | 210 |
| 1994 | 860 | 760 | 410 | 312 | 5.70 | 1,596 |
| 1995 | 680 | 520 | 240 | 125 | 9.09 | 1,109 |
| 1996 | 530 | 520 | 220 | 114 | 8.00 | 888 |
| 1997 | 600 | 550 | 300 | 165 | 8.00 | 1,296 |
| Carrots for Fresh Market | | | | | | |
| | Acres | | Cwt. | 1,000 Cwt. | Dols. Per Cwt. | 1,000 Dols. |
| 1993 | 500 | 460 | 145 | 67 | 10.00 | 670 |
| 1994 | 620 | 620 | 275 | 170 | 14.90 | 2,533 |
| 1995 | 500 | 400 | 210 | 84 | 16.60 | 1,394 |
| 1996 | 900 | 540 | 230 | 124 | 12.50 | 1,550 |
| 1997 | 500 | 400 | 400 | 160 | 8.60 | 1,376 |
| Carrots for Processing | | | | | | |
| | Acres | | Tons | Tons | Dols. Per Ton | 1,000 Dols. |
| 1993 | 1,000 | 940 | 12.89 | 12,120 | 63.80 | 773 |
| 1994 | 1,300 | 1,300 | 16.11 | 20,940 | 60.50 | 1,267 |
| 1995 | 1,300 | 1,100 | 14.81 | 16,290 | 74.00 | 1,205 |
| 1996 | 1,100 | 860 | 17.27 | 14,850 | 106.00 | 1,574 |
| 1997 | 1,100 | 1,000 | 20.43 | 20,430 | 81.00 | 1,655 |
| Crop Year | Acreage Planted | Acreage Harvested | Utilized Production | | Price Per Unit | Farm Value of Utilized Production |
| Commercial Apples | | | | | | |
| | | | Mil. Lbs. | | Cents Per Lb. | 1,000 Dols. |
| 1993 | ----- | ----- | 19.7 | | 32.9 | 6,486 |
| 1994 | ----- | ----- | 20.8 | | 33.2 | 6,902 |
| 1995 | ----- | ----- | 18.8 | | 40.3 | 7,580 |
| 1996 | ----- | ----- | 18.8 | | 46.0 | 8,644 |
| 1997 | ----- | ----- | 17.5 | | 44.3 | 7,757 |

1/ Processing and Fresh market commodity prices are available only at harvest. Price for latest year shown is preliminary.

2/ Value computed on marketed production.

--continued

CROPS: ACREAGE, YIELD, PRODUCTION, PRICE AND VALUE, MINNESOTA, 1993-97 (continued)

| Crop Year | Acres Planted | Acres Harvested | Yield Per Harvested Acre | Production | Marketing Year Average Price 1/ | Farm Value Of Production |
|--------------|------------------|--------------------|-----------------------------|-------------------|------------------------------------|-----------------------------|
| All Potatoes | | | | | | |
| | <u>Acres</u> | | <u>Cwt.</u> | <u>1,000 Cwt.</u> | <u>Dols. Per Cwt.</u> | <u>1,000 Dols.</u> |
| 1993 | 77,200 | 62,100 | 238 | 14,780 | 5.65 | 83,614 |
| 1994 | 81,700 | 74,600 | 269 | 20,035 | 4.90 | 98,334 |
| 1995 | 83,000 | 77,000 | 270 | 20,790 | 5.25 | 109,148 |
| 1996 | 85,000 | 82,000 | 300 | 24,600 | 4.65 | 114,390 |
| 1997 | 77,000 | 73,000 | 280 | 20,440 | 5.30 | 108,332 |

1/ Marketing year average prices received by farmers are based on monthly prices weighted by monthly marketings, July-June. Price for latest year shown is preliminary. It includes an allowance for marketings from December through the remainder of the marketing year.

POTATO STOCKS: ALL POSITIONS, MINNESOTA, 1993-98

| Marketing Year | Dec 1 | Jan 1 | Feb 1 | Mar 1 | Apr 1 | May 1 |
|----------------|-------------------|--------|--------|--------|-------|-------|
| | <u>1,000 Cwt.</u> | | | | | |
| 1993/94 | 8,600 | 7,300 | 6,100 | 5,000 | 3,700 | 2,300 |
| 1994/95 | 12,500 | 10,800 | 9,400 | 8,000 | 6,000 | 4,100 |
| 1995/96 | 13,500 | 11,700 | 10,200 | 8,700 | 6,800 | 4,500 |
| 1996/97 | 16,500 | 14,900 | 13,200 | 11,000 | 8,500 | 5,500 |
| 1997/98 | 13,500 | 12,000 | 10,500 | 8,600 | 6,800 | 4,500 |

GRAIN STORAGE: CAPACITY BY STORAGE POSITION ON DECEMBER 1, MINNESOTA, 1991-97

| Year | Off Farm 1/ | | On Farm Capacity | Total Capacity |
|------|---------------|----------|----------------------|-------------------|
| | Facilities | Capacity | | |
| | <u>Number</u> | | <u>1,000 Bushels</u> | |
| 1991 | 763 | 541,070 | 1,350,000 | 1,891,070 |
| 1992 | 756 | 499,240 | 1,350,000 | 1,849,240 |
| 1993 | 716 | 489,860 | 1,325,000 | 1,814,860 |
| 1994 | 563 | 484,160 | 1,300,000 | 1,784,160 |
| 1995 | 545 | 488,500 | 1,250,000 | 1,738,500 |
| 1996 | 540 | 482,300 | 1,200,000 | 1,682,300 |
| 1997 | 535 | 482,890 | 1,200,000 | 1,682,890 |

1/ Includes mills, elevators, warehouses, terminals, and processors.

OBJECTIVE YIELD: CORN, SOYBEANS, AND SPRING WHEAT, MINNESOTA, 1993-97

The Minnesota Agricultural Statistics Service conducts objective yield surveys in the state for corn, soybeans, and spring wheat. Randomly selected plots in fields across the state are visited monthly from August through harvest to obtain specific counts and measurements. Data in these tables are rounded actual counts from these surveys and are not official estimates of the Agricultural Statistics Board, but are intended to show trends in production practices.

CORN FOR GRAIN: PLANT POPULATION PER ACRE 1/

| Month | 1993 | 1994 | 1995 | 1996 | 1997 |
|-----------|-------------------------|--------|--------|--------|--------|
| | <u>Number of Plants</u> | | | | |
| September | 25,000 | 26,100 | 26,400 | 26,500 | 26,300 |
| November | 25,100 | 26,000 | 26,350 | 26,600 | 26,600 |

CORN FOR GRAIN: PERCENTAGE DISTRIBUTIONS BY ROW WIDTH AND AVERAGE ROW WIDTH

| Year | Number of Samples | Row Width (Inches) 2/ | | | | | Average Row Width |
|------|-------------------|-------------------------|-----------|-----------|-----------|----------------|-------------------|
| | | 20.6-30.5 3/ | 30.6-34.5 | 34.6-36.5 | 36.6-38.5 | 38.6 & Greater | |
| | <u>Number</u> | <u>Percent of Plots</u> | | | | | <u>Inches</u> |
| 1993 | 158 | 62.0 | 13.9 | 5.1 | 12.7 | 6.3 | 32.0 |
| 1994 | 168 | 61.3 | 15.5 | 7.7 | 9.5 | 6.0 | 31.7 |
| 1995 | 163 | 64.4 | 12.2 | 6.8 | 14.1 | 2.5 | 31.3 |
| 1996 | 165 | 60.6 | 13.9 | 13.9 | 7.9 | 3.7 | 31.8 |
| 1997 | 167 | 58.6 | 17.4 | 10.2 | 11.4 | 1.8 | 31.4 |

SOYBEANS: PODS WITH BEANS PER 18 SQUARE FEET 1/

| Month | 1993 | 1994 | 1995 | 1996 | 1997 |
|-----------|-----------------------|-------|-------|-------|-------|
| | <u>Number of Pods</u> | | | | |
| September | 1,037 | 1,678 | 1,613 | 1,543 | 1,585 |
| November | 1,106 | 1,496 | 1,501 | 1,487 | 1,506 |
| Final | 1,105 | 1,496 | 1,501 | 1,487 | 1,506 |

SOYBEANS: PERCENTAGE DISTRIBUTIONS BY ROW WIDTH AND AVERAGE ROW WIDTH

| Year | Number of Samples | Row Width (Inches) 2/ | | | | | Average Row Width |
|------|-------------------|-------------------------|-----------|-----------|-----------|----------------|-------------------|
| | | 10.0 & Less 4/ | 10.1-18.5 | 18.6-28.5 | 28.6-34.5 | 34.6 & Greater | |
| | <u>Number</u> | <u>Percent of Plots</u> | | | | | <u>Inches</u> |
| 1993 | 103 | 29.6 | 14.6 | 1.9 | 49.0 | 4.9 | 21.3 |
| 1994 | 101 | 36.2 | 12.4 | 6.9 | 35.6 | 8.9 | 20.0 |
| 1995 | 98 | 25.0 | 14.3 | 9.7 | 46.4 | 4.6 | 21.6 |
| 1996 | 101 | 30.8 | 11.9 | 10.5 | 38.8 | 8.0 | 21.0 |
| 1997 | 97 | 27.8 | 28.9 | 5.1 | 36.1 | 2.1 | 18.8 |

SPRING WHEAT: HEADS PER SQUARE FOOT 5/

| Month | 1993 | 1994 | 1995 | 1996 | 1997 |
|-----------|------------------------|------|------|------|------|
| | <u>Number of Heads</u> | | | | |
| September | 44.3 | 44.3 | 45.6 | 41.6 | 47.7 |
| Final | 45.3 | 43.9 | 45.6 | 41.6 | 47.8 |

1/ Based on stalk counts in plots selected for objective yield samples.

2/ Spacings based on row measurements in sample plots selected for objective yield survey.

3/ For 1993-1995 this column of data contains information for 30.5 inches or less.

4/ Broadcast soybeans included as 10.0 inches and less but excluded in computation of average width.

5/ Based on the number of heads counted in plots selected for the objective yield survey.

FLOWERS AND FOLIAGE PLANTS - 1997

The 1997 wholesale value of sales by commercial flower and foliage producers in Minnesota is estimated at \$61,576,000 compared with \$54,322,000 in 1996. These values were obtained from the wholesale value of sales as reported by growers with \$100,000 or more in sales of floriculture crops plus a calculated wholesale value of sales for growers with sales below \$100,000. A commercial operation is defined as having \$10,000 or more in annual gross sales of floriculture crops.

The total wholesale value of floriculture crops grown by operations exceeding the \$100,000 sales level reached \$55,921,000 in 1997, a 16% increase over the \$48,082,000 for 1996. Of the total wholesale value, cut flowers totaled \$6,854,000 in 1997, up 4% from the previous year. The wholesale value of potted flowering plants was \$12,741,000, up 11% from \$11,514,000 in 1996. Sales of foliage plants for indoor and patio use totaled \$1,338,000, up 10% from the previous year. Total bedding and garden plant sales were up 22% to \$34,988,000.

FLORICULTURE: FLOWERING, BEDDING, AND FOLIAGE PLANTS, MINNESOTA, 1996-97 1/

| Item | Producers | | Total Quantity Sold | | | | |
|---|-----------|------|---------------------|-------------|-------|---------------|---------------------------|
| | 1996 | 1997 | Units | 1996 | 1997 | Intended 1998 | 1998 As A Percent Of 1997 |
| | Number | | | 1,000 Units | | Percent | |
| <u>Potted Flowering Plants:</u> | | | | | | | |
| Chrysanthemums | 21 | 19 | Pots | 336 | 316 | 304 | 96 |
| Cyclamens | 21 | 21 | Pots | 159 | 177 | 175 | 99 |
| Finished Florist Azaleas | 21 | 20 | Pots | 235 | 211 | 195 | 92 |
| Kalanchoes | 7 | 7 | Pots | 51 | 92 | 102 | 111 |
| Easter Lilies | 32 | 30 | Pots | 277 | 315 | 314 | 100 |
| Poinsettias | 53 | 53 | Pots | 1,023 | 1,089 | 1,117 | 103 |
| Other Flowering Plants | 27 | 23 | Pots | 410 | 547 | 552 | 101 |
| <u>Bedding Garden Plants:</u> | | | | | | | |
| Hardy/Garden Chrysanthemums | 63 | 64 | Pots | 746 | 646 | 675 | 104 |
| Geraniums (Cuttings) | 70 | 79 | Pots | 1,580 | 1,826 | 1,931 | 106 |
| Impatiens | 27 | 37 | Pots | 51 | 101 | 111 | 110 |
| New Guinea Impatiens | 58 | 72 | Pots | 302 | 423 | 434 | 103 |
| Petunias | 22 | 33 | Pots | 46 | 81 | 90 | 111 |
| Other Potted Flowering and Foliage Type | 59 | 70 | Pots | 1,572 | 2,324 | 2,693 | 116 |
| Vegetable Type | 45 | 50 | Pots | 535 | 709 | 707 | 100 |
| Geraniums | 25 | 27 | Flats | 69 | 82 | 87 | 106 |
| Impatiens | 62 | 73 | Flats | 221 | 235 | 248 | 106 |
| New Guinea Impatiens | 18 | 20 | Flats | 18 | 21 | 22 | 105 |
| Petunias | 66 | 74 | Flats | 237 | 232 | 241 | 104 |
| Other Flowering and Foliage Type | 68 | 77 | Flats | 923 | 965 | 1,100 | 114 |
| Vegetable Type | 64 | 71 | Flats | 146 | 148 | 150 | 101 |
| <u>Foliage For Indoor Or Patio:</u> | | | | | | | |
| Geraniums Hanging Baskets | 72 | 87 | Baskets | 190 | 224 | 228 | 102 |
| Impatiens Hanging Baskets | 67 | 80 | Baskets | 102 | 128 | 128 | 100 |
| New Guinea Impatiens Hanging Baskets | 61 | 71 | Baskets | 123 | 133 | 142 | 107 |
| Petunias Hanging Baskets | 55 | 69 | Baskets | 32 | 43 | 48 | 112 |
| Foliage Hanging Baskets | 21 | 18 | Baskets | 103 | 121 | 113 | 93 |
| Other Flowering Hanging Baskets | 77 | 88 | Baskets | 413 | 404 | 443 | 110 |

1/ Summarized only from producers with \$100,000 or more in annual sales.

FLORICULTURE: CUT FLOWERS AND POTTED FOLIAGE, MINNESOTA, 1996-97 1/

| Item | Producers | | Area For Production | | | |
|-------------------|-----------|------|---------------------|-------------------|---------------|---------------------------|
| | 1996 | 1997 | 1996 | 1997 | Intended 1998 | 1998 As A Percent Of 1997 |
| | Number | | | 1,000 Square Feet | | Percent |
| Other Cut Flowers | 13 | 14 | 877 | 984 | 1,018 | 103 |
| Potted Foliage | 15 | 14 | 157 | 143 | 138 | 97 |

1/ Summarized only from producers with \$100,000 or more in annual sales.

1996 CORN CHEMICAL USAGE

Nitrogen was applied to 98% of the total 1996 corn acreage in the 16 states surveyed. All of the major producing states had at least 88% or more of the acreage treated. Growers used an average of 1.8 applications per acre applying 75 pounds per treatment. In the states surveyed, 85% of the planted corn acreage received phosphates. Potash fertilizer was applied to 73% of the corn acreage.

Herbicides were applied to 97% of the 16 state total corn acreage in 1996, while insecticides were used on 30% of the acreage. Atrazine was the most used herbicide with 71% of the reported acreage being treated. Atrazine was applied at a rate of 0.99 pound per acre on the average. Metolachlor and Dicamba were the next two most widely used herbicides, and they were applied to 30% and 25% of the acreage, respectively. Acetochlor usage has increased substantially since being approved by EPA, going from 7% coverage in 1994 to 22% in 1996 in the 16 comparable states. Chlorpyrifos and Terbufos were the most used insecticides, and they were applied to 8% and 6% of the acreage, respectively.

CORN: ACREAGE, PERCENT RECEIVING CHEMICALS, NUMBER OF APPLICATIONS, RATES PER APPLICATION, SELECTED STATES, 1996

| State | Area Planted | Nitrogen | | | Phosphate | | | Potash | | | Herbicide | Insecticide |
|----------|--------------|-----------------|---------------|-----------------------|-----------------|---------------|-----------------------|-----------------|---------------|-----------------------|-----------------|-----------------|
| | | Area Applied 1/ | Appli-cations | Rate per Appli-cation | Area Applied 1/ | Appli-cations | Rate per Appli-cation | Area Applied 1/ | Appli-cations | Rate per Appli-cation | Area Applied 1/ | Area Applied 1/ |
| | 1,000 Acres | Percent | Number | Pounds | Percent | Number | Pounds | Percent | Number | Pounds | Percent | Percent |
| IA | 12,700 | 98 | 1.5 | 85 | 83 | 1.1 | 56 | 81 | 1.1 | 71 | 99 | 17 |
| MN | 7,500 | 97 | 1.7 | 64 | 94 | 1.1 | 47 | 86 | 1.1 | 58 | 97 | 13 |
| WI | 3,900 | 94 | 1.7 | 48 | 89 | 1.0 | 38 | 88 | 1.2 | 53 | 93 | 37 |
| SD | 4,000 | 88 | 1.5 | 60 | 77 | 1.0 | 33 | 39 | 1.0 | 20 | 91 | 25 |
| TOTAL 2/ | 70,250 | 98 | 1.8 | 75 | 85 | 1.1 | 52 | 73 | 1.1 | 72 | 97 | 30 |

1/ Refers to acres receiving one or more applications of a specific chemical.

2/ Refers to 16 major corn states including: IL, IN, IA, KS, KY, MI, MN, MO, NE, NC, OH, PA, SC, SD, TX, and WI.

CORN: FREQUENCY AND EXTENT OF CHEMICAL USAGE BY ACTIVE INGREDIENT, MINNESOTA, 1996

| Active Ingredient | Area Applied 1/ | Applications | Rate per Application | Rate per year | Total Applied |
|-------------------|-----------------|--------------|----------------------|---------------|---------------|
| | Percent | Number | Pounds | Pounds | 1,000 Pounds |
| HERBICIDES: | | | | | |
| 2,4-D | 7 | 1.0 | 0.21 | 0.21 | 117 |
| Acetochlor | 33 | 1.0 | 1.72 | 1.79 | 4,388 |
| Alachlor | 9 | 1.0 | 2.19 | 2.19 | 1,543 |
| Atrazine | 47 | 1.0 | 0.60 | 0.62 | 2,156 |
| Bromoxynil | 12 | 1.0 | 0.20 | 0.20 | 182 |
| Cyanazine | 13 | 1.0 | 1.69 | 1.69 | 1,590 |
| Dicamba | 47 | 1.0 | 0.32 | 0.32 | 1,143 |
| EPTC | 8 | 1.0 | 3.99 | 3.99 | 2,300 |
| Metolachlor | 16 | 1.0 | 2.48 | 2.53 | 3,066 |
| Nicosulfuron | 23 | 1.0 | 0.03 | 0.03 | 52 |
| Primisulfuron | 10 | 1.0 | 0.02 | 0.02 | 16 |

1/ Refers to acres receiving one or more applications of a specific chemical.

Note: 1997 numbers were not available at time of publication.

1997 CORN CHEMICAL USAGE

Nitrogen was applied to 99 percent of the total 1997 corn acreage in the Program States which includes Illinois, Indiana, Iowa, Michigan, Minnesota, Missouri, Nebraska, Ohio, South Dakota, and Wisconsin. South Dakota with 96 percent of the corn acreage treated was the lowest. The next lowest was Minnesota, where growers treated 97 percent of the planted acreage. Growers in Indiana, Michigan, Missouri, and Nebraska reported 100 percent of the acreage treated. Growers used an average of 1.7 applications per acre applying 76 pounds per treatment. In the States surveyed, 84 percent of the planted corn acreage received phosphates, and potash was applied to 72 percent of the acreage.

Herbicides were applied to 96 percent of the corn acreage in 1997. Atrazine was the most used herbicide with 69 percent of the reported acreage being treated. Atrazine was applied at the rate of 1.01 pound per acre. Dicamba and Metolachlor were the next two most widely used herbicides and they were applied to 29 and 35 percent of the reported acreage, respectively.

CORN: Acreage, Percent Receiving Chemicals, Number of Applications, Rates per Application, Selected States, 1997

| State | Area Planted | Nitrogen | | | Phosphate | | | Potash | | | Herbicide | Insecticide |
|-----------------|-----------------|-----------------------|-------------------|------------------------------|-----------------------|-------------------|------------------------------|-----------------------|-------------------|------------------------------|-----------------------|-----------------------|
| | | Area Applied 1/ | Appli- cations | Rate per Appli- cation | Area Applied 1/ | Appli- cations | Rate per Appli- cation | Area Applied 1/ | Appli- cations | Rate per Appli- cation | Area Applied 1/ | Area Applied 1/ |
| | 1,000 Acres | Percent | Number | Pounds | Percent | Number | Pounds | Percent | Number | Pounds | Percent | Percent |
| IA | 12,200 | 99 | 1.6 | 77 | 75 | 1.1 | 57 | 75 | 1.1 | 67 | 98 | 19 |
| MN | 7,000 | 97 | 1.5 | 74 | 79 | 1.1 | 44 | 81 | 1.2 | 46 | 91 | 10 |
| WI | 3,800 | 98 | 1.6 | 49 | 97 | 1.0 | 42 | 93 | 1.2 | 59 | 98 | 19 |
| Total 2/ | 62,150 | 99 | 1.7 | 76 | 84 | 1.1 | 52 | 72 | 1.1 | 73 | 96 | 30 |

1/ Refers to acres receiving one or more applications of a specific chemical.

2/ Refers to 10 major corn states including: IL, IN, IA, MI, MN, MO, NE, OH, SD, and WI.

CORN: Frequency and Extent of Chemical Usage by Active Ingredient, Minnesota, 1997 1/

| Active Ingredient | Area Applied 2/ | Applications | Rate per Application | Rate per Year | Total Applied |
|----------------------|--------------------|--------------|-------------------------|------------------|------------------|
| | Percent | Number | Pounds | Pounds | 1,000 Pounds |
| Herbicides | | | | | |
| 2,4-D | 9 | 1.0 | 0.24 | 0.25 | 163 |
| Acetochlor | 29 | 1.0 | 1.43 | 1.43 | 2,850 |
| Alachlor | 1 | 1.0 | 1.99 | 1.99 | 207 |
| Atrazine | 35 | 1.1 | 0.61 | 0.65 | 1578 |
| Bromoxynil | 11 | 1.0 | 0.26 | 0.26 | 210 |
| Clopyralid | 7 | 1.0 | 0.05 | 0.05 | 24 |
| Cyanazine | 6 | 1.0 | 1.14 | 1.14 | 460 |
| Dicamba | 54 | 1.0 | 0.26 | 0.26 | 1,007 |
| Dimethenamid | 5 | 1.0 | 0.82 | 0.82 | 310 |
| EPTC | 8 | 1.0 | 3.96 | 3.96 | 2,330 |
| Flumetsulam | 7 | 1.0 | 0.02 | 0.02 | 9 |
| Metolachlor | 22 | 1.0 | 2.74 | 2.74 | 4,204 |
| Nicosulfuron | 32 | 1.0 | 0.02 | 0.02 | 50 |
| Pendimethalin | 5 | 1.0 | 1.08 | 1.08 | 365 |
| Primisulfuron | 13 | 1.0 | 0.02 | 0.02 | 16 |

1/ Planted areas in 1997 for Minnesota were 7.00 million acres.

2/ Refers to acres receiving one or more applications of a specific chemical

1996 SOYBEAN CHEMICAL USAGE

Nitrogen was applied to 15% of the total 1996 soybean acreage in the 11 states surveyed. Ten percent of Minnesota soybean acres were treated with nitrogen. Growers in the 11 states applied an average of 1.1 treatments per acre and used an average of 23 pounds per treatment. In the states surveyed, 25% of the soybean acreage received phosphate fertilizer. Potash fertilizer was applied to 27% of the soybean acreage.

Herbicides were applied to 97% of the total soybean acreage in the 11 states surveyed. Imazethapyr was applied to 43% of the acreage, with pendimethalin and glyphosate applied to 27% and 25% of the acreage, respectively. Growers in the surveyed states applied insecticide to only 1 percent of the total soybean acres planted. With the exception of Methylparathion in Louisiana, there were too few reports to publish individual state data for the insecticides. Growers reported few fungicide or other chemical applications.

SOYBEAN: ACREAGE, PERCENT RECEIVING CHEMICALS, NUMBER OF APPLICATIONS, RATES PER APPLICATION, SELECTED STATES, 1996

| State | Area Planted | Nitrogen | | | Phosphate | | | Potash | | | Herbicide | Insecticide 3/ |
|----------|--------------|-----------------|---------------|-----------------------|-----------------|---------------|-----------------------|-----------------|---------------|-----------------------|-----------------|-----------------|
| | | Area Applied 1/ | Appli-cations | Rate per Appli-cation | Area Applied 1/ | Appli-cations | Rate per Appli-cation | Area Applied 1/ | Appli-cations | Rate per Appli-cation | Area Applied 1/ | Area Applied 1/ |
| | 1,000 Acres | Percent | Number | Pounds | Percent | Number | Pounds | Percent | Number | Pounds | Percent | Percent |
| IA | 9,500 | 8 | 1.0 | 26 | 12 | 1.0 | 49 | 14 | 1.0 | 75 | 99 | 4/ |
| MN | 5,950 | 10 | 1.0 | 15 | 14 | 1.0 | 47 | 10 | 1.0 | 69 | 98 | 4/ |
| IL | 9,900 | 15 | 1.0 | 22 | 23 | 1.0 | 55 | 34 | 1.0 | 99 | 97 | 4/ |
| IN | 5,400 | 23 | 1.2 | 26 | 33 | 1.0 | 44 | 44 | 1.0 | 99 | 97 | 4/ |
| TOTAL 2/ | 50,050 | 15 | 1.1 | 23 | 25 | 1.0 | 48 | 27 | 1.0 | 85 | 97 | 1 |

* Applied on less than one percent of the acres.

1/ Refers to acres receiving one or more applications of a specific chemical.

2/ Refers to 11 major soybean states including: AR, IL, IN, IA, LA, MN, MS, MO, NE, OH, and TN.

3/ Total applied excludes Bt's (Bacillus thuringiensis). Quantities are not available because amounts of active ingredients are not comparable between products.

4/ Insufficient reports to publish data for one or more of the pesticide classes.

SOYBEANS: FREQUENCY AND EXTENT OF CHEMICAL USAGE BY ACTIVE INGREDIENT, MINNESOTA, 1996

| Active Ingredient | Area Applied 1/ | Applications | Rate per Application | Rate per year | Total Applied |
|-------------------|-----------------|--------------|----------------------|---------------|---------------|
| | Percent | Number | Pounds | Pounds | 1,000 Pounds |
| HERBICIDES: | | | | | |
| Acifluorfen | 6 | 1.0 | 0.18 | 0.18 | 66 |
| Bentazon | 24 | 1.3 | 0.79 | 1.06 | 1,505 |
| Fenoxaprop | 5 | 1.1 | 0.15 | 0.17 | 53 |
| Fluazifop-P-butyl | 7 | 1.1 | 0.05 | 0.06 | 24 |
| Glyphosate | 7 | 1.0 | 0.49 | 0.49 | 201 |
| Imazethapyr | 64 | 1.0 | 0.05 | 0.05 | 203 |
| Lactofen | 5 | 1.0 | 0.06 | 0.06 | 17 |
| Pendimethalin | 17 | 1.0 | 1.14 | 1.14 | 1,150 |
| Quizalofop-ethyl | 15 | 1.0 | 0.05 | 0.05 | 43 |
| Sethoxydim | 8 | 1.0 | 0.32 | 0.32 | 159 |
| Thifensulfuron | 13 | 1.0 | 0.002 | 0.003 | 2 |
| Trifluralin | 40 | 1.0 | 0.73 | 0.73 | 1,746 |

1/ Refers to acres receiving one or more applications of a specific chemical.

Note: 1997 numbers were not available at time of publication.

1996 SPRING WHEAT CHEMICAL USAGE

The 3 survey states totaled 16.35 million planted acres in 1996. Primary fertilizer area application percentages in the 3 states sampled for spring wheat (other than durum) were about the same as in 1995. Nitrogen was applied to 89% of the total 1996 spring wheat acreage in the three states surveyed. All of the major producing states had at least 83% or more of the acreage treated. Growers averaged 1.6 applications per acre applying 43 pounds per treatment. In the states surveyed, 79% of the planted spring wheat acreage received phosphates. Potash fertilizer was applied to 24% of the spring wheat acreage.

Herbicides were applied to 88% of the total spring wheat acreage in the three states in 1996. 2,4-D was applied to 50% of the acreage, with MCPA and Dicamba applied to 38% and 28% of the acreage respectively. There were too few reports to publish insecticide applications, but insecticide applications were reported on 3% of the total spring wheat planted acreage. None of the 3 states reported fungicide applications on the total spring wheat planted acreage.

SPRING WHEAT: ACREAGE, PERCENT RECEIVING CHEMICALS, NUMBER OF APPLICATIONS, RATES PER APPLICATION, MAJOR STATES, 1996

| State | Area Planted | Nitrogen | | | Phosphate | | | Potash | | | Herbicide | Insecticide |
|-------|--------------|-----------------|---------------|-----------------------|-----------------|---------------|-----------------------|-----------------|---------------|-----------------------|-----------------|-----------------|
| | | Area Applied 1/ | Appli-cations | Rate per Appli-cation | Area Applied 1/ | Appli-cations | Rate per Appli-cation | Area Applied 1/ | Appli-cations | Rate per Appli-cation | Area Applied 1/ | Area Applied 1/ |
| | 1,000 Acres | Percent | Number | Pounds | Percent | Number | Pounds | Percent | Number | Pounds | Percent | Percent |
| MN | 2,550 | 98 | 1.4 | 64 | 87 | 1.0 | 37 | 48 | 1.0 | 28 | 96 | 2/ |
| MT | 4,200 | 83 | 1.6 | 32 | 78 | 1.0 | 27 | 9 | 1.0 | 9 | 76 | 2/ |
| ND | 9,600 | 90 | 1.6 | 42 | 78 | 1.0 | 30 | 24 | 1.0 | 20 | 92 | 2/ |
| TOTAL | 16,350 | 89 | 1.6 | 43 | 79 | 1.0 | 31 | 24 | 1.0 | 21 | 88 | 3 |

* Applied on less than one percent of the acres.

1/ Refers to acres receiving one or more applications of a specific chemical.

2/ Insufficient reports to publish data for one or more of the pesticide classes.

SPRING WHEAT: FREQUENCY AND EXTENT OF CHEMICAL USAGE BY ACTIVE INGREDIENT, MINNESOTA, 1996

| Active Ingredient | Area Applied 1/ | Applications | Rate per Application | Rate per year | Total Applied |
|-------------------|-----------------|--------------|----------------------|---------------|---------------|
| | Percent | Number | Pounds | Pounds | 1,000 Pounds |
| HERBICIDES: | | | | | |
| 2,4-D | 24 | 1.0 | 0.34 | 0.34 | 204 |
| Bromoxynil | 49 | 1.0 | 0.24 | 0.24 | 303 |
| Fenoxaprop | 28 | 1.0 | 0.08 | 0.08 | 60 |
| MCPA | 80 | 1.0 | 0.30 | 0.31 | 632 |
| Thifensulfuron | 20 | 1.0 | 0.009 | 0.009 | 4 |
| Tribenuron-methyl | 23 | 1.0 | 0.005 | 0.005 | 3 |

1/ Refers to acres receiving one or more applications of a specific chemical.

Note: 1997 numbers were not available at time of publication.

CORN: ACREAGE PLANTED FOR ALL PURPOSES, HARVESTED FOR GRAIN, YIELD, AND PRODUCTION, BY COUNTY AND DISTRICT, MINNESOTA, 1996-97

| County and District 1/ | Planted Acreage | | Harvested Acreage | | Yield Per Harvested Acre | | Production | |
|------------------------|-----------------|-----------|-------------------|-----------|--------------------------|-------|----------------|-------------|
| | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 |
| | <u>Acres</u> | | <u>Acres</u> | | <u>Bushels</u> | | <u>Bushels</u> | |
| Becker | 26,600 | 21,500 | 16,500 | 14,300 | 91.0 | 90.0 | 1,501,500 | 1,287,000 |
| Clay | 40,000 | 35,500 | 37,600 | 32,600 | 97.0 | 114.0 | 3,647,200 | 3,716,400 |
| Clearwater | 4,300 | 3,800 | 2,500 | 1,000 | 87.0 | 81.0 | 217,500 | 81,000 |
| Kittson | 3,800 | 4,100 | 1,500 | 1,400 | 57.0 | 90.0 | 85,500 | 126,000 |
| Mahnomen | 8,600 | 7,600 | 7,400 | 6,500 | 103.0 | 105.0 | 762,200 | 682,500 |
| Marshall | 6,900 | 7,100 | 5,800 | 5,500 | 68.0 | 80.0 | 394,400 | 440,000 |
| Norman | 20,000 | 21,900 | 17,300 | 18,500 | 95.0 | 83.0 | 1,643,500 | 1,535,500 |
| Pennington | 1,700 | 2,800 | 900 | 2,300 | 60.0 | 84.0 | 54,000 | 193,200 |
| Polk | 32,200 | 32,100 | 28,700 | 28,700 | 86.0 | 82.0 | 2,468,200 | 2,353,400 |
| Red Lake | 7,600 | 9,100 | 6,100 | 7,900 | 88.0 | 98.0 | 536,800 | 774,200 |
| Roseau | 6,500 | 7,100 | 2,000 | 4,000 | 88.0 | 91.0 | 176,000 | 364,000 |
| Northwest | 158,200 | 152,600 | 126,300 | 122,700 | 90.9 | 94.2 | 11,486,800 | 11,553,200 |
| Beltrami | 4,200 | 4,000 | 2,400 | 2,100 | 74.0 | 78.0 | 177,600 | 163,800 |
| Cass | 10,200 | 9,600 | 6,900 | 3,400 | 90.0 | 98.0 | 621,000 | 333,200 |
| Hubbard | 13,600 | 13,200 | 11,800 | 8,900 | 85.0 | 113.0 | 1,003,000 | 1,005,700 |
| Other Counties | 1,300 | 1,400 | 500 | 400 | 93.6 | 95.5 | 46,800 | 38,200 |
| North Central | 29,300 | 28,200 | 21,600 | 14,800 | 85.6 | 104.1 | 1,848,400 | 1,540,900 |
| Other Counties | 500 | 600 | 500 | 400 | 115.0 | 115.0 | 57,500 | 46,000 |
| Northeast | 500 | 600 | 500 | 400 | 115.0 | 115.0 | 57,500 | 46,000 |
| Big Stone | 67,900 | 65,300 | 66,600 | 63,500 | 111.0 | 117.0 | 7,392,600 | 7,429,500 |
| Chippewa | 133,800 | 136,100 | 131,800 | 134,100 | 130.0 | 126.0 | 17,134,000 | 16,896,600 |
| Douglas | 57,100 | 47,300 | 44,000 | 35,700 | 90.0 | 118.0 | 3,960,000 | 4,212,600 |
| Grant | 60,600 | 49,000 | 58,100 | 47,400 | 112.0 | 145.0 | 6,507,200 | 6,873,000 |
| Lac Qui Parle | 138,800 | 148,900 | 135,800 | 146,100 | 120.0 | 126.0 | 16,296,000 | 18,408,600 |
| Otter Tail | 168,000 | 147,200 | 131,700 | 116,600 | 95.0 | 115.0 | 12,511,500 | 13,409,000 |
| Pope | 94,100 | 87,900 | 83,400 | 80,300 | 110.0 | 131.0 | 9,174,000 | 10,519,300 |
| Stevens | 121,800 | 120,300 | 115,100 | 105,800 | 123.0 | 142.0 | 14,157,300 | 15,023,600 |
| Swift | 156,100 | 158,100 | 151,800 | 153,900 | 122.0 | 127.0 | 18,519,600 | 19,545,300 |
| Traverse | 76,000 | 69,400 | 74,800 | 68,600 | 118.0 | 133.0 | 8,826,400 | 9,123,800 |
| Wilkin | 36,700 | 33,200 | 36,100 | 31,800 | 111.0 | 113.0 | 4,007,100 | 3,593,400 |
| Yellow Medicine | 177,700 | 175,100 | 173,300 | 172,300 | 128.0 | 130.0 | 22,182,400 | 22,399,000 |
| West Central | 1,288,600 | 1,237,800 | 1,202,500 | 1,156,100 | 117.0 | 127.5 | 140,668,100 | 147,433,700 |
| Benton | 71,000 | 64,100 | 58,700 | 50,300 | 96.0 | 122.0 | 5,635,200 | 6,136,600 |
| Carver | 62,400 | 60,400 | 55,300 | 50,400 | 132.0 | 127.0 | 7,299,600 | 6,400,800 |
| Kandiyohi | 151,400 | 145,600 | 145,200 | 132,700 | 121.0 | 126.0 | 17,569,200 | 16,720,200 |
| McLeod | 90,500 | 94,300 | 85,100 | 88,500 | 133.0 | 128.0 | 11,318,300 | 11,328,000 |
| Meeker | 118,700 | 116,600 | 109,000 | 108,100 | 120.0 | 125.0 | 13,080,000 | 13,512,500 |
| Morrison | 105,800 | 77,200 | 77,000 | 58,900 | 77.0 | 120.0 | 5,929,000 | 7,068,000 |
| Renville | 245,500 | 240,900 | 242,000 | 234,800 | 140.0 | 133.0 | 33,880,000 | 31,228,400 |
| Scott | 42,600 | 39,500 | 37,100 | 34,400 | 120.0 | 141.0 | 4,452,000 | 4,850,400 |
| Sherburne | 34,000 | 32,500 | 30,200 | 30,000 | 112.0 | 123.0 | 3,382,400 | 3,690,000 |
| Sibley | 135,900 | 128,400 | 128,000 | 121,500 | 139.0 | 143.0 | 17,792,000 | 17,374,500 |
| Stearns | 240,800 | 202,000 | 190,700 | 156,000 | 107.0 | 129.0 | 20,404,900 | 20,124,000 |
| Todd | 95,100 | 88,000 | 69,600 | 56,300 | 88.0 | 106.0 | 6,124,800 | 5,967,800 |
| Wadena | 29,200 | 27,500 | 21,600 | 20,100 | 90.0 | 117.0 | 1,944,000 | 2,351,700 |
| Wright | 86,800 | 79,500 | 74,900 | 70,500 | 114.0 | 125.0 | 8,538,600 | 8,812,500 |
| Central | 1,509,700 | 1,396,500 | 1,324,400 | 1,212,500 | 118.8 | 128.3 | 157,350,000 | 155,565,400 |

1/ Counties with less than 1,000 acres planted for all purposes are not listed separately, but are combined under Other Counties.

--continued

CORN: ACREAGE PLANTED FOR ALL PURPOSES, HARVESTED FOR GRAIN, YIELD, AND PRODUCTION, BY COUNTY AND DISTRICT, MINNESOTA, 1996-97 (continued)

| County and District 1/ | Planted Acreage | | Harvested Acreage | | Yield Per Harvested Acre | | Production | |
|------------------------|------------------|------------------|-------------------|------------------|--------------------------|--------------|--------------------|--------------------|
| | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 |
| | <u>Acres</u> | | <u>Acres</u> | | <u>Bushels</u> | | <u>Bushels</u> | |
| Anoka | 12,400 | 12,300 | 10,800 | 11,300 | 92.0 | 99.0 | 993,600 | 1,118,700 |
| Carlton | 1,400 | 1,500 | 400 | 300 | 75.0 | 85.0 | 30,000 | 25,500 |
| Chisago | 33,900 | 33,000 | 28,100 | 27,200 | 96.0 | 106.0 | 2,697,600 | 2,883,200 |
| Crow Wing | 11,200 | 10,500 | 8,200 | 7,300 | 87.0 | 106.0 | 713,400 | 773,800 |
| Hennepin | 21,600 | 20,500 | 19,600 | 18,500 | 114.0 | 131.0 | 2,234,400 | 2,423,500 |
| Isanti | 45,700 | 42,600 | 42,200 | 39,700 | 87.0 | 113.0 | 3,671,400 | 4,486,100 |
| Kanabec | 20,800 | 20,200 | 15,700 | 16,200 | 56.0 | 112.0 | 879,200 | 1,814,400 |
| Mille Lacs | 31,400 | 28,600 | 24,600 | 21,700 | 84.0 | 113.0 | 2,066,400 | 2,452,100 |
| Pine | 27,000 | 25,600 | 16,800 | 18,500 | 77.0 | 114.0 | 1,293,600 | 2,109,000 |
| Washington | 24,100 | 23,000 | 22,800 | 21,800 | 116.0 | 146.0 | 2,644,800 | 3,182,800 |
| Other Counties | 1,500 | 1,600 | 500 | 500 | 89.4 | 104.0 | 44,700 | 52,000 |
| East Central | 231,000 | 219,400 | 189,700 | 183,000 | 91.0 | 116.5 | 17,269,100 | 21,321,100 |
| Cottonwood | 178,100 | 166,900 | 170,300 | 160,100 | 127.0 | 132.0 | 21,628,100 | 21,133,200 |
| Jackson | 195,700 | 179,000 | 190,100 | 176,200 | 140.0 | 128.0 | 26,614,000 | 22,553,600 |
| Lincoln | 87,200 | 87,000 | 79,800 | 77,600 | 108.0 | 97.0 | 8,618,400 | 7,527,200 |
| Lyon | 189,700 | 170,200 | 183,100 | 154,500 | 124.0 | 122.0 | 22,704,400 | 18,849,000 |
| Murray | 192,600 | 172,700 | 183,500 | 160,700 | 115.0 | 116.0 | 21,102,500 | 18,641,200 |
| Nobles | 214,500 | 199,200 | 205,900 | 191,500 | 124.0 | 111.0 | 25,531,600 | 21,256,500 |
| Pipestone | 114,000 | 103,100 | 107,200 | 93,200 | 115.0 | 103.0 | 12,328,000 | 9,599,600 |
| Redwood | 238,200 | 222,900 | 231,900 | 213,700 | 137.0 | 134.0 | 31,770,300 | 28,635,800 |
| Rock | 142,900 | 127,700 | 138,300 | 121,100 | 124.0 | 124.0 | 17,149,200 | 15,016,400 |
| Southwest | 1,552,900 | 1,428,700 | 1,490,100 | 1,348,600 | 125.8 | 121.0 | 187,446,500 | 163,212,500 |
| Blue Earth | 188,400 | 175,500 | 184,100 | 171,500 | 140.0 | 144.0 | 25,774,000 | 24,696,000 |
| Brown | 155,000 | 145,900 | 148,600 | 137,500 | 143.0 | 141.0 | 21,249,800 | 19,387,500 |
| Faribault | 219,400 | 193,800 | 215,400 | 190,900 | 140.0 | 150.0 | 30,156,000 | 28,635,000 |
| Freeborn | 192,500 | 179,200 | 187,700 | 176,000 | 134.0 | 149.0 | 25,151,800 | 26,224,000 |
| Le Sueur | 89,400 | 87,300 | 85,900 | 83,800 | 129.0 | 144.0 | 11,081,100 | 12,067,200 |
| Martin | 228,500 | 215,500 | 222,300 | 212,100 | 148.0 | 149.0 | 32,900,400 | 31,602,900 |
| Nicollet | 119,200 | 110,500 | 113,900 | 105,800 | 147.0 | 147.0 | 16,743,300 | 15,552,600 |
| Rice | 86,700 | 80,500 | 80,500 | 75,600 | 128.0 | 149.0 | 10,304,000 | 11,264,400 |
| Steele | 116,000 | 107,400 | 111,000 | 103,900 | 133.0 | 142.0 | 14,763,000 | 14,753,800 |
| Waseca | 125,500 | 119,300 | 122,800 | 116,700 | 134.0 | 148.0 | 16,455,200 | 17,271,600 |
| Watsonwan | 131,100 | 122,400 | 127,900 | 120,800 | 143.0 | 147.0 | 18,289,700 | 17,757,600 |
| South Central | 1,651,700 | 1,537,300 | 1,600,100 | 1,494,600 | 139.3 | 146.7 | 222,868,300 | 219,212,600 |
| Dakota | 99,700 | 96,100 | 90,700 | 91,100 | 130.0 | 153.0 | 11,791,000 | 13,938,300 |
| Dodge | 113,100 | 108,500 | 108,200 | 103,800 | 125.0 | 149.0 | 13,525,000 | 15,466,200 |
| Fillmore | 162,800 | 149,400 | 147,100 | 136,900 | 125.0 | 152.0 | 18,387,500 | 20,808,800 |
| Goodhue | 149,000 | 135,100 | 136,500 | 123,000 | 131.0 | 151.0 | 17,881,500 | 18,573,000 |
| Houston | 66,400 | 60,800 | 58,600 | 52,300 | 136.0 | 148.0 | 7,969,600 | 7,740,400 |
| Mower | 195,100 | 181,200 | 190,800 | 176,600 | 131.0 | 148.0 | 24,994,800 | 26,136,800 |
| Olmsted | 117,400 | 109,000 | 108,600 | 101,900 | 126.0 | 150.0 | 13,683,600 | 15,285,000 |
| Wabasha | 86,700 | 76,500 | 78,000 | 67,000 | 138.0 | 151.0 | 10,764,000 | 10,117,000 |
| Winona | 87,900 | 82,300 | 76,300 | 64,700 | 141.0 | 153.0 | 10,758,300 | 9,899,100 |
| Southeast | 1,078,100 | 998,900 | 994,800 | 917,300 | 130.4 | 150.4 | 129,755,300 | 137,964,600 |
| Minnesota | 7,500,000 | 7,000,000 | 6,950,000 | 6,450,000 | 125.0 | 133.0 | 868,750,000 | 857,850,000 |

1/ Counties with less than 1,000 acres planted for all purposes are not listed separately, but are combined under Other Counties.

CORN FOR SILAGE: ACREAGE HARVESTED, YIELD, AND PRODUCTION, BY COUNTY AND DISTRICT, MINNESOTA, 1996-97

| County and District 1/ | Harvested Acreage | | Yield Per Harvested Acre | | Production | |
|------------------------|-------------------|---------|--------------------------|------|-------------|-----------|
| | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 |
| | <u>Acres</u> | | <u>Tons</u> | | <u>Tons</u> | |
| Becker | 9,600 | 6,800 | 10.6 | 11.0 | 101,800 | 74,800 |
| Clay | 1,800 | 2,100 | 10.4 | 9.0 | 18,700 | 18,900 |
| Clearwater | 1,600 | 2,700 | 9.2 | 9.2 | 14,700 | 24,800 |
| Kittson | 1,800 | 2,300 | 5.5 | 8.0 | 9,900 | 18,400 |
| Mahnomen | 1,100 | 1,000 | 9.6 | 8.4 | 10,600 | 8,400 |
| Marshall | 1,000 | 1,500 | 8.7 | 10.0 | 8,700 | 15,000 |
| Norman | 2,400 | 3,100 | 10.5 | 7.0 | 25,200 | 21,700 |
| Pennington | 800 | 400 | 8.6 | 10.3 | 6,900 | 4,100 |
| Polk | 2,700 | 2,900 | 9.5 | 9.6 | 25,600 | 27,900 |
| Red Lake | 1,400 | 1,100 | 8.1 | 11.0 | 11,300 | 12,100 |
| Roseau | 4,400 | 2,700 | 9.2 | 10.0 | 40,500 | 27,000 |
| Northwest | 28,600 | 26,600 | 9.6 | 9.5 | 273,900 | 253,100 |
| Beltrami | 1,700 | 1,800 | 9.9 | 7.4 | 16,800 | 13,300 |
| Cass | 3,200 | 6,000 | 10.0 | 10.4 | 32,000 | 62,400 |
| Hubbard | 1,600 | 4,100 | 8.2 | 7.0 | 13,100 | 28,700 |
| Other Counties | 800 | 1,000 | 8.6 | 8.5 | 6,900 | 8,500 |
| North Central | 7,300 | 12,900 | 9.4 | 8.8 | 68,800 | 112,900 |
| Other Counties | -- | 200 | -- | 8.0 | -- | 1,600 |
| Northeast | -- | 200 | -- | 8.0 | -- | 1,600 |
| Big Stone | 500 | 1,000 | 12.0 | 12.4 | 6,000 | 12,400 |
| Chippewa | 900 | 800 | 10.2 | 13.0 | 9,200 | 10,400 |
| Douglas | 12,800 | 11,100 | 11.5 | 12.2 | 147,200 | 135,400 |
| Grant | 2,000 | 1,100 | 14.2 | 15.0 | 28,400 | 16,500 |
| Lac Qui Parle | 1,900 | 1,500 | 10.5 | 13.4 | 19,900 | 20,100 |
| Otter Tail | 33,100 | 27,700 | 10.7 | 13.0 | 354,200 | 360,100 |
| Pope | 10,100 | 6,500 | 11.9 | 16.6 | 120,200 | 107,900 |
| Stevens | 5,100 | 13,500 | 15.1 | 17.0 | 77,000 | 229,500 |
| Swift | 3,200 | 2,800 | 12.0 | 12.8 | 38,400 | 35,800 |
| Traverse | 700 | 200 | 14.9 | 13.5 | 10,400 | 2,700 |
| Wilkin | 400 | 1,100 | 10.5 | 9.2 | 4,200 | 10,100 |
| Yellow Medicine | 2,500 | 1,100 | 13.4 | 12.0 | 33,500 | 13,200 |
| West Central | 73,200 | 68,400 | 11.6 | 13.9 | 848,600 | 954,100 |
| Benton | 11,700 | 12,600 | 11.9 | 13.8 | 139,200 | 173,900 |
| Carver | 6,700 | 8,900 | 15.6 | 15.6 | 104,400 | 138,800 |
| Kandiyohi | 4,700 | 6,800 | 15.9 | 11.6 | 74,700 | 78,900 |
| McLeod | 4,700 | 4,300 | 16.2 | 13.0 | 76,100 | 55,900 |
| Meeker | 8,800 | 5,600 | 12.7 | 14.6 | 111,800 | 81,800 |
| Morrison | 27,300 | 16,200 | 10.0 | 14.2 | 273,000 | 230,000 |
| Renville | 1,800 | 3,000 | 11.2 | 16.0 | 20,200 | 48,000 |
| Scott | 5,200 | 4,700 | 10.4 | 15.4 | 54,100 | 72,400 |
| Sherburne | 3,600 | 2,100 | 11.8 | 12.0 | 42,500 | 25,200 |
| Sibley | 6,300 | 4,900 | 19.6 | 15.8 | 123,500 | 77,400 |
| Stearns | 48,300 | 43,300 | 12.6 | 14.6 | 608,600 | 632,200 |
| Todd | 24,000 | 30,900 | 11.7 | 12.8 | 280,800 | 395,500 |
| Wadena | 7,100 | 7,100 | 9.6 | 14.8 | 68,200 | 105,100 |
| Wright | 11,200 | 8,100 | 10.7 | 14.8 | 119,800 | 119,900 |
| Central | 171,400 | 158,500 | 12.2 | 14.1 | 2,096,900 | 2,235,000 |

1/ Counties with less than 1,000 acres planted for all purposes are not listed separately, but are combined under Other Counties. Counties denoted with "--" are also less than 1,000 acres and are included in Other Counties.

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CORN FOR SILAGE: ACREAGE HARVESTED, YIELD, AND PRODUCTION, BY COUNTY AND DISTRICT, MINNESOTA, 1996-97 (continued)

| County and District 1/ | Harvested Acreage | | Yield Per Harvested Acre | | Production | |
|------------------------|-------------------|----------------|--------------------------|-------------|------------------|------------------|
| | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 |
| | Acres | | Tons | | Tons | |
| Anoka | 1,400 | 800 | 10.2 | 12.8 | 14,300 | 10,200 |
| Carlton | 1,000 | 1,100 | 10.6 | 8.0 | 10,600 | 8,800 |
| Chisago | 5,500 | 5,000 | 11.9 | 15.0 | 65,500 | 75,000 |
| Crow Wing | 2,800 | 3,100 | 10.9 | 10.6 | 30,500 | 32,900 |
| Hennepin | 1,500 | 1,600 | 11.2 | 12.0 | 16,800 | 19,200 |
| Isanti | 2,900 | 2,200 | 10.8 | 13.4 | 31,300 | 29,500 |
| Kanabec | 4,700 | 3,600 | 9.0 | 10.0 | 42,300 | 36,000 |
| Mille Lacs | 6,200 | 6,500 | 12.5 | 13.0 | 77,500 | 84,500 |
| Pine | 9,900 | 6,800 | 10.6 | 11.0 | 105,100 | 74,800 |
| Washington | 1,100 | 1,000 | 11.4 | 14.0 | 12,500 | 14,000 |
| Other Counties | 900 | 1,000 | 11.7 | 10.1 | 10,500 | 10,100 |
| East Central | 37,900 | 32,700 | 11.0 | 12.1 | 416,900 | 395,000 |
| Cottonwood | 6,200 | 5,100 | 13.1 | 17.0 | 81,200 | 86,700 |
| Jackson | 3,000 | 1,300 | 19.3 | 16.5 | 57,900 | 21,400 |
| Lincoln | 6,500 | 4,800 | 9.8 | 11.6 | 63,700 | 55,700 |
| Lyon | 4,900 | 7,200 | 13.0 | 10.4 | 63,700 | 74,900 |
| Murray | 5,000 | 9,200 | 11.1 | 17.4 | 55,500 | 160,100 |
| Nobles | 5,900 | 6,100 | 13.5 | 14.6 | 79,600 | 89,100 |
| Pipestone | 6,000 | 7,900 | 12.0 | 15.0 | 72,000 | 118,500 |
| Redwood | 4,500 | 7,300 | 14.9 | 15.0 | 67,100 | 109,500 |
| Rock | 3,500 | 5,600 | 18.9 | 13.2 | 66,200 | 73,900 |
| Southwest | 45,500 | 54,500 | 13.3 | 14.5 | 606,900 | 789,800 |
| Blue Earth | 1,900 | 1,700 | 14.8 | 19.2 | 28,100 | 32,600 |
| Brown | 5,200 | 6,500 | 14.2 | 16.4 | 73,800 | 106,600 |
| Faribault | 2,500 | 1,200 | 20.2 | 20.8 | 50,500 | 25,000 |
| Freeborn | 3,500 | 1,500 | 18.0 | 17.0 | 63,000 | 25,500 |
| Le Sueur | 2,700 | 2,500 | 17.3 | 17.6 | 46,700 | 44,000 |
| Martin | 4,000 | 1,400 | 19.8 | 17.8 | 79,200 | 24,900 |
| Nicollet | 3,700 | 3,500 | 18.5 | 15.8 | 68,500 | 55,300 |
| Rice | 5,500 | 3,900 | 16.3 | 19.6 | 89,700 | 76,500 |
| Steele | 4,200 | 2,500 | 15.8 | 15.6 | 66,400 | 39,000 |
| Waseca | 1,900 | 1,500 | 14.8 | 15.4 | 28,100 | 23,100 |
| Watsonwan | 1,800 | 500 | 18.9 | 16.0 | 34,000 | 8,000 |
| South Central | 36,900 | 26,700 | 17.0 | 17.2 | 628,000 | 460,500 |
| Dakota | 7,900 | 3,400 | 19.4 | 15.6 | 153,300 | 53,000 |
| Dodge | 4,200 | 3,800 | 16.2 | 17.6 | 68,000 | 66,900 |
| Fillmore | 14,600 | 10,800 | 13.3 | 19.6 | 194,200 | 211,700 |
| Goodhue | 11,300 | 10,200 | 18.2 | 19.0 | 205,700 | 193,800 |
| Houston | 7,100 | 7,600 | 19.2 | 17.8 | 136,300 | 135,300 |
| Mower | 2,800 | 3,000 | 18.1 | 15.6 | 50,700 | 46,800 |
| Olmsted | 7,800 | 5,700 | 16.4 | 15.0 | 127,900 | 85,500 |
| Wabasha | 7,800 | 8,200 | 16.1 | 20.8 | 125,600 | 170,500 |
| Winona | 10,700 | 16,800 | 16.2 | 21.4 | 173,300 | 359,500 |
| Southeast | 74,200 | 69,500 | 16.6 | 19.0 | 1,235,000 | 1,323,000 |
| Minnesota | 475,000 | 450,000 | 13.0 | 14.5 | 6,175,000 | 6,525,000 |

1/ Counties with less than 1,000 acres planted for all purposes are not listed separately, but are combined under Other Counties. Counties denoted with "---" are also less than 1,000 acres and are included in Other Counties.

**SOYBEANS: ACREAGE, YIELD, AND PRODUCTION, BY COUNTY AND DISTRICT,
MINNESOTA, 1996-97**

| County and District 1/ | Planted Acreage | | Harvested Acreage | | Yield Per Harvested Acre | | Production | |
|------------------------|-----------------|-----------|-------------------|-----------|--------------------------|------|----------------|------------|
| | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 |
| | <u>Acres</u> | | <u>Acres</u> | | <u>Bushels</u> | | <u>Bushels</u> | |
| Becker | 49,300 | 62,200 | 49,200 | 61,800 | 30.0 | 33.0 | 1,476,000 | 2,039,400 |
| Clay | 79,300 | 88,300 | 78,400 | 87,400 | 30.0 | 34.0 | 2,352,000 | 2,971,600 |
| Clearwater | -- | 1,700 | -- | 1,600 | -- | 27.0 | -- | 43,200 |
| Kittson | 1,600 | 10,500 | 1,600 | 10,400 | 18.0 | 29.0 | 28,800 | 301,600 |
| Mahnomen | 24,300 | 35,700 | 24,300 | 35,000 | 34.0 | 35.0 | 826,200 | 1,225,000 |
| Marshall | 12,700 | 41,000 | 12,700 | 40,000 | 29.0 | 32.0 | 368,300 | 1,280,000 |
| Norman | 80,000 | 103,300 | 79,000 | 101,900 | 29.0 | 30.0 | 2,291,000 | 3,057,000 |
| Pennington | 2,500 | 11,100 | 2,400 | 11,000 | 25.0 | 29.0 | 60,000 | 319,000 |
| Polk | 71,700 | 121,600 | 71,600 | 117,400 | 28.0 | 30.0 | 2,004,800 | 3,522,000 |
| Red Lake | 13,800 | 23,100 | 13,800 | 23,000 | 25.0 | 29.0 | 345,000 | 667,000 |
| Roseau | -- | 2,500 | -- | 2,300 | -- | 27.0 | -- | 62,100 |
| Other Counties | 1,500 | -- | 1,500 | -- | 30.0 | -- | 45,000 | -- |
| Northwest | 336,700 | 501,000 | 334,500 | 491,800 | 29.3 | 31.5 | 9,797,100 | 15,487,900 |
| Big Stone | 104,500 | 110,900 | 103,600 | 109,500 | 32.0 | 35.0 | 3,315,200 | 3,832,500 |
| Chippewa | 137,700 | 140,600 | 136,300 | 138,500 | 37.0 | 38.0 | 5,043,100 | 5,263,000 |
| Douglas | 44,900 | 46,700 | 44,600 | 46,400 | 30.0 | 36.0 | 1,338,000 | 1,670,400 |
| Grant | 112,900 | 128,300 | 111,800 | 126,900 | 35.0 | 38.0 | 3,913,000 | 4,822,200 |
| Lac Qui Parle | 183,000 | 186,000 | 181,200 | 184,100 | 34.0 | 37.0 | 6,160,800 | 6,811,700 |
| Otter Tail | 77,600 | 85,400 | 77,200 | 84,400 | 32.0 | 35.0 | 2,470,400 | 2,954,000 |
| Pope | 72,700 | 84,600 | 72,000 | 83,700 | 33.0 | 38.0 | 2,376,000 | 3,180,600 |
| Stevens | 132,600 | 141,700 | 131,300 | 140,500 | 34.0 | 39.0 | 4,464,200 | 5,479,500 |
| Swift | 160,300 | 168,600 | 159,100 | 165,500 | 36.0 | 36.0 | 5,727,600 | 5,958,000 |
| Traverse | 135,600 | 157,400 | 134,300 | 156,400 | 33.0 | 37.0 | 4,431,900 | 5,786,800 |
| Wilkin | 121,100 | 128,600 | 120,600 | 127,400 | 30.0 | 34.0 | 3,618,000 | 4,331,600 |
| Yellow Medicine | 178,000 | 193,900 | 175,800 | 189,400 | 38.0 | 37.0 | 6,680,400 | 7,007,800 |
| West Central | 1,460,900 | 1,572,700 | 1,447,800 | 1,552,700 | 34.2 | 36.8 | 49,538,600 | 57,098,100 |
| Benton | 14,200 | 16,500 | 14,000 | 16,000 | 27.0 | 35.0 | 378,000 | 560,000 |
| Carver | 33,600 | 38,600 | 33,400 | 37,300 | 41.0 | 40.0 | 1,369,400 | 1,492,000 |
| Kandiyohi | 109,600 | 121,000 | 109,100 | 115,800 | 36.0 | 39.0 | 3,927,600 | 4,516,200 |
| McLeod | 80,800 | 93,100 | 80,400 | 91,000 | 38.0 | 37.0 | 3,055,200 | 3,367,000 |
| Meeker | 97,600 | 112,700 | 97,200 | 110,000 | 35.0 | 36.0 | 3,402,000 | 3,960,000 |
| Morrison | -- | 5,900 | -- | 5,700 | -- | 34.0 | -- | 193,800 |
| Renville | 231,800 | 262,000 | 230,500 | 255,200 | 41.0 | 40.0 | 9,450,500 | 10,208,000 |
| Scott | 30,200 | 32,100 | 30,000 | 31,700 | 39.0 | 42.0 | 1,170,000 | 1,331,400 |
| Sherburne | 13,000 | 14,600 | 12,900 | 14,400 | 27.0 | 40.0 | 348,300 | 576,000 |
| Sibley | 119,100 | 134,000 | 118,000 | 131,500 | 43.0 | 38.0 | 5,074,000 | 4,997,000 |
| Stearns | 61,800 | 63,500 | 61,500 | 62,600 | 32.0 | 41.0 | 1,968,000 | 2,566,600 |
| Todd | 13,000 | 14,800 | 12,800 | 14,700 | 25.0 | 31.0 | 320,000 | 455,700 |
| Wadena | -- | 1,300 | -- | 1,300 | -- | 30.0 | -- | 39,000 |
| Wright | 60,700 | 62,400 | 60,400 | 61,100 | 34.0 | 38.0 | 2,053,600 | 2,321,800 |
| Other Counties | 5,200 | -- | 5,100 | -- | 22.0 | -- | 112,200 | -- |
| Central | 870,600 | 972,500 | 865,300 | 948,300 | 37.7 | 38.6 | 32,628,800 | 36,584,500 |
| Aitkin | 1,600 | 1,700 | 1,500 | 1,500 | 28.0 | 28.0 | 42,000 | 42,000 |
| Anoka | 4,300 | 4,900 | 4,200 | 4,800 | 20.0 | 28.0 | 84,000 | 134,400 |
| Chisago | 15,700 | 18,600 | 15,600 | 18,300 | 21.0 | 29.0 | 327,600 | 530,700 |
| Hennepin | 12,600 | 14,300 | 12,500 | 14,100 | 36.0 | 38.0 | 450,000 | 535,800 |
| Isanti | 21,700 | 26,200 | 21,600 | 25,800 | 21.0 | 26.0 | 453,600 | 670,800 |
| Kanabec | 4,700 | 5,500 | 4,600 | 5,400 | 20.0 | 28.0 | 92,000 | 151,200 |
| Mille Lacs | 7,600 | 8,500 | 7,500 | 7,800 | 29.0 | 32.0 | 217,500 | 249,600 |
| Pine | 5,400 | 5,300 | 5,200 | 5,200 | 23.0 | 33.0 | 119,600 | 171,600 |
| Washington | 13,600 | 15,400 | 13,500 | 15,200 | 34.0 | 41.0 | 459,000 | 623,200 |
| Other Counties | 700 | 1,400 | 700 | 1,300 | 34.0 | 34.5 | 23,800 | 44,800 |
| East Central | 87,900 | 101,800 | 86,900 | 99,400 | 26.1 | 31.7 | 2,269,100 | 3,154,100 |

1/ Counties with less than 1,000 acres planted for all purposes are not listed separately, but are combined under Other Counties or Other Districts. Counties denoted with "--" are also less than 1,000 acres and are included in Other Counties.

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SOYBEANS: ACREAGE, YIELD, AND PRODUCTION, BY COUNTY AND DISTRICT,
MINNESOTA, 1996-97 (continued)

| County and District 1/ | Planted Acreage | | Harvested Acreage | | Yield Per Harvested Acre | | Production | |
|------------------------------|-----------------|-----------|-------------------|-----------|-----------------------------|------|----------------|-------------|
| | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 |
| | <u>Acres</u> | | <u>Acres</u> | | <u>Bushels</u> | | <u>Bushels</u> | |
| Cottonwood | 160,000 | 178,700 | 158,500 | 176,900 | 43.0 | 41.0 | 6,815,500 | 7,252,900 |
| Jackson | 170,100 | 192,800 | 168,200 | 191,600 | 43.0 | 41.0 | 7,232,600 | 7,855,600 |
| Lincoln | 79,400 | 94,300 | 78,000 | 86,800 | 32.0 | 32.0 | 2,496,000 | 2,777,600 |
| Lyon | 160,200 | 175,400 | 158,900 | 171,000 | 40.0 | 37.0 | 6,356,000 | 6,327,000 |
| Murray | 166,100 | 191,100 | 163,600 | 188,300 | 38.0 | 37.0 | 6,216,800 | 6,967,100 |
| Nobles | 186,500 | 208,800 | 184,600 | 207,500 | 40.0 | 39.0 | 7,384,000 | 8,092,500 |
| Pipestone | 90,300 | 109,000 | 89,600 | 107,300 | 36.0 | 36.0 | 3,225,600 | 3,862,800 |
| Redwood | 223,200 | 245,600 | 221,600 | 243,600 | 43.0 | 41.0 | 9,528,800 | 9,987,600 |
| Rock | 110,800 | 130,400 | 110,400 | 129,600 | 42.0 | 41.0 | 4,636,800 | 5,313,600 |
| <u>Southwest</u> | 1,346,600 | 1,526,100 | 1,333,400 | 1,502,600 | 40.4 | 38.9 | 53,892,100 | 58,436,700 |
| Blue Earth | 170,400 | 181,900 | 168,500 | 179,900 | 42.0 | 42.0 | 7,077,000 | 7,555,800 |
| Brown | 134,400 | 150,100 | 133,400 | 148,800 | 44.0 | 42.0 | 5,869,600 | 6,249,600 |
| Faribault | 151,000 | 174,700 | 149,000 | 173,500 | 43.0 | 44.0 | 6,407,000 | 7,634,000 |
| Freeborn | 144,400 | 167,000 | 143,600 | 164,900 | 42.0 | 43.0 | 6,031,200 | 7,090,700 |
| Le Sueur | 75,100 | 81,900 | 74,400 | 80,500 | 39.0 | 39.0 | 2,901,600 | 3,139,500 |
| Martin | 183,500 | 210,300 | 182,200 | 208,500 | 43.0 | 44.0 | 7,834,600 | 9,174,000 |
| Nicollet | 99,000 | 111,300 | 97,700 | 109,800 | 42.0 | 43.0 | 4,103,400 | 4,721,400 |
| Rice | 50,600 | 59,700 | 50,200 | 59,200 | 39.0 | 42.0 | 1,957,800 | 2,486,400 |
| Steele | 82,000 | 93,200 | 81,300 | 92,500 | 39.0 | 42.0 | 3,170,700 | 3,885,000 |
| Waseca | 93,200 | 106,400 | 92,500 | 105,700 | 41.0 | 44.0 | 3,792,500 | 4,650,800 |
| Watsonwan | 112,900 | 127,800 | 111,300 | 126,500 | 43.0 | 43.0 | 4,785,900 | 5,439,500 |
| <u>South Central</u> | 1,296,500 | 1,464,300 | 1,284,100 | 1,449,800 | 42.0 | 42.8 | 53,931,300 | 62,026,700 |
| Dakota | 59,600 | 71,500 | 59,400 | 70,900 | 36.0 | 42.0 | 2,138,400 | 2,977,800 |
| Dodge | 83,000 | 94,700 | 82,400 | 92,800 | 39.0 | 43.0 | 3,213,600 | 3,990,400 |
| Fillmore | 71,000 | 87,300 | 70,700 | 86,700 | 41.0 | 46.0 | 2,898,700 | 3,988,200 |
| Goodhue | 70,900 | 84,400 | 70,300 | 83,500 | 40.0 | 44.0 | 2,812,000 | 3,674,000 |
| Houston | 13,900 | 19,300 | 13,800 | 19,200 | 47.0 | 42.0 | 648,600 | 806,400 |
| Mower | 155,600 | 184,800 | 155,000 | 183,600 | 41.0 | 43.0 | 6,355,000 | 7,894,800 |
| Olmsted | 53,900 | 66,000 | 53,700 | 65,600 | 41.0 | 44.0 | 2,201,700 | 2,886,400 |
| Wabasha | 25,700 | 31,000 | 25,600 | 30,800 | 44.0 | 44.0 | 1,126,400 | 1,355,200 |
| Winona | 15,800 | 21,100 | 15,700 | 20,800 | 45.0 | 43.0 | 706,500 | 894,400 |
| <u>Southeast</u> | 549,400 | 660,100 | 546,600 | 653,900 | 40.4 | 43.5 | 22,100,900 | 28,467,600 |
| <u>Other Districts</u> | 1,400 | 1,500 | 1,400 | 1,500 | 30.1 | 29.6 | 42,100 | 44,400 |
| <u>Minnesota</u> | 5,950,000 | 6,800,000 | 5,900,000 | 6,700,000 | 38.0 | 39.0 | 224,200,000 | 261,300,000 |

1/ Counties with less than 1,000 acres planted for all purposes are not listed separately, but are combined under Other Counties or Other Districts. Counties denoted with "--" are also less than 1,000 acres and are included in Other Counties.



**ALL WHEAT: ACREAGE, YIELD, AND PRODUCTION, BY COUNTY AND DISTRICT,
MINNESOTA, 1996-97**

| County and District 1/ | Planted Acreage | | Harvested Acreage | | Yield Per Harvested Acre | | Production | |
|-----------------------------|-----------------|-----------|-------------------|-----------|--------------------------|------|----------------|------------|
| | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 |
| | <u>Acres</u> | | <u>Acres</u> | | <u>Bushels</u> | | <u>Bushels</u> | |
| Becker | 75,900 | 74,600 | 74,600 | 74,000 | 45.0 | 34.0 | 3,355,200 | 2,512,500 |
| Clay | 206,400 | 174,000 | 202,800 | 172,900 | 47.0 | 35.0 | 9,529,800 | 6,050,900 |
| Clearwater | 6,700 | 6,100 | 6,500 | 5,600 | 27.4 | 22.4 | 178,000 | 125,400 |
| Kittson | 245,900 | 239,600 | 239,000 | 233,800 | 39.0 | 28.0 | 9,318,900 | 6,548,800 |
| Mahnomen | 57,200 | 55,600 | 55,900 | 54,900 | 43.9 | 36.0 | 2,454,800 | 1,976,400 |
| Marshall | 375,300 | 350,300 | 366,400 | 337,900 | 38.0 | 26.9 | 13,910,000 | 9,106,100 |
| Norman | 197,300 | 197,100 | 193,500 | 194,400 | 42.0 | 28.0 | 8,124,400 | 5,439,000 |
| Pennington | 96,000 | 94,000 | 93,900 | 89,900 | 36.0 | 27.6 | 3,376,900 | 2,485,700 |
| Polk | 402,300 | 390,800 | 395,000 | 385,500 | 41.8 | 31.1 | 16,528,100 | 11,990,300 |
| Red Lake | 56,900 | 59,300 | 55,900 | 58,400 | 35.0 | 28.5 | 1,955,500 | 1,664,000 |
| Roseau | 162,300 | 161,100 | 158,900 | 156,000 | 37.9 | 32.0 | 6,022,600 | 4,984,400 |
| <u>Northwest</u> | 1,882,200 | 1,802,500 | 1,842,400 | 1,763,300 | 40.6 | 30.0 | 74,754,200 | 52,883,500 |
| Beltrami | 7,100 | 8,500 | 6,700 | 8,400 | 33.1 | 27.1 | 221,600 | 227,400 |
| Koochiching | 1,100 | 1,000 | 1,100 | 1,000 | 35.0 | 28.2 | 38,500 | 28,200 |
| Lake of the Woods | 16,100 | 17,800 | 15,800 | 17,500 | 46.5 | 38.0 | 734,600 | 665,000 |
| Other Counties | 600 | 700 | 600 | 700 | 24.0 | 24.0 | 14,400 | 16,800 |
| <u>North Central</u> | 24,900 | 28,000 | 24,200 | 27,600 | 41.7 | 34.0 | 1,009,100 | 937,400 |
| Other Counties | 600 | 700 | 600 | 700 | 25.0 | 22.0 | 15,000 | 15,400 |
| <u>Northeast</u> | 600 | 700 | 600 | 700 | 25.0 | 22.0 | 15,000 | 15,400 |
| Big Stone | 36,000 | 38,200 | 35,400 | 37,400 | 41.0 | 36.0 | 1,451,200 | 1,345,600 |
| Chippewa | 6,300 | 5,900 | 6,200 | 5,500 | 51.0 | 32.0 | 316,200 | 176,000 |
| Douglas | 19,400 | 21,400 | 19,100 | 21,300 | 44.0 | 32.0 | 839,600 | 682,000 |
| Grant | 87,000 | 82,600 | 85,500 | 81,900 | 49.9 | 38.0 | 4,269,300 | 3,112,200 |
| Lac Qui Parle | 26,600 | 26,300 | 26,200 | 26,200 | 48.0 | 34.0 | 1,257,600 | 889,800 |
| Otter Tail | 73,200 | 72,600 | 72,000 | 71,700 | 44.0 | 35.0 | 3,167,600 | 2,508,000 |
| Pope | 17,800 | 19,700 | 17,500 | 19,100 | 41.0 | 32.0 | 717,400 | 611,800 |
| Stevens | 39,200 | 47,300 | 38,500 | 47,000 | 43.0 | 40.0 | 1,655,500 | 1,879,500 |
| Swift | 11,300 | 13,100 | 11,000 | 12,500 | 38.0 | 33.0 | 418,000 | 412,900 |
| Traverse | 87,900 | 86,600 | 86,500 | 86,100 | 47.0 | 40.0 | 4,062,600 | 3,442,000 |
| Wilkin | 175,300 | 168,600 | 172,300 | 167,700 | 46.0 | 38.9 | 7,921,200 | 6,527,400 |
| Yellow Medicine | 13,600 | 11,700 | 13,400 | 11,600 | 43.0 | 36.9 | 576,200 | 428,200 |
| <u>West Central</u> | 593,600 | 594,000 | 583,600 | 588,000 | 45.7 | 37.4 | 26,652,400 | 22,015,400 |
| Carver | 1,800 | 1,900 | 1,800 | 1,700 | 40.6 | 32.1 | 73,000 | 54,600 |
| Kandiyohi | 6,200 | 6,300 | 6,100 | 6,000 | 51.0 | 36.0 | 311,100 | 215,800 |
| McLeod | 4,300 | 4,400 | 4,100 | 4,200 | 51.8 | 36.9 | 212,400 | 154,800 |
| Meeker | 5,600 | 6,200 | 5,500 | 6,000 | 42.9 | 29.9 | 236,100 | 179,500 |
| Renville | 8,900 | 6,800 | 8,800 | 6,700 | 48.8 | 41.0 | 429,200 | 274,700 |
| Scott | 1,300 | 1,700 | 1,300 | 1,400 | 39.7 | 35.6 | 51,600 | 49,800 |
| Sibley | 4,600 | 3,900 | 4,400 | 3,600 | 53.2 | 39.9 | 234,000 | 143,500 |
| Stearns | 4,500 | 4,400 | 4,300 | 4,200 | 38.0 | 35.0 | 163,400 | 147,000 |
| Todd | 4,300 | 4,600 | 4,100 | 4,200 | 39.9 | 23.6 | 163,400 | 99,100 |
| Wright | 3,200 | 3,200 | 3,200 | 3,100 | 40.0 | 34.5 | 127,900 | 106,900 |
| Other Counties | 2,100 | 2,600 | 2,100 | 2,500 | 38.4 | 27.1 | 80,600 | 67,800 |
| <u>Central</u> | 46,800 | 46,000 | 45,700 | 43,600 | 45.6 | 34.3 | 2,082,700 | 1,493,500 |

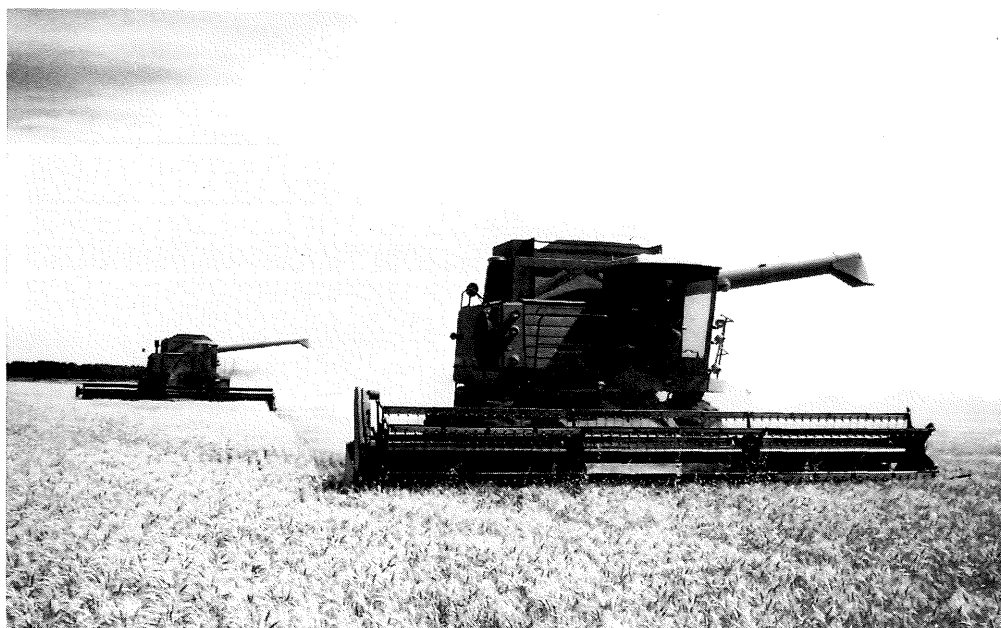
1/ Counties with less than 1,000 acres planted for all purposes are not listed separately, but are combined under Other Counties. Counties denoted with "--" are also less than 1,000 acres and are included in Other Counties.

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**ALL WHEAT: ACREAGE, YIELD, AND PRODUCTION, BY COUNTY AND DISTRICT,
MINNESOTA, 1996-97 (continued)**

| County and District 1/ | Planted Acreage | | Harvested Acreage | | Yield Per Harvested Acre | | Production | |
|------------------------------|-----------------|-----------|-------------------|-----------|-----------------------------|------|-------------|------------|
| | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 |
| | Acres | | Acres | | Bushels | | Bushels | |
| Aitkin | 2,100 | 2,600 | 2,000 | 2,500 | 35.0 | 27.0 | 70,000 | 67,500 |
| Hennepin | -- | 1,600 | -- | 1,400 | -- | 30.0 | -- | 42,000 |
| Isanti | -- | 1,000 | -- | 1,000 | -- | 27.1 | -- | 27,100 |
| Other Counties | 3,400 | 2,400 | 3,300 | 2,200 | 35.2 | 28.0 | 116,300 | 61,700 |
| <u>East Central</u> | 5,500 | 7,600 | 5,300 | 7,100 | 35.2 | 27.9 | 186,300 | 198,300 |
| Lincoln | 9,700 | 10,700 | 9,500 | 6,400 | 49.0 | 34.0 | 465,500 | 217,800 |
| Lyon | 6,500 | 5,300 | 6,400 | 4,300 | 49.0 | 39.0 | 313,600 | 167,700 |
| Murray | 1,100 | 1,000 | 1,100 | 1,000 | 45.0 | 33.0 | 49,500 | 33,000 |
| Redwood | 3,800 | 2,900 | 3,700 | 2,700 | 50.0 | 36.0 | 185,000 | 97,200 |
| Other Counties | 2,500 | 2,600 | 2,300 | 2,300 | 48.2 | 34.8 | 110,800 | 80,000 |
| <u>Southwest</u> | 23,600 | 22,500 | 23,000 | 16,700 | 48.9 | 35.7 | 1,124,400 | 595,700 |
| Blue Earth | 1,200 | -- | 1,200 | -- | 48.0 | -- | 57,600 | -- |
| Brown | 2,800 | 2,900 | 2,700 | 2,800 | 47.6 | 42.0 | 128,500 | 117,600 |
| Le Sueur | 2,600 | 2,900 | 2,500 | 2,800 | 43.1 | 45.0 | 107,700 | 126,000 |
| Nicollet | 1,800 | 1,800 | 1,700 | 1,600 | 52.1 | 39.0 | 88,500 | 62,400 |
| Rice | 1,000 | 1,000 | 1,000 | 1,000 | 38.6 | 39.5 | 38,600 | 39,500 |
| Other Counties | 2,500 | 3,700 | 2,500 | 3,700 | 48.7 | 42.6 | 121,800 | 157,600 |
| <u>South Central</u> | 11,900 | 12,300 | 11,600 | 11,900 | 46.8 | 42.3 | 542,700 | 503,100 |
| Dakota | 2,600 | 2,700 | 2,400 | 2,500 | 36.0 | 38.4 | 86,400 | 96,100 |
| Other Counties | 3,300 | 3,700 | 3,200 | 3,600 | 40.3 | 42.1 | 128,800 | 151,600 |
| <u>Southeast</u> | 5,900 | 6,400 | 5,600 | 6,100 | 38.4 | 40.6 | 215,200 | 247,700 |
| <u>Minnesota</u> | 2,595,000 | 2,520,000 | 2,542,000 | 2,465,000 | 41.9 | 32.0 | 106,582,000 | 78,890,000 |

1/ Counties with less than 1,000 acres planted for all purposes are not listed separately, but are combined under Other Counties. Counties denoted with "--" are also less than 1,000 acres and are included in Other Counties.



SPRING WHEAT: ACREAGE, YIELD, AND PRODUCTION, BY COUNTY AND DISTRICT,
MINNESOTA, 1996-97

| County and District 1/ | Planted Acreage | | Harvested Acreage | | Yield Per Harvested Acre | | Production | |
|------------------------------|-----------------|-----------|-------------------|-----------|-----------------------------|------|----------------|------------|
| | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 |
| | <u>Acres</u> | | <u>Acres</u> | | <u>Bushels</u> | | <u>Bushels</u> | |
| Becker | 75,500 | 73,800 | 74,300 | 73,300 | 45.0 | 34.0 | 3,343,500 | 2,492,200 |
| Clay | 204,600 | 173,000 | 201,000 | 171,900 | 47.0 | 35.0 | 9,447,000 | 6,016,500 |
| Clearwater | 5,700 | 4,400 | 5,600 | 4,300 | 26.0 | 21.0 | 145,600 | 90,300 |
| Kittson | 244,700 | 238,600 | 237,800 | 232,800 | 39.0 | 28.0 | 9,274,200 | 6,518,400 |
| Mahnomen | 55,900 | 53,600 | 54,700 | 53,000 | 44.0 | 36.0 | 2,406,800 | 1,908,000 |
| Marshall | 370,200 | 342,600 | 361,500 | 330,300 | 38.0 | 27.0 | 13,737,000 | 8,918,100 |
| Norman | 195,900 | 192,900 | 192,200 | 190,200 | 42.0 | 28.0 | 8,072,400 | 5,325,600 |
| Pennington | 93,400 | 86,600 | 91,900 | 82,600 | 36.0 | 27.0 | 3,308,400 | 2,230,200 |
| Polk | 395,700 | 377,000 | 388,800 | 371,900 | 42.0 | 31.0 | 16,329,600 | 11,528,900 |
| Red Lake | 54,800 | 54,400 | 53,900 | 53,600 | 35.0 | 28.0 | 1,886,500 | 1,500,800 |
| Roseau | 156,600 | 150,400 | 153,700 | 148,400 | 38.0 | 32.0 | 5,840,600 | 4,748,800 |
| Northwest | 1,853,000 | 1,747,300 | 1,815,400 | 1,712,300 | 40.6 | 29.9 | 73,791,600 | 51,277,800 |
| Beltrami | 6,500 | 8,300 | 6,200 | 8,200 | 33.0 | 27.0 | 204,600 | 221,400 |
| Koochiching | 1,100 | -- | 1,100 | -- | 35.0 | -- | 38,500 | -- |
| Lake of the Woods | 14,500 | 15,100 | 14,200 | 14,900 | 47.0 | 38.0 | 667,400 | 566,200 |
| Other Counties | 600 | 1,600 | 600 | 1,600 | 24.0 | 26.3 | 14,400 | 42,000 |
| North Central | 22,700 | 25,000 | 22,100 | 24,700 | 41.9 | 33.6 | 924,900 | 829,600 |
| Other Counties | 600 | 700 | 600 | 700 | 25.0 | 22.0 | 15,000 | 15,400 |
| Northeast | 600 | 700 | 600 | 700 | 25.0 | 22.0 | 15,000 | 15,400 |
| Big Stone | 35,800 | 38,000 | 35,200 | 37,200 | 41.0 | 36.0 | 1,443,200 | 1,339,200 |
| Chippewa | 6,300 | 5,900 | 6,200 | 5,500 | 51.0 | 32.0 | 316,200 | 176,000 |
| Douglas | 19,200 | 21,000 | 18,900 | 20,900 | 44.0 | 32.0 | 831,600 | 668,800 |
| Grant | 85,100 | 82,600 | 83,600 | 81,900 | 50.0 | 38.0 | 4,180,000 | 3,112,200 |
| Lac Qui Parle | 26,600 | 26,100 | 26,200 | 26,000 | 48.0 | 34.0 | 1,257,600 | 884,000 |
| Otter Tail | 73,100 | 72,000 | 71,900 | 71,200 | 44.0 | 35.0 | 3,163,600 | 2,492,000 |
| Pope | 17,700 | 19,600 | 17,400 | 19,000 | 41.0 | 32.0 | 713,400 | 608,000 |
| Stevens | 39,200 | 47,200 | 38,500 | 46,900 | 43.0 | 40.0 | 1,655,500 | 1,876,000 |
| Swift | 11,300 | 12,900 | 11,000 | 12,300 | 38.0 | 33.0 | 418,000 | 405,900 |
| Traverse | 87,200 | 86,400 | 85,800 | 85,900 | 47.0 | 40.0 | 4,032,600 | 3,436,000 |
| Wilkin | 172,600 | 165,900 | 169,700 | 165,100 | 46.0 | 39.0 | 7,806,200 | 6,438,900 |
| Yellow Medicine | 13,600 | 11,400 | 13,400 | 11,300 | 43.0 | 37.0 | 576,200 | 418,100 |
| West Central | 587,700 | 589,000 | 577,800 | 583,200 | 45.7 | 37.5 | 26,394,100 | 21,855,100 |
| Carver | 1,400 | 1,600 | 1,400 | 1,500 | 41.0 | 32.0 | 57,400 | 48,000 |
| Kandiyohi | 6,200 | 6,200 | 6,100 | 5,900 | 51.0 | 36.0 | 311,100 | 212,400 |
| McLeod | 3,600 | 3,700 | 3,500 | 3,600 | 54.0 | 37.0 | 189,000 | 133,200 |
| Meeker | 5,500 | 6,100 | 5,400 | 5,900 | 43.0 | 30.0 | 232,200 | 177,000 |
| Renville | 8,700 | 6,700 | 8,600 | 6,600 | 49.0 | 41.0 | 421,400 | 270,600 |
| Scott | -- | 1,400 | -- | 1,100 | -- | 33.0 | -- | 36,300 |
| Sibley | 3,600 | 3,400 | 3,500 | 3,100 | 54.0 | 40.0 | 189,000 | 124,000 |
| Stearns | 4,500 | 4,400 | 4,300 | 4,200 | 38.0 | 35.0 | 163,400 | 147,000 |
| Todd | 3,600 | 4,100 | 3,500 | 3,700 | 40.0 | 23.0 | 140,000 | 85,100 |
| Wright | 3,100 | 3,000 | 3,100 | 2,900 | 40.0 | 35.0 | 124,000 | 101,500 |
| Other Counties | 2,200 | 1,600 | 2,200 | 1,500 | 38.8 | 25.9 | 85,400 | 38,800 |
| Central | 42,400 | 42,200 | 41,600 | 40,000 | 46.0 | 34.3 | 1,912,900 | 1,373,900 |

1/ Counties with less than 1,000 acres planted for all purposes are not listed separately, but are combined under Other Counties.
Counties denoted with "--" are also less than 1,000 acres and are included in Other Counties.

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SPRING WHEAT: ACREAGE, YIELD, AND PRODUCTION, BY COUNTY AND DISTRICT,
MINNESOTA, 1996-97 (continued)

| County and District 1/ | Planted Acreage | | Harvested Acreage | | Yield Per Harvested Acre | | Production | |
|------------------------|-----------------|-----------|-------------------|-----------|--------------------------|------|----------------|------------|
| | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 |
| | <u>Acres</u> | | <u>Acres</u> | | <u>Bushels</u> | | <u>Bushels</u> | |
| Aitkin | 2,100 | 2,600 | 2,000 | 2,500 | 35.0 | 27.0 | 70,000 | 67,500 |
| Hennepin | -- | 1,200 | -- | 1,100 | -- | 30.0 | -- | 33,000 |
| Other Counties | 2,500 | 3,100 | 2,500 | 2,900 | 35.0 | 28.1 | 87,500 | 81,600 |
| <u>East Central</u> | 4,600 | 6,900 | 4,500 | 6,500 | 35.0 | 28.0 | 157,500 | 182,100 |
| Lincoln | 9,700 | 10,600 | 9,500 | 6,300 | 49.0 | 34.0 | 465,500 | 214,200 |
| Lyon | 6,500 | 5,300 | 6,400 | 4,300 | 49.0 | 39.0 | 313,600 | 167,700 |
| Murray | 1,100 | 1,000 | 1,100 | 1,000 | 45.0 | 33.0 | 49,500 | 33,000 |
| Redwood | 3,800 | 2,900 | 3,700 | 2,700 | 50.0 | 36.0 | 185,000 | 97,200 |
| Other Counties | 2,400 | 2,600 | 2,200 | 2,300 | 48.7 | 34.8 | 107,200 | 80,000 |
| <u>Southwest</u> | 23,500 | 22,400 | 22,900 | 16,600 | 48.9 | 35.7 | 1,120,800 | 592,100 |
| Blue Earth | 1,100 | -- | 1,100 | -- | 49.0 | -- | 53,900 | -- |
| Brown | 2,700 | 2,800 | 2,600 | 2,700 | 48.0 | 42.0 | 124,800 | 113,400 |
| Le Sueur | 1,900 | 2,500 | 1,900 | 2,400 | 45.0 | 45.0 | 85,500 | 108,000 |
| Nicollet | 1,700 | 1,700 | 1,600 | 1,600 | 53.0 | 39.0 | 84,800 | 62,400 |
| Other Counties | 3,300 | 4,500 | 3,300 | 4,500 | 46.4 | 42.1 | 153,000 | 189,400 |
| <u>South Central</u> | 10,700 | 11,500 | 10,500 | 11,200 | 47.8 | 42.3 | 502,000 | 473,200 |
| Dakota | 1,700 | 1,900 | 1,600 | 1,800 | 37.0 | 39.0 | 59,200 | 70,200 |
| Other Counties | 3,100 | 3,100 | 3,000 | 3,000 | 40.7 | 43.5 | 122,000 | 130,600 |
| <u>Southeast</u> | 4,800 | 5,000 | 4,600 | 4,800 | 39.4 | 41.8 | 181,200 | 200,800 |
| <u>Minnesota</u> | 2,550,000 | 2,450,000 | 2,500,000 | 2,400,000 | 42.0 | 32.0 | 105,000,000 | 76,800,000 |

1/ Counties with less than 1,000 acres planted for all purposes are not listed separately, but are combined under Other Counties. Counties denoted with "--" are also less than 1,000 acres and are included in Other Counties.



**OATS: ACREAGE, YIELD, AND PRODUCTION, BY COUNTY AND DISTRICT,
MINNESOTA, 1996-97**

| County and District 1/ | Planted Acreage | | Harvested Acreage | | Yield Per Harvested Acre | | Production | |
|------------------------------|-----------------|---------|-------------------|--------|-----------------------------|------|----------------|-----------|
| | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 |
| | <u>Acres</u> | | <u>Acres</u> | | <u>Bushels</u> | | <u>Bushels</u> | |
| Becker | 5,700 | 7,000 | 4,900 | 6,300 | 46.0 | 49.0 | 225,400 | 308,700 |
| Clay | 2,300 | 2,400 | 2,000 | 2,200 | 59.0 | 61.0 | 118,000 | 134,200 |
| Clearwater | 5,200 | 6,600 | 4,300 | 5,800 | 51.0 | 53.0 | 219,300 | 307,400 |
| Kittson | 4,800 | 8,800 | 4,500 | 7,000 | 54.0 | 56.0 | 243,000 | 392,000 |
| Mahnomen | 2,200 | 2,300 | 1,800 | 2,100 | 69.0 | 61.0 | 124,200 | 128,100 |
| Marshall | 6,200 | 10,900 | 6,000 | 9,600 | 50.0 | 57.0 | 300,000 | 547,200 |
| Norman | 2,800 | 3,500 | 2,300 | 3,300 | 72.0 | 58.0 | 165,600 | 191,400 |
| Pennington | 7,200 | 10,800 | 7,100 | 10,400 | 61.0 | 53.0 | 433,100 | 551,200 |
| Polk | 6,200 | 7,000 | 5,700 | 6,200 | 59.0 | 58.0 | 336,300 | 359,600 |
| Red Lake | 5,100 | 5,600 | 4,900 | 5,400 | 73.0 | 65.0 | 357,700 | 351,000 |
| Roseau | 10,300 | 17,200 | 10,100 | 15,900 | 59.0 | 55.0 | 595,900 | 874,500 |
| Northwest | 58,000 | 82,100 | 53,600 | 74,200 | 58.2 | 55.9 | 3,118,500 | 4,145,300 |
| Beltrami | 5,400 | 6,600 | 4,300 | 4,900 | 53.0 | 49.0 | 227,900 | 240,100 |
| Cass | 1,300 | 1,900 | 800 | 700 | 35.0 | 52.0 | 28,000 | 36,400 |
| Hubbard | 1,800 | 2,000 | 1,000 | 800 | 35.0 | 48.0 | 35,000 | 38,400 |
| Itasca | 1,500 | 2,000 | 1,400 | 800 | 69.0 | 46.0 | 96,600 | 36,800 |
| Koochiching | 1,300 | 1,600 | 1,100 | 800 | 66.0 | 51.0 | 72,600 | 40,800 |
| Lake of the Woods | 2,500 | 3,600 | 2,300 | 2,900 | 69.0 | 67.0 | 158,700 | 194,300 |
| North Central | 13,800 | 17,700 | 10,900 | 10,900 | 56.8 | 53.8 | 618,800 | 586,800 |
| St Louis | 1,100 | 2,200 | 900 | 1,700 | 61.0 | 55.0 | 54,900 | 93,500 |
| Northeast | 1,100 | 2,200 | 900 | 1,700 | 61.0 | 55.0 | 54,900 | 93,500 |
| Douglas | 8,400 | 9,100 | 8,200 | 8,600 | 44.0 | 53.0 | 360,800 | 455,800 |
| Otter Tail | 28,100 | 30,800 | 25,500 | 26,400 | 49.0 | 55.0 | 1,249,500 | 1,452,000 |
| Pope | 5,400 | 6,600 | 4,800 | 4,500 | 45.0 | 52.0 | 216,000 | 234,000 |
| Swift | 1,600 | 2,700 | 1,500 | 2,600 | 55.0 | 71.0 | 82,500 | 184,600 |
| Other Counties | 4,100 | 5,100 | 3,100 | 3,600 | 53.2 | 63.6 | 164,900 | 229,000 |
| West Central | 47,600 | 54,300 | 43,100 | 45,700 | 48.1 | 55.9 | 2,073,700 | 2,555,400 |
| Benton | 3,800 | 5,600 | 2,800 | 3,500 | 37.0 | 45.0 | 103,600 | 157,500 |
| Carver | 3,800 | 4,900 | 3,500 | 3,500 | 59.0 | 62.0 | 206,500 | 217,000 |
| Kandiyohi | 4,400 | 6,200 | 4,000 | 4,800 | 52.0 | 59.0 | 208,000 | 283,200 |
| McLeod | 2,900 | 4,400 | 2,600 | 3,500 | 67.0 | 67.0 | 174,200 | 234,500 |
| Meeker | 2,800 | 3,500 | 2,600 | 2,700 | 53.0 | 51.0 | 137,800 | 137,700 |
| Morrison | 7,900 | 9,000 | 7,000 | 7,000 | 49.0 | 59.0 | 343,000 | 413,000 |
| Renville | -- | 1,600 | -- | 1,200 | -- | 78.0 | -- | 93,600 |
| Scott | 2,500 | 3,800 | 1,500 | 2,400 | 65.0 | 56.0 | 97,500 | 134,400 |
| Sherburne | -- | 1,000 | -- | 600 | -- | 37.0 | -- | 22,200 |
| Sibley | 2,900 | 3,100 | 2,500 | 1,900 | 69.0 | 66.0 | 172,500 | 125,400 |
| Stearns | 28,800 | 31,600 | 26,500 | 24,600 | 55.0 | 60.0 | 1,457,500 | 1,476,000 |
| Todd | 13,000 | 18,300 | 11,600 | 14,200 | 40.0 | 48.0 | 464,000 | 681,600 |
| Wadena | 3,500 | 5,000 | 2,700 | 4,600 | 30.0 | 45.0 | 81,000 | 207,000 |
| Wright | 4,900 | 7,000 | 3,800 | 4,700 | 63.0 | 48.0 | 239,400 | 225,600 |
| Other Counties | 1,900 | -- | 1,300 | -- | 61.6 | -- | 80,100 | -- |
| Central | 83,100 | 105,000 | 72,400 | 79,200 | 52.0 | 55.7 | 3,765,100 | 4,408,700 |

1/ Counties with less than 1,000 acres planted for all purposes are not listed separately, but are combined under Other Counties. Counties denoted with "--" are also less than 1,000 acres and are included in Other Counties.

--continued

OATS: ACREAGE, YIELD, AND PRODUCTION, BY COUNTY AND DISTRICT,
MINNESOTA, 1996-97 (continued)

| County and District 1/ | Planted Acreage | | Harvested Acreage | | Yield Per Harvested Acre | | Production | |
|------------------------------|-----------------|---------|-------------------|---------|-----------------------------|------|------------|------------|
| | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 |
| | Acres | | Acres | | Bushels | | Bushels | |
| Aitkin | 2,100 | 1,900 | 1,700 | 1,100 | 52.0 | 44.0 | 88,400 | 48,400 |
| Chisago | 1,500 | 2,800 | 1,200 | 1,500 | 49.0 | 35.0 | 58,800 | 52,500 |
| Crow Wing | 2,500 | 2,800 | 2,200 | 2,100 | 49.0 | 48.0 | 107,800 | 100,800 |
| Hennepin | 1,200 | 1,800 | 1,000 | 700 | 66.0 | 46.0 | 66,000 | 32,200 |
| Isanti | -- | 1,500 | -- | 900 | -- | 48.0 | -- | 43,200 |
| Kanabec | 1,400 | 3,000 | 1,100 | 1,900 | 50.0 | 53.0 | 55,000 | 100,700 |
| Millie Lacs | 2,100 | 2,700 | 1,800 | 2,000 | 49.0 | 49.0 | 88,200 | 98,000 |
| Pine | 2,300 | 4,500 | 1,400 | 2,800 | 48.0 | 49.0 | 67,200 | 137,200 |
| Washington | 1,500 | 2,100 | 1,300 | 1,300 | 53.0 | 44.0 | 68,900 | 57,200 |
| Other Counties | 1,600 | 1,100 | 1,100 | 600 | 45.6 | 47.3 | 50,200 | 28,400 |
| East Central | 16,200 | 24,200 | 12,800 | 14,900 | 50.8 | 46.9 | 650,500 | 698,600 |
| Cottonwood | -- | 1,100 | -- | 700 | -- | 67.0 | -- | 46,900 |
| Jackson | -- | 1,200 | -- | 800 | -- | 62.0 | -- | 49,600 |
| Lincoln | 2,800 | 3,300 | 2,100 | 2,900 | 72.0 | 66.0 | 151,200 | 191,400 |
| Lyon | 2,700 | 3,000 | 2,300 | 2,600 | 78.0 | 70.0 | 179,400 | 182,000 |
| Murray | 3,800 | 4,000 | 3,300 | 3,200 | 65.0 | 61.0 | 214,500 | 195,200 |
| Nobles | 3,300 | 3,800 | 2,800 | 3,400 | 65.0 | 75.0 | 182,000 | 255,000 |
| Pipestone | 4,900 | 4,500 | 3,300 | 3,200 | 65.0 | 55.0 | 214,500 | 176,000 |
| Redwood | 1,600 | 1,800 | 1,200 | 900 | 55.0 | 74.0 | 66,000 | 66,600 |
| Rock | 2,800 | 2,400 | 1,600 | 1,900 | 84.0 | 72.0 | 134,400 | 136,800 |
| Other Counties | 1,800 | -- | 1,000 | -- | 53.0 | -- | 53,000 | -- |
| Southwest | 23,700 | 25,100 | 17,600 | 19,600 | 67.9 | 66.3 | 1,195,000 | 1,299,500 |
| Brown | 3,600 | 4,900 | 2,800 | 2,800 | 65.0 | 56.0 | 182,000 | 156,800 |
| Faribault | 1,100 | 1,200 | 700 | 1,000 | 66.0 | 76.0 | 46,200 | 76,000 |
| Freeborn | 2,400 | 3,200 | 1,900 | 2,800 | 65.0 | 70.0 | 123,500 | 196,000 |
| Le Sueur | 1,500 | 2,200 | 900 | 800 | 67.0 | 60.0 | 60,300 | 48,000 |
| Martin | 1,400 | 1,900 | 1,200 | 1,600 | 50.0 | 74.0 | 60,000 | 118,400 |
| Nicollet | 2,100 | 2,700 | 1,200 | 900 | 72.0 | 68.0 | 86,400 | 61,200 |
| Rice | 2,800 | 3,900 | 2,100 | 2,700 | 71.0 | 77.0 | 149,100 | 207,900 |
| Steele | 3,300 | 3,500 | 3,100 | 3,000 | 63.0 | 72.0 | 195,300 | 216,000 |
| Waseca | 1,200 | 1,300 | 900 | 1,000 | 60.0 | 73.0 | 54,000 | 73,000 |
| Other Counties | 1,700 | 2,000 | 1,500 | 1,600 | 60.7 | 61.8 | 91,000 | 98,800 |
| South Central | 21,100 | 26,800 | 16,300 | 18,200 | 64.3 | 68.8 | 1,047,800 | 1,252,100 |
| Dakota | 1,700 | 2,600 | 1,600 | 2,300 | 57.0 | 70.0 | 91,200 | 161,000 |
| Dodge | 2,900 | 4,300 | 1,900 | 2,400 | 54.0 | 60.0 | 102,600 | 144,000 |
| Fillmore | 9,800 | 12,100 | 8,200 | 7,000 | 62.0 | 67.0 | 508,400 | 469,000 |
| Goodhue | 7,900 | 10,900 | 5,500 | 7,500 | 65.0 | 65.0 | 357,500 | 487,500 |
| Houston | 7,100 | 10,300 | 4,900 | 5,200 | 57.0 | 62.0 | 279,300 | 322,400 |
| Mower | 3,000 | 4,200 | 2,700 | 3,200 | 63.0 | 67.0 | 170,100 | 214,400 |
| Olmsted | 6,300 | 8,600 | 5,000 | 6,200 | 57.0 | 58.0 | 285,000 | 359,600 |
| Wabasha | 7,600 | 8,000 | 6,800 | 5,400 | 65.0 | 69.0 | 442,000 | 372,600 |
| Winona | 9,100 | 11,600 | 5,800 | 6,400 | 62.0 | 64.0 | 359,600 | 409,600 |
| Southeast | 55,400 | 72,600 | 42,400 | 45,600 | 61.2 | 64.5 | 2,595,700 | 2,940,100 |
| Minnesota | 320,000 | 410,000 | 270,000 | 310,000 | 56.0 | 58.0 | 15,120,000 | 17,980,000 |

1/ Counties with less than 1,000 acres planted for all purposes are not listed separately, but are combined under Other Counties. Counties denoted with "--" are also less than 1,000 acres and are included in Other Counties.

ALL HAY: ACREAGE, YIELD, AND PRODUCTION, BY COUNTY AND DISTRICT,
MINNESOTA, 1996-97

| County and District 1/ | Harvested Acreage | | Yield Per Harvested Acre | | Production | |
|------------------------------|-------------------|---------|-----------------------------|------|-------------|-----------|
| | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 |
| | <u>Acres</u> | | <u>Tons</u> | | <u>Tons</u> | |
| Becker | 41,300 | 44,700 | 2.2 | 2.2 | 88,900 | 99,800 |
| Clay | 24,000 | 24,700 | 2.3 | 2.5 | 54,300 | 62,900 |
| Clearwater | 40,900 | 51,300 | 1.9 | 2.0 | 77,300 | 103,200 |
| Kittson | 38,100 | 37,000 | 1.6 | 1.5 | 62,100 | 54,000 |
| Mahnomen | 21,700 | 23,900 | 2.5 | 2.2 | 53,600 | 52,500 |
| Marshall | 51,400 | 57,400 | 2.3 | 1.9 | 116,400 | 106,900 |
| Norman | 18,500 | 19,800 | 2.9 | 2.9 | 53,400 | 57,200 |
| Pennington | 34,300 | 35,500 | 2.1 | 2.5 | 72,800 | 90,000 |
| Polk | 52,000 | 61,100 | 2.4 | 2.3 | 125,100 | 138,900 |
| Red Lake | 24,300 | 24,500 | 2.7 | 2.2 | 66,300 | 54,800 |
| Roseau | 76,500 | 95,400 | 2.1 | 1.7 | 159,300 | 160,900 |
| Northwest | 423,000 | 475,300 | 2.2 | 2.1 | 929,500 | 981,100 |
| Beltrami | 48,800 | 53,400 | 2.2 | 2.0 | 108,100 | 109,300 |
| Cass | 42,400 | 58,100 | 1.6 | 1.9 | 68,500 | 109,100 |
| Hubbard | 18,400 | 18,100 | 1.6 | 1.7 | 29,800 | 31,500 |
| Itasca | 21,200 | 23,700 | 1.9 | 1.4 | 39,600 | 32,400 |
| Koochiching | 12,100 | 15,600 | 1.5 | 1.2 | 18,500 | 19,200 |
| Lake of the Woods | 21,000 | 22,700 | 1.7 | 1.7 | 35,100 | 37,600 |
| North Central | 163,900 | 191,600 | 1.8 | 1.8 | 299,600 | 339,100 |
| St Louis | 32,200 | 37,000 | 1.5 | 1.4 | 49,000 | 52,600 |
| Other Counties | 1,000 | 2,600 | 1.1 | 1.8 | 1,100 | 4,800 |
| Northeast | 33,200 | 39,600 | 1.5 | 1.4 | 50,100 | 57,400 |
| Big Stone | 7,200 | 6,100 | 2.5 | 2.9 | 17,700 | 17,700 |
| Chippewa | 6,900 | 6,800 | 3.3 | 3.3 | 22,900 | 22,700 |
| Douglas | 33,500 | 33,200 | 2.8 | 3.3 | 94,900 | 108,900 |
| Grant | 8,500 | 9,100 | 2.3 | 3.1 | 19,900 | 28,400 |
| Lac Qui Parle | 11,300 | 13,000 | 3.5 | 3.3 | 39,400 | 42,900 |
| Otter Tail | 137,600 | 130,700 | 2.5 | 2.9 | 344,100 | 374,900 |
| Pope | 35,100 | 32,200 | 2.7 | 2.9 | 95,900 | 92,000 |
| Stevens | 11,500 | 11,000 | 2.8 | 2.6 | 31,700 | 28,800 |
| Swift | 11,800 | 14,100 | 3.1 | 3.1 | 36,500 | 43,300 |
| Traverse | 9,500 | 10,600 | 2.7 | 2.2 | 25,800 | 22,800 |
| Wilkin | 6,800 | 6,400 | 1.9 | 3.1 | 12,600 | 19,600 |
| Yellow Medicine | 10,500 | 11,000 | 2.6 | 3.0 | 27,700 | 33,500 |
| West Central | 290,200 | 284,200 | 2.7 | 2.9 | 769,100 | 835,500 |
| Benton | 29,600 | 25,500 | 2.6 | 2.9 | 77,700 | 74,000 |
| Carver | 24,300 | 26,700 | 3.6 | 3.8 | 86,500 | 102,000 |
| Kandiyohi | 26,300 | 27,900 | 3.1 | 3.1 | 80,600 | 87,600 |
| McLeod | 15,700 | 17,700 | 4.3 | 3.7 | 66,900 | 66,000 |
| Meeker | 24,100 | 23,000 | 3.6 | 3.8 | 87,100 | 86,500 |
| Morrison | 72,400 | 71,200 | 2.2 | 2.7 | 162,600 | 194,500 |
| Renville | 12,300 | 12,600 | 3.6 | 3.1 | 44,100 | 39,200 |
| Scott | 13,700 | 16,600 | 4.0 | 3.9 | 54,600 | 64,700 |
| Sherburne | 9,800 | 10,400 | 2.4 | 2.6 | 23,700 | 27,500 |
| Sibley | 13,300 | 13,900 | 4.3 | 3.8 | 57,100 | 52,400 |
| Stearns | 115,200 | 113,500 | 3.1 | 3.8 | 362,700 | 428,400 |
| Todd | 82,400 | 85,300 | 2.8 | 2.6 | 233,100 | 224,500 |
| Wadena | 29,500 | 35,100 | 2.4 | 2.1 | 71,900 | 73,600 |
| Wright | 31,600 | 36,800 | 2.7 | 3.5 | 85,100 | 129,600 |
| Central | 500,200 | 516,200 | 3.0 | 3.2 | 1,493,700 | 1,650,500 |

1/ Counties with less than 1,000 acres planted for all purposes are not listed separately, but are combined under Other Counties.

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ALL HAY: ACREAGE, YIELD, AND PRODUCTION, BY COUNTY AND DISTRICT,
MINNESOTA, 1996-97 (continued)

| County and District 1/ | Harvested Acreage | | Yield Per Harvested Acre | | Production | |
|------------------------------|-------------------|-----------|-----------------------------|------|-------------|-----------|
| | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 |
| | <u>Acres</u> | | <u>Tons</u> | | <u>Tons</u> | |
| Aitkin | 25,100 | 34,700 | 1.6 | 1.7 | 40,700 | 60,200 |
| Anoka | 8,500 | 8,800 | 2.0 | 2.1 | 16,800 | 18,800 |
| Carlton | 19,600 | 20,900 | 1.8 | 1.4 | 34,900 | 29,700 |
| Chisago | 22,000 | 24,600 | 2.6 | 2.1 | 56,300 | 52,600 |
| Crow Wing | 27,300 | 32,000 | 2.2 | 2.2 | 58,900 | 70,300 |
| Isanti | 12,300 | 15,400 | 2.4 | 2.4 | 29,100 | 37,200 |
| Kanabec | 19,500 | 22,600 | 1.5 | 2.2 | 30,200 | 48,800 |
| Mille Lacs | 33,200 | 37,700 | 2.8 | 2.1 | 92,300 | 79,800 |
| Pine | 45,400 | 49,300 | 1.9 | 1.6 | 86,100 | 77,300 |
| Washington | 13,300 | 16,100 | 2.8 | 2.5 | 37,600 | 40,500 |
| Other Counties | 9,300 | 10,600 | 3.0 | 2.7 | 27,500 | 28,500 |
| <u>East Central</u> | 235,500 | 272,700 | 2.2 | 2.0 | 510,400 | 543,700 |
| Cottonwood | 7,700 | 7,700 | 2.3 | 3.1 | 17,600 | 23,600 |
| Jackson | 7,900 | 6,500 | 2.4 | 2.4 | 18,900 | 15,500 |
| Lincoln | 24,900 | 26,300 | 2.7 | 2.5 | 68,100 | 66,100 |
| Lyon | 14,000 | 15,200 | 3.9 | 3.8 | 54,800 | 57,100 |
| Murray | 16,800 | 14,500 | 2.4 | 3.8 | 40,500 | 55,000 |
| Nobles | 17,400 | 13,400 | 2.6 | 3.3 | 45,600 | 44,800 |
| Pipestone | 18,100 | 23,900 | 2.6 | 3.2 | 47,200 | 75,800 |
| Redwood | 10,400 | 10,200 | 3.8 | 2.9 | 39,700 | 29,600 |
| Rock | 13,000 | 11,700 | 2.9 | 3.7 | 38,000 | 42,900 |
| <u>Southwest</u> | 130,200 | 129,400 | 2.8 | 3.2 | 370,400 | 410,400 |
| Blue Earth | 7,000 | 6,500 | 3.3 | 3.7 | 23,300 | 24,200 |
| Brown | 15,600 | 16,300 | 3.6 | 3.8 | 56,000 | 61,400 |
| Faribault | 3,900 | 3,300 | 3.5 | 2.5 | 13,800 | 8,400 |
| Freeborn | 11,500 | 12,800 | 3.5 | 2.6 | 39,700 | 33,100 |
| Le Sueur | 10,900 | 12,300 | 3.1 | 2.8 | 34,200 | 34,000 |
| Martin | 8,100 | 7,300 | 2.7 | 3.3 | 22,000 | 24,000 |
| Nicollet | 9,500 | 8,900 | 3.6 | 3.9 | 33,900 | 34,300 |
| Rice | 20,200 | 23,300 | 3.0 | 3.2 | 60,900 | 75,300 |
| Steele | 15,000 | 15,200 | 2.4 | 3.7 | 35,700 | 55,500 |
| Waseca | 8,800 | 9,600 | 3.4 | 3.2 | 29,900 | 30,700 |
| Watonwan | 2,700 | 2,800 | 3.7 | 3.1 | 9,900 | 8,700 |
| <u>South Central</u> | 113,200 | 118,300 | 3.2 | 3.3 | 359,300 | 389,600 |
| Dakota | 14,800 | 17,500 | 3.5 | 2.8 | 52,000 | 49,500 |
| Dodge | 16,000 | 16,300 | 2.9 | 2.9 | 46,600 | 47,500 |
| Fillmore | 57,200 | 64,300 | 3.6 | 3.5 | 205,900 | 227,900 |
| Goodhue | 49,000 | 45,900 | 3.8 | 4.4 | 188,400 | 201,000 |
| Houston | 44,600 | 44,200 | 3.6 | 3.6 | 159,300 | 160,100 |
| Mower | 15,700 | 18,400 | 3.2 | 3.4 | 49,600 | 62,700 |
| Olmsted | 39,800 | 39,200 | 3.4 | 3.7 | 135,100 | 144,700 |
| Wabasha | 44,800 | 44,500 | 3.4 | 3.7 | 153,300 | 164,600 |
| Winona | 53,700 | 57,400 | 4.2 | 3.9 | 225,700 | 222,700 |
| <u>Southeast</u> | 335,600 | 347,700 | 3.6 | 3.7 | 1,215,900 | 1,280,700 |
| <u>Minnesota</u> | 2,225,000 | 2,375,000 | 2.7 | 2.7 | 5,998,000 | 6,488,000 |

1/ Counties with less than 1,000 acres planted for all purposes are not listed separately, but are combined under Other Counties.

**ALFALFA HAY: ACREAGE, YIELD, AND PRODUCTION, BY COUNTY AND DISTRICT,
MINNESOTA, 1996-97**

| County and District 1/ | Harvested Acreage | | Yield Per Harvested Acre | | Production | |
|------------------------------|-------------------|---------|-----------------------------|------|-------------|-----------|
| | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 |
| | <u>Acres</u> | | <u>Tons</u> | | <u>Tons</u> | |
| Becker | 25,100 | 27,300 | 2.7 | 2.7 | 67,800 | 73,700 |
| Clay | 17,000 | 16,000 | 2.7 | 2.9 | 45,900 | 46,400 |
| Clearwater | 15,600 | 18,000 | 2.2 | 2.4 | 34,300 | 43,200 |
| Kittson | 18,000 | 18,900 | 2.0 | 1.9 | 36,000 | 35,900 |
| Mahnomen | 16,700 | 18,500 | 2.7 | 2.4 | 45,100 | 44,400 |
| Marshall | 23,400 | 25,200 | 2.7 | 2.2 | 63,200 | 55,400 |
| Norman | 16,000 | 16,800 | 3.1 | 3.1 | 49,600 | 52,100 |
| Pennington | 20,900 | 23,700 | 2.2 | 2.8 | 46,000 | 66,400 |
| Polk | 35,000 | 32,500 | 2.7 | 2.6 | 94,500 | 84,500 |
| Red Lake | 16,100 | 16,500 | 3.2 | 2.4 | 51,500 | 39,600 |
| Roseau | 33,500 | 33,600 | 2.7 | 2.4 | 90,500 | 80,600 |
| Northwest | 237,300 | 247,000 | 2.6 | 2.5 | 624,400 | 622,200 |
| Beltrami | 33,300 | 26,200 | 2.5 | 2.3 | 83,300 | 60,300 |
| Cass | 5,400 | 5,000 | 2.4 | 2.7 | 13,000 | 13,500 |
| Hubbard | 9,600 | 8,400 | 2.0 | 1.9 | 19,200 | 16,000 |
| Itasca | 1,600 | 1,600 | 2.7 | 2.3 | 4,300 | 3,700 |
| Koochiching | 1,400 | 1,700 | 2.5 | 1.5 | 3,500 | 2,500 |
| Lake of the Woods | 3,600 | 3,200 | 2.5 | 2.0 | 9,000 | 6,400 |
| North Central | 54,900 | 46,100 | 2.4 | 2.2 | 132,300 | 102,400 |
| Other Counties | 1,000 | 700 | 2.2 | 2.6 | 2,200 | 1,800 |
| Northeast | 1,000 | 700 | 2.2 | 2.6 | 2,200 | 1,800 |
| Big Stone | 4,800 | 4,200 | 2.4 | 3.4 | 11,500 | 14,300 |
| Chippewa | 5,600 | 5,800 | 3.7 | 3.6 | 20,700 | 20,900 |
| Douglas | 25,800 | 25,900 | 3.2 | 3.7 | 82,600 | 95,800 |
| Grant | 6,000 | 7,500 | 2.6 | 3.4 | 15,600 | 25,500 |
| Lac Qui Parle | 9,100 | 10,100 | 3.6 | 3.7 | 32,800 | 37,400 |
| Otter Tail | 119,300 | 111,600 | 2.5 | 3.0 | 298,300 | 334,800 |
| Pope | 24,400 | 22,500 | 3.1 | 3.4 | 75,600 | 76,500 |
| Stevens | 8,500 | 9,000 | 3.2 | 2.8 | 27,200 | 25,200 |
| Swift | 9,900 | 11,900 | 3.3 | 3.3 | 32,700 | 39,300 |
| Traverse | 5,600 | 6,800 | 3.5 | 2.4 | 19,600 | 16,300 |
| Wilkin | 4,400 | 5,000 | 2.1 | 3.3 | 9,200 | 16,500 |
| Yellow Medicine | 8,100 | 8,600 | 2.8 | 3.4 | 22,700 | 29,200 |
| West Central | 231,500 | 228,900 | 2.8 | 3.2 | 648,500 | 731,700 |
| Benton | 12,400 | 15,400 | 2.8 | 3.3 | 34,700 | 50,800 |
| Carver | 21,400 | 23,300 | 3.7 | 4.0 | 79,200 | 93,200 |
| Kandiyohi | 25,100 | 25,800 | 3.1 | 3.2 | 77,800 | 82,600 |
| McLeod | 13,000 | 14,300 | 4.5 | 4.0 | 58,500 | 57,200 |
| Meeker | 17,900 | 16,600 | 4.0 | 3.9 | 71,600 | 64,700 |
| Morrison | 44,500 | 40,900 | 2.4 | 3.2 | 106,800 | 130,900 |
| Renville | 7,900 | 9,000 | 4.4 | 3.6 | 34,800 | 32,400 |
| Scott | 11,600 | 12,400 | 4.0 | 4.2 | 46,400 | 52,100 |
| Sherburne | 6,700 | 7,000 | 2.7 | 3.0 | 18,100 | 21,000 |
| Sibley | 10,800 | 11,200 | 4.5 | 4.1 | 48,600 | 45,900 |
| Stearns | 100,400 | 97,500 | 3.2 | 4.0 | 321,300 | 390,000 |
| Todd | 66,700 | 61,100 | 3.0 | 3.0 | 200,100 | 183,300 |
| Wadena | 18,700 | 21,800 | 2.4 | 2.4 | 44,900 | 52,300 |
| Wright | 28,500 | 32,600 | 2.7 | 3.6 | 77,000 | 117,400 |
| Central | 385,600 | 388,900 | 3.2 | 3.5 | 1,219,800 | 1,373,800 |

1/ Counties with less than 1,000 acres planted for all purposes are not listed separately, but are combined under Other Counties.

--continued

**ALFALFA HAY: ACREAGE, YIELD, AND PRODUCTION, BY COUNTY AND DISTRICT,
MINNESOTA, 1996-97 (continued)**

| County and District 1/ | Harvested Acreage | | Yield Per Harvested Acre | | Production | |
|------------------------------|-------------------|-----------|-----------------------------|------|------------|-----------|
| | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 |
| | Acres | | Tons | | Tons | |
| Aitkin | 1,200 | 1,500 | 2.1 | 2.5 | 2,500 | 3,800 |
| Anoka | 4,500 | 4,200 | 2.3 | 2.5 | 10,400 | 10,500 |
| Carlton | 2,100 | 1,300 | 1.6 | 1.8 | 3,400 | 2,300 |
| Chisago | 7,600 | 7,600 | 2.9 | 2.9 | 22,000 | 22,000 |
| Crow Wing | 17,500 | 15,800 | 2.3 | 2.7 | 40,300 | 42,700 |
| Isanti | 8,500 | 9,200 | 2.4 | 2.9 | 20,400 | 26,700 |
| Kanabec | 4,900 | 6,000 | 1.7 | 2.6 | 8,300 | 15,600 |
| Mille Lacs | 20,600 | 22,400 | 3.5 | 2.4 | 72,100 | 53,800 |
| Pine | 13,500 | 16,500 | 2.7 | 2.3 | 36,500 | 37,900 |
| Washington | 6,900 | 6,700 | 3.5 | 3.1 | 24,200 | 20,800 |
| Other Counties | 7,400 | 7,600 | 3.2 | 3.2 | 23,700 | 24,300 |
| East Central | 94,700 | 98,800 | 2.8 | 2.6 | 263,800 | 260,400 |
| Cottonwood | 5,900 | 4,900 | 2.3 | 3.5 | 13,600 | 17,200 |
| Jackson | 4,900 | 3,400 | 2.7 | 2.9 | 13,200 | 9,900 |
| Lincoln | 19,400 | 16,000 | 2.8 | 3.1 | 54,300 | 49,600 |
| Lyon | 10,700 | 11,700 | 4.5 | 4.1 | 48,200 | 48,000 |
| Murray | 15,100 | 12,500 | 2.5 | 4.1 | 37,800 | 51,200 |
| Nobles | 13,900 | 10,000 | 2.7 | 3.8 | 37,500 | 38,000 |
| Pipestone* | 16,300 | 21,100 | 2.7 | 3.3 | 44,000 | 69,600 |
| Redwood | 8,500 | 8,200 | 4.0 | 3.2 | 34,000 | 26,200 |
| Rock | 11,100 | 9,400 | 3.1 | 3.9 | 34,400 | 36,700 |
| Southwest | 105,800 | 97,200 | 3.0 | 3.6 | 317,000 | 346,400 |
| Blue Earth | 4,500 | 3,900 | 3.5 | 4.6 | 15,800 | 17,900 |
| Brown | 13,200 | 12,900 | 3.7 | 4.1 | 48,800 | 52,900 |
| Faribault | 2,400 | 2,300 | 4.3 | 2.8 | 10,300 | 6,400 |
| Freeborn | 10,200 | 8,400 | 3.5 | 3.0 | 35,700 | 25,200 |
| Le Sueur | 8,400 | 9,400 | 3.6 | 2.9 | 30,200 | 27,300 |
| Martin | 4,100 | 4,200 | 3.7 | 4.1 | 15,200 | 17,200 |
| Nicollet | 8,100 | 7,800 | 3.8 | 4.1 | 30,800 | 32,000 |
| Rice | 12,700 | 12,900 | 3.2 | 3.9 | 40,600 | 50,300 |
| Steele | 10,400 | 10,900 | 2.5 | 4.3 | 26,000 | 46,900 |
| Waseca | 6,600 | 7,400 | 3.5 | 3.5 | 23,100 | 25,900 |
| Watonwan | 2,300 | 2,300 | 3.9 | 3.4 | 9,000 | 7,800 |
| South Central | 82,900 | 82,400 | 3.4 | 3.8 | 285,500 | 309,800 |
| Dakota | 12,400 | 14,200 | 3.6 | 3.0 | 44,600 | 42,600 |
| Dodge | 8,600 | 10,100 | 3.7 | 3.3 | 31,800 | 33,300 |
| Fillmore | 49,100 | 50,600 | 3.8 | 3.8 | 188,900 | 192,300 |
| Goodhue | 43,600 | 42,200 | 4.0 | 4.5 | 174,400 | 189,900 |
| Houston | 39,500 | 36,000 | 3.6 | 3.9 | 143,500 | 140,400 |
| Mower | 11,900 | 13,900 | 3.4 | 3.8 | 40,500 | 52,800 |
| Olmsted | 30,400 | 31,100 | 3.7 | 4.0 | 112,500 | 124,400 |
| Wabasha | 40,200 | 38,100 | 3.5 | 3.9 | 142,700 | 148,600 |
| Winona | 45,600 | 48,800 | 4.4 | 4.0 | 200,600 | 195,200 |
| Southeast | 281,300 | 285,000 | 3.8 | 3.9 | 1,079,500 | 1,119,500 |
| Minnesota | 1,475,000 | 1,475,000 | 3.1 | 3.3 | 4,573,000 | 4,868,000 |

1/ Counties with less than 1,000 acres planted for all purposes are not listed separately, but are combined under Other Counties.

BARLEY: ACREAGE, YIELD, AND PRODUCTION, BY COUNTY AND DISTRICT, MINNESOTA, 1996-97

| County and District 1/ | Planted Acreage | | Harvested Acreage | | Yield Per Harvested Acre | | Production | |
|------------------------|-----------------|---------|-------------------|---------|--------------------------|------|----------------|------------|
| | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 |
| | <u>Acres</u> | | <u>Acres</u> | | <u>Bushels</u> | | <u>Bushels</u> | |
| Becker | 13,300 | 12,000 | 12,800 | 11,300 | 62.0 | 55.0 | 793,600 | 621,500 |
| Clay | 31,100 | 26,500 | 30,000 | 25,200 | 71.0 | 54.0 | 2,130,000 | 1,360,800 |
| Clearwater | 2,700 | 4,200 | 2,600 | 3,600 | 43.0 | 36.0 | 111,800 | 129,600 |
| Kittson | 31,800 | 37,600 | 30,300 | 35,800 | 66.0 | 57.0 | 1,999,800 | 2,040,600 |
| Mahnomen | 25,300 | 15,900 | 24,300 | 15,200 | 66.0 | 49.0 | 1,603,800 | 744,800 |
| Marshall | 79,500 | 91,200 | 76,800 | 88,100 | 65.0 | 50.0 | 4,992,000 | 4,405,000 |
| Norman | 54,200 | 46,200 | 52,300 | 45,300 | 63.0 | 47.0 | 3,294,900 | 2,129,100 |
| Pennington | 37,800 | 48,500 | 35,800 | 43,400 | 57.0 | 42.0 | 2,040,600 | 1,822,800 |
| Polk | 109,500 | 106,500 | 105,000 | 103,300 | 70.0 | 55.0 | 7,350,000 | 5,681,500 |
| Red Lake | 25,000 | 29,600 | 24,100 | 26,500 | 60.0 | 39.0 | 1,446,000 | 1,033,500 |
| Roseau | 44,100 | 47,500 | 41,300 | 46,300 | 58.0 | 52.0 | 2,395,400 | 2,407,600 |
| Northwest | 454,300 | 465,700 | 435,300 | 444,000 | 64.7 | 50.4 | 28,157,900 | 22,376,800 |
| Beltrami | 2,400 | 3,300 | 2,200 | 3,100 | 48.0 | 40.0 | 105,600 | 124,000 |
| Lake of the Woods | 3,100 | 3,700 | 2,900 | 3,500 | 79.0 | 63.0 | 229,100 | 220,500 |
| Other Counties | 1,600 | 1,600 | 1,600 | 1,400 | 45.3 | 42.8 | 72,400 | 59,900 |
| North Central | 7,100 | 8,600 | 6,700 | 8,000 | 60.8 | 50.6 | 407,100 | 404,400 |
| Other Counties | 500 | 1,200 | 500 | 1,000 | 52.0 | 35.0 | 26,000 | 35,000 |
| Northeast | 500 | 1,200 | 500 | 1,000 | 52.0 | 35.0 | 26,000 | 35,000 |
| Douglas | 2,800 | 3,000 | 2,700 | 2,600 | 57.0 | 46.0 | 153,900 | 119,600 |
| Grant | 4,500 | 4,500 | 4,400 | 4,200 | 69.0 | 59.0 | 303,600 | 247,800 |
| Other Tail | 9,900 | 11,600 | 9,500 | 10,400 | 55.0 | 48.0 | 522,500 | 499,200 |
| Traverse | 3,800 | 3,500 | 3,700 | 3,300 | 61.0 | 63.0 | 225,700 | 207,900 |
| Wilkin | 15,000 | 16,000 | 14,200 | 15,000 | 70.0 | 61.0 | 994,000 | 915,000 |
| Other Counties | 2,400 | 2,800 | 2,200 | 2,300 | 51.7 | 54.4 | 113,700 | 125,200 |
| West Central | 38,400 | 41,400 | 36,700 | 37,800 | 63.0 | 55.9 | 2,313,400 | 2,114,700 |
| Benton | 1,000 | 1,700 | 800 | 1,600 | 52.0 | 47.0 | 41,600 | 75,200 |
| Meeker | 1,200 | 1,700 | 1,000 | 1,200 | 49.0 | 61.0 | 49,000 | 73,200 |
| Morrison | 2,000 | 2,800 | 1,800 | 2,000 | 46.0 | 49.0 | 82,800 | 98,000 |
| Stearns | 7,100 | 9,500 | 5,900 | 7,500 | 68.0 | 50.0 | 401,200 | 375,000 |
| Todd | 6,500 | 10,200 | 6,200 | 8,800 | 52.0 | 50.0 | 322,400 | 440,000 |
| Wadena | 1,900 | 1,900 | 1,700 | 1,800 | 56.0 | 62.0 | 95,200 | 111,600 |
| Wright | 1,600 | 1,400 | 1,300 | 1,100 | 51.0 | 43.0 | 66,300 | 47,300 |
| Other Counties | 3,100 | 3,900 | 2,200 | 2,900 | 54.8 | 48.9 | 120,500 | 141,800 |
| Central | 24,400 | 33,100 | 20,900 | 26,900 | 56.4 | 50.6 | 1,179,000 | 1,362,100 |
| Kanabec | -- | 1,100 | -- | 1,000 | -- | 41.0 | -- | 41,000 |
| Other Counties | 3,300 | 3,100 | 2,700 | 2,100 | 48.5 | 45.2 | 131,000 | 95,000 |
| East Central | 3,300 | 4,200 | 2,700 | 3,100 | 48.5 | 43.9 | 131,000 | 136,000 |
| Pipestone | -- | 1,300 | -- | 800 | -- | 57.0 | -- | 45,600 |
| Other Counties | 3,300 | 3,400 | 2,000 | 2,400 | 54.9 | 43.0 | 109,800 | 103,300 |
| Southwest | 3,300 | 4,700 | 2,000 | 3,200 | 54.9 | 46.5 | 109,800 | 148,900 |
| Other Counties | 1,800 | 3,000 | 1,200 | 2,000 | 62.1 | 59.6 | 74,500 | 119,200 |
| South Central | 1,800 | 3,000 | 1,200 | 2,000 | 62.1 | 59.6 | 74,500 | 119,200 |
| Fillmore | 3,400 | 4,500 | 3,200 | 3,200 | 67.0 | 61.0 | 214,400 | 195,200 |
| Goodhue | 3,500 | 4,700 | 3,000 | 4,600 | 64.0 | 61.0 | 192,000 | 280,600 |
| Houston | 2,400 | 2,400 | 2,100 | 1,800 | 58.0 | 59.0 | 121,800 | 106,200 |
| Wabasha | 2,900 | 1,900 | 2,400 | 1,500 | 63.0 | 67.0 | 151,200 | 100,500 |
| Winona | 2,500 | 2,000 | 1,600 | 1,200 | 68.0 | 53.0 | 108,800 | 63,600 |
| Other Counties | 2,200 | 2,600 | 1,700 | 1,700 | 54.8 | 56.9 | 93,100 | 96,800 |
| Southeast | 16,900 | 18,100 | 14,000 | 14,000 | 63.0 | 60.2 | 881,300 | 842,900 |
| Minnesota | 550,000 | 580,000 | 520,000 | 540,000 | 64.0 | 51.0 | 33,280,000 | 27,540,000 |

1/ Counties with less than 1,000 acres planted for all purposes are not listed separately, but are combined under Other Counties. Counties denoted with "--" are also less than 1,000 acres and are included in Other Counties.

RYE: ACREAGE, YIELD, AND PRODUCTION, BY COUNTY AND DISTRICT, MINNESOTA, 1996-97

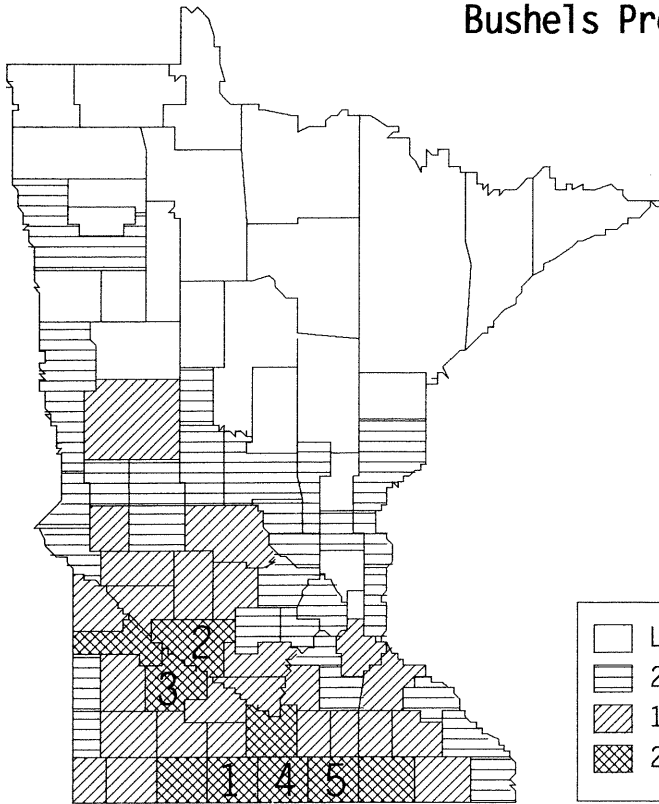
| County and District 1/ | Planted Acreage | | Harvested Acreage | | Yield Per Harvested Acre | | Production | |
|------------------------|-----------------|--------|-------------------|--------|--------------------------|------|------------|---------|
| | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 |
| | Acres | | Acres | | Bushels | | Bushels | |
| Marshall | 1,400 | 1,800 | 1,100 | 1,700 | 23.0 | 34.0 | 25,300 | 57,800 |
| Other Counties | 1,700 | 2,700 | 1,500 | 2,500 | 21.3 | 29.0 | 31,900 | 72,400 |
| <u>Northwest</u> | 3,100 | 4,500 | 2,600 | 4,200 | 22.0 | 31.0 | 57,200 | 130,200 |
| Hubbard | 1,100 | -- | 600 | -- | 22.0 | -- | 13,200 | -- |
| Other Counties | 500 | 1,000 | 200 | 900 | 22.0 | 27.9 | 4,400 | 25,100 |
| <u>North Central</u> | 1,600 | 1,000 | 800 | 900 | 22.0 | 27.9 | 17,600 | 25,100 |
| Other Counties | -- | 1,400 | -- | 1,300 | -- | 22.0 | -- | 28,600 |
| <u>West Central</u> | -- | 1,400 | -- | 1,300 | -- | 22.0 | -- | 28,600 |
| Benton | 1,000 | -- | 600 | -- | 24.0 | -- | 14,400 | -- |
| Morrison | 3,000 | 2,500 | 2,800 | 2,400 | 25.0 | 28.0 | 70,000 | 67,200 |
| Sherburne | 3,400 | 3,300 | 2,800 | 2,400 | 20.0 | 16.0 | 56,000 | 38,400 |
| Stearns | 2,200 | 2,100 | 2,100 | 2,000 | 30.0 | 30.0 | 63,000 | 60,000 |
| Todd | 1,000 | 1,400 | 900 | 1,300 | 19.0 | 27.0 | 17,100 | 35,100 |
| Other Counties | 1,100 | 2,300 | 1,000 | 2,100 | 18.9 | 28.5 | 18,900 | 59,900 |
| <u>Central</u> | 11,700 | 11,600 | 10,200 | 10,200 | 23.5 | 25.5 | 239,400 | 260,600 |
| Anoka | 1,500 | 1,200 | 1,000 | 800 | 22.0 | 20.0 | 22,000 | 16,000 |
| Isanti | 2,000 | 1,900 | 1,600 | 1,400 | 28.0 | 22.0 | 44,800 | 30,800 |
| Other Counties | 2,600 | 2,100 | 2,000 | 1,400 | 24.0 | 22.1 | 48,000 | 30,900 |
| <u>East Central</u> | 6,100 | 5,200 | 4,600 | 3,600 | 25.0 | 21.6 | 114,800 | 77,700 |
| <u>Other Districts</u> | 2,500 | 1,300 | 1,800 | 800 | 28.3 | 29.8 | 51,000 | 23,800 |
| <u>Minnesota</u> | 25,000 | 25,000 | 20,000 | 21,000 | 24.0 | 26.0 | 480,000 | 546,000 |

1/ Counties with less than 1,000 acres planted for all purposes are not listed separately, but are combined under Other Counties or Other Districts. Counties denoted with "--" are also less than 1,000 acres and are included in Other Counties.



CORN

BusheIs Produced in 1997

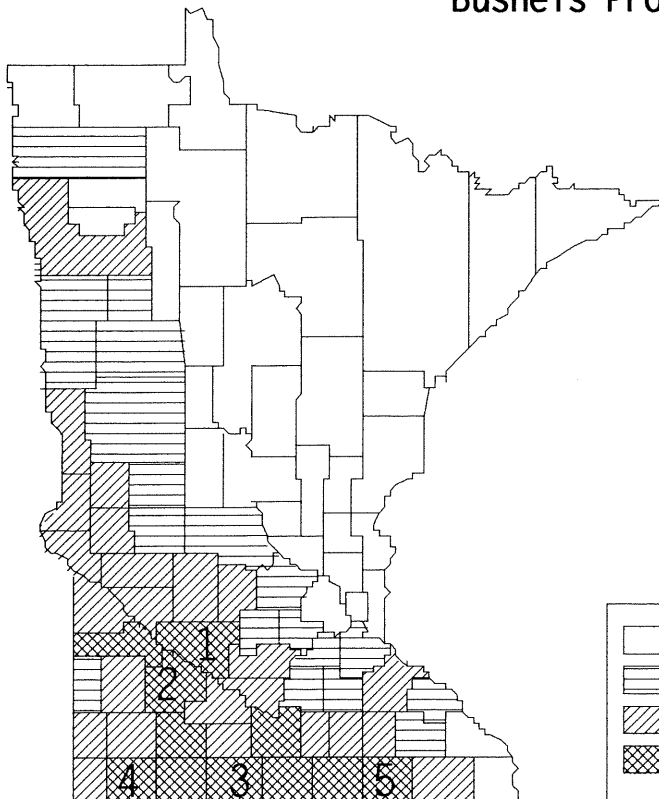


Top Five
Production
Counties
For 1997

- 1-Martin
- 2-Renville
- 3-Redwood
- 4-Faribault
- 5-Freeborn

SOYBEANS

BusheIs Produced in 1997

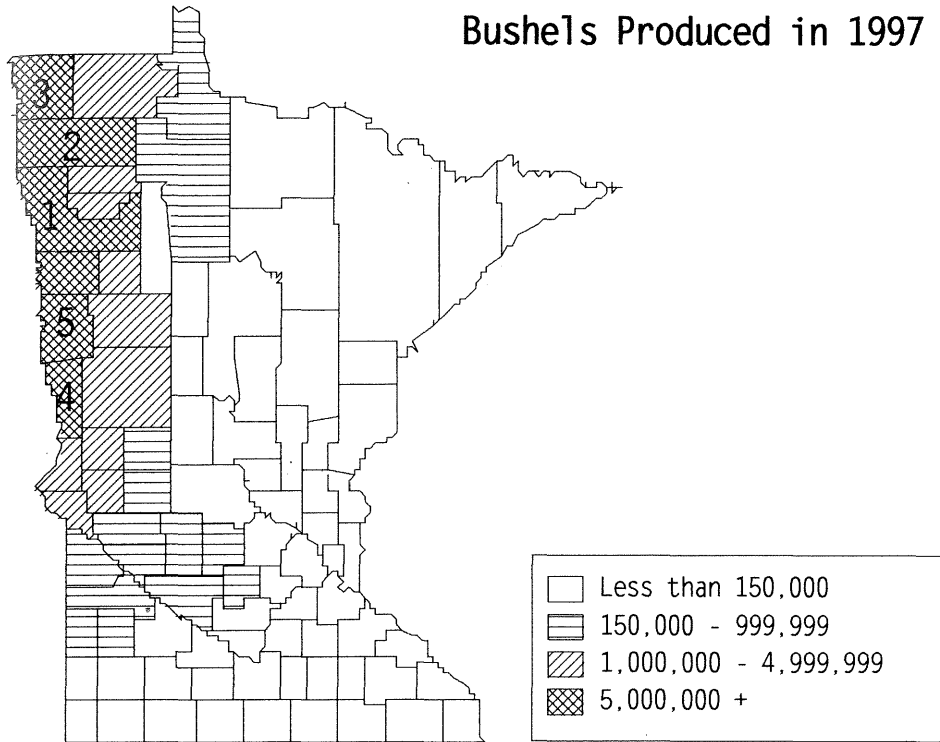


Top Five
Production
Counties
For 1997

- 1-Renville
- 2-Redwood
- 3-Martin
- 4-Nobles
- 5-Mower

ALL WHEAT

Bushels Produced in 1997

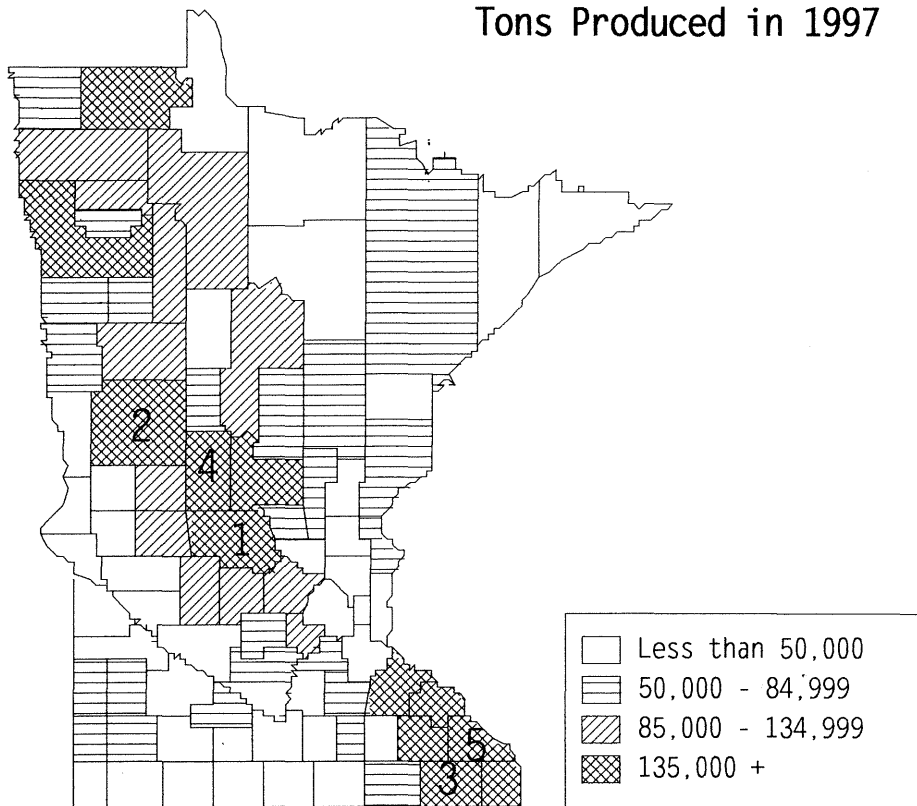


Top Five
Production
Counties
For 1997

1-Polk
2-Marshall
3-Kittson
4-Wilkin
5-Clay

ALL HAY

Tons Produced in 1997

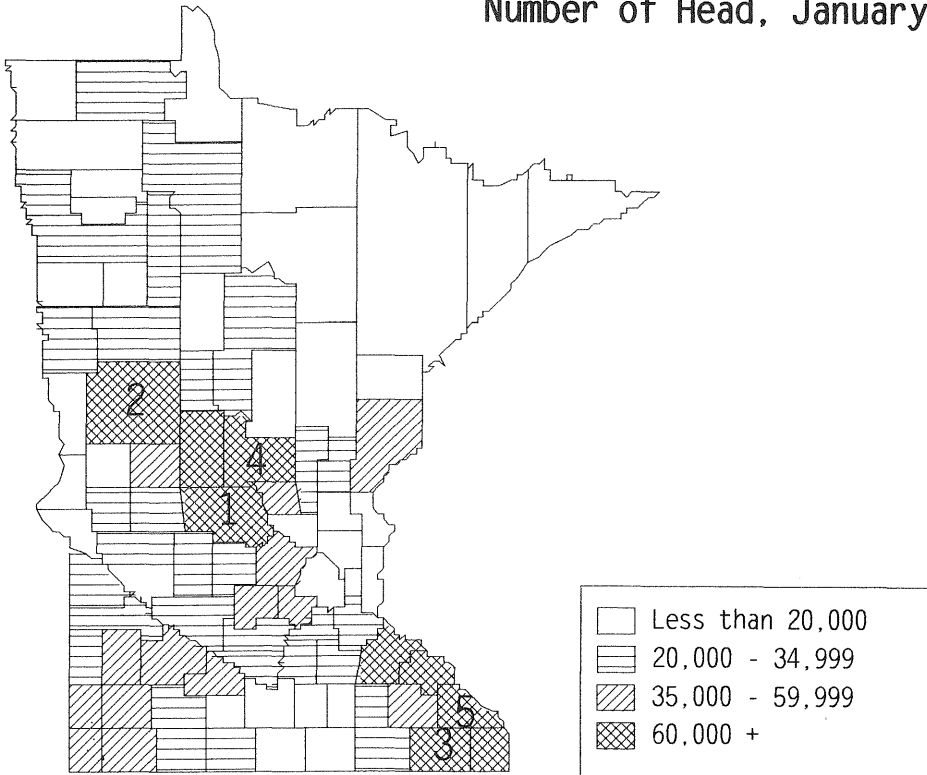


Top Five
Production
Counties
For 1997

1-Stearns
2-Otter Tail
3-Fillmore
4-Todd
5-Winona

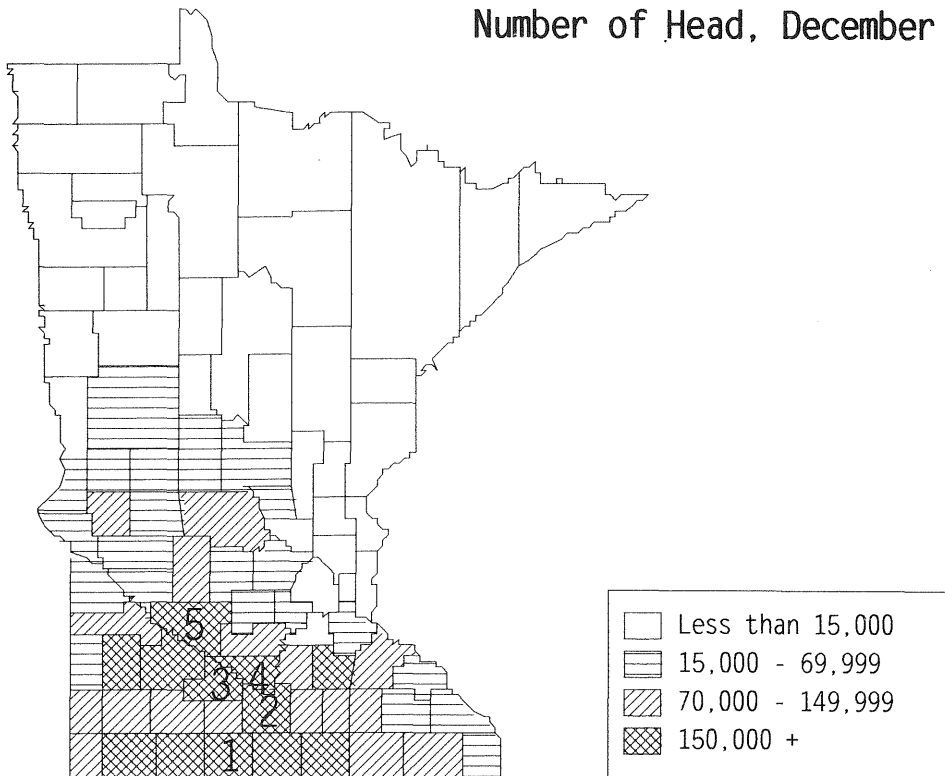
ALL CATTLE & CALVES

Number of Head, January 1, 1998



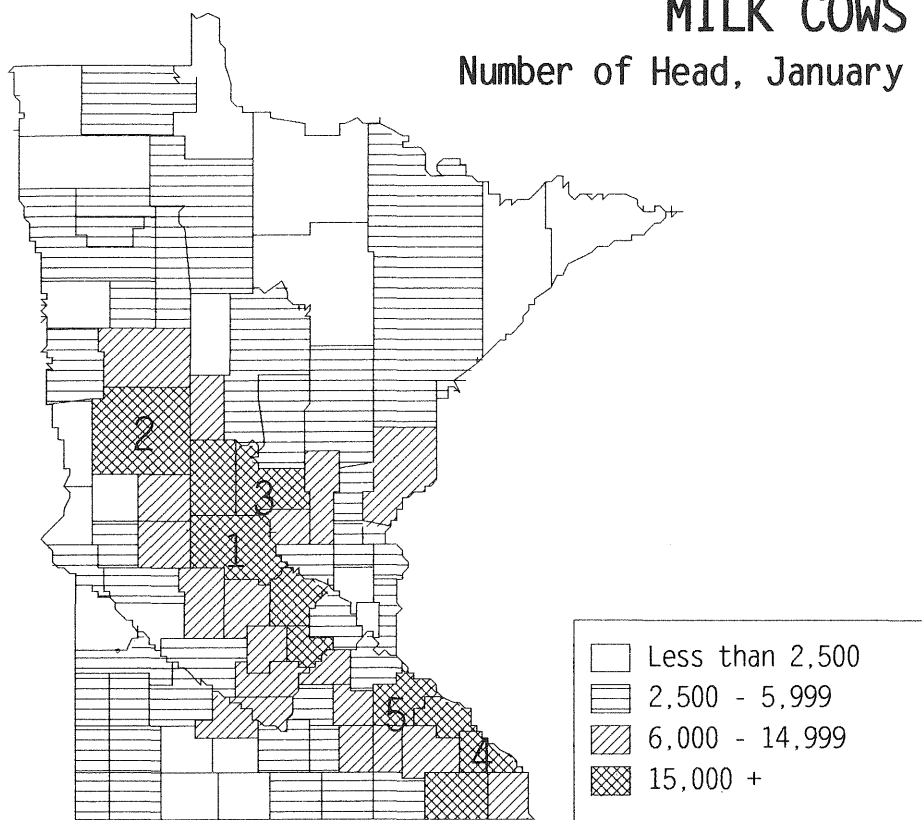
ALL HOGS

Number of Head, December 1, 1997



MILK COWS

Number of Head, January 1, 1998

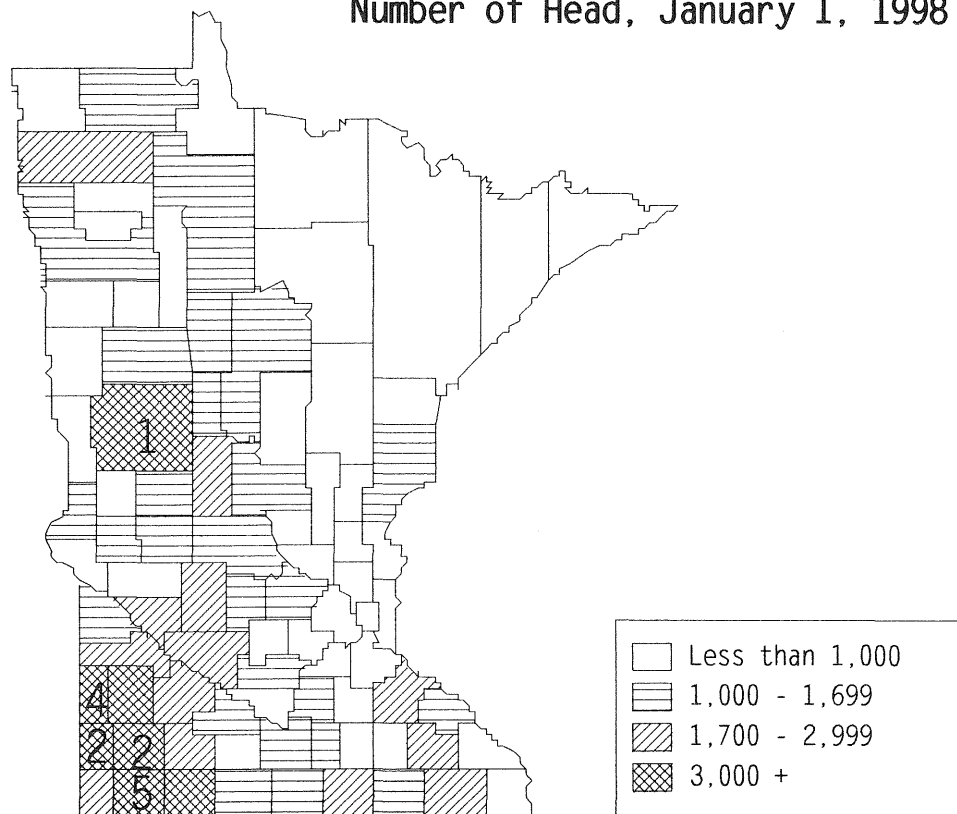


Top Five
Milk Cows
Counties
For 1997

- 1-Stearns
- 2-Otter Tail
- 3-Morrison
- 4-Winona
- 5-Goodhue

ALL BREEDING SHEEP & LAMBS

Number of Head, January 1, 1998

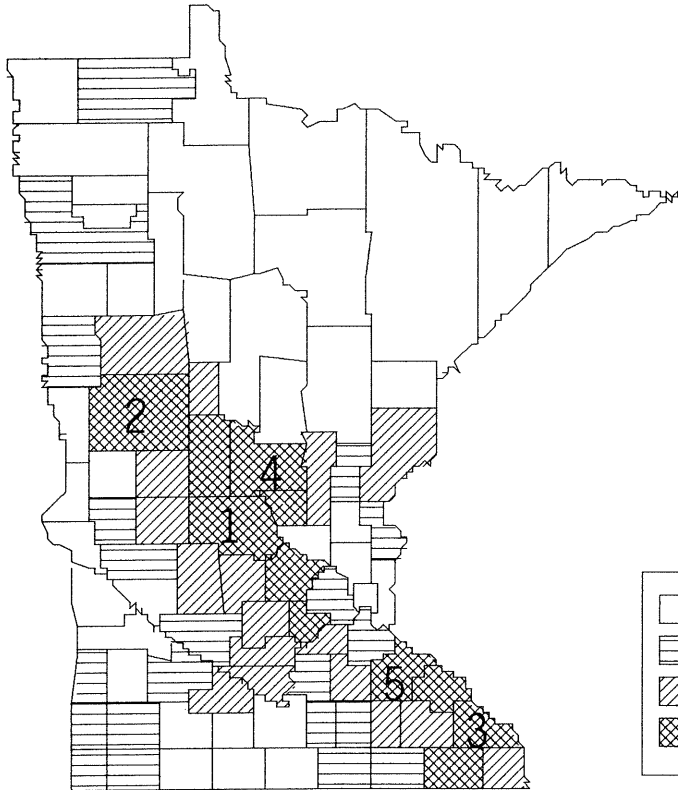


Top Five
All Breeding
Sheep &
Lambs
Counties
For 1997

- 1-Otter Tail
- 2-Murray
- 2-Pipestone
- 4-Lincoln
- 5-Nobles

MILK PRODUCTION

Thousand Pounds Produced in 1997

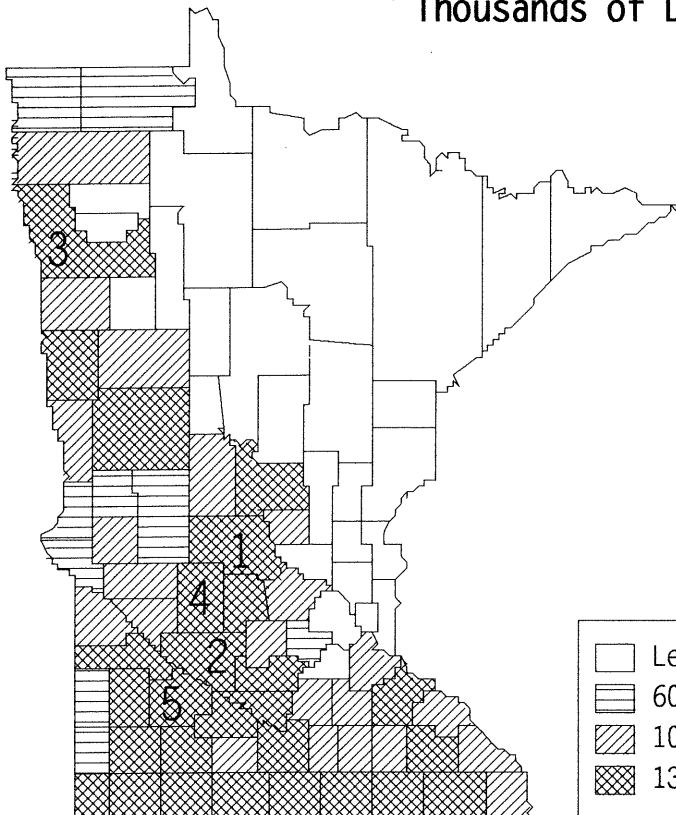


Top Five
Counties
For 1997

- 1-Stearns
- 2-Otter Tail
- 3-Winona
- 4-Morrison
- 5-Goodhue

CASH FARM RECEIPTS

Thousands of Dollars in 1996



Top Five
Counties
for 1996

- 1-Stearns
- 2-Renville
- 3-Polk
- 4-Kandiyohi
- 5-Redwood

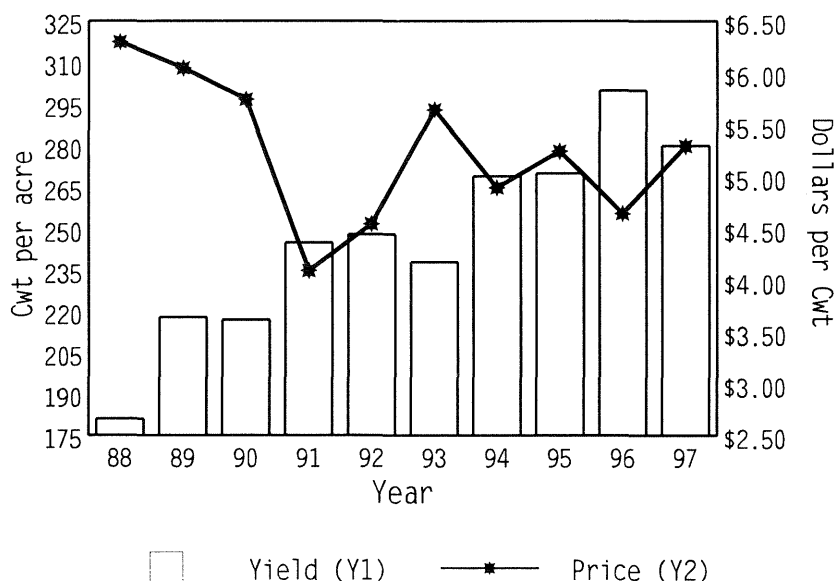
POTATOES: ACREAGE, YIELD, AND PRODUCTION, BY SELECTED COUNTIES, MINNESOTA, 1996-97

| County and District 1/ | Planted Acreage | | Harvested Acreage | | Yield Per Harvested Acre | | Production | |
|------------------------|-----------------|--------|-------------------|--------|--------------------------|------|------------|------------|
| | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 |
| | <u>Acres</u> | | <u>Acres</u> | | <u>Cwt</u> | | <u>Cwt</u> | |
| Clay | 5,300 | 5,000 | 5,300 | 4,900 | 230 | 210 | 1,219,000 | 1,027,000 |
| Kittson | 4,000 | 2,500 | 4,000 | 2,400 | 210 | 150 | 840,000 | 360,000 |
| Marshall | 8,000 | 6,100 | 7,800 | 5,900 | 180 | 160 | 1,401,000 | 942,000 |
| Polk | 16,300 | 12,700 | 16,000 | 11,600 | 150 | 220 | 2,400,000 | 2,550,000 |
| Red Lake | 1,900 | 1,500 | 1,700 | 1,400 | 180 | 190 | 306,000 | 266,000 |
| Lake of the Woods | 1,500 | 1,000 | 1,400 | 1,000 | 191 | 170 | 267,000 | 170,000 |
| Morrison | 3,200 | 3,000 | 3,100 | 2,900 | 462 | 395 | 1,431,000 | 1,146,000 |
| Sherburne | 6,700 | 6,000 | 6,600 | 5,700 | 395 | 295 | 2,610,000 | 1,682,000 |
| Todd | 1,900 | -- | 1,800 | -- | 425 | -- | 765,000 | -- |
| Freeborn | 2,800 | 3,100 | 2,700 | 3,000 | 300 | 230 | 810,000 | 690,000 |
| Other Counties | 33,400 | 36,100 | 31,600 | 34,200 | 397 | 339 | 12,551,000 | 11,607,000 |
| <u>Minnesota</u> | 85,000 | 77,000 | 82,000 | 73,000 | 300 | 280 | 24,600,000 | 20,440,000 |

1/ Counties with less than 1,000 acres planted for all purposes are not listed separately, but are combined under All Other Counties. Also, counties where one producer represents more than 60% of the total county data are not listed separately, but are combined under All Other Counties. Counties denoted with "--" are also less than 1,000 acres and are included in All Other Counties.

POTATO YIELDS AND PRICES

Minnesota



SUGARBEETS: ACREAGE, YIELD, AND PRODUCTION, BY COUNTY AND DISTRICT, MINNESOTA, 1996-97

| County and District 1/ | Planted Acreage | | Harvested Acreage | | Yield Per Harvested Acre | | Production | |
|------------------------|-----------------|---------|-------------------|---------|--------------------------|------|-------------|-----------|
| | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 |
| | <u>Acres</u> | | <u>Acres</u> | | <u>Tons</u> | | <u>Tons</u> | |
| Becker | 2,400 | 4,700 | 2,400 | 4,600 | 22.7 | 21.1 | 54,400 | 97,200 |
| Clay | 62,500 | 66,300 | 62,400 | 64,600 | 18.4 | 19.0 | 1,145,800 | 1,224,500 |
| Kittson | 28,200 | 29,700 | 28,000 | 29,200 | 15.8 | 16.5 | 443,400 | 482,100 |
| Mahnomen | -- | 2,200 | -- | 2,200 | -- | 22.0 | -- | 48,500 |
| Marshall | 33,700 | 34,600 | 33,200 | 34,400 | 16.7 | 17.7 | 553,900 | 610,000 |
| Norman | 42,200 | 43,500 | 41,600 | 41,400 | 19.7 | 17.4 | 821,100 | 721,300 |
| Polk | 103,100 | 101,800 | 102,900 | 101,000 | 17.4 | 19.5 | 1,794,800 | 1,966,000 |
| Red Lake | 1,700 | -- | 1,700 | -- | 16.8 | -- | 28,600 | -- |
| Other Counties | 1,200 | 1,100 | 1,200 | 1,100 | 20.1 | 19.5 | 24,100 | 21,400 |
| Northwest | 275,000 | 283,900 | 273,400 | 278,500 | 17.8 | 18.6 | 4,866,100 | 5,171,000 |
| Chippewa | 33,300 | 32,400 | 33,100 | 32,200 | 18.5 | 17.7 | 613,600 | 569,000 |
| Grant | 9,200 | 10,200 | 9,100 | 10,100 | 18.3 | 19.7 | 166,600 | 198,700 |
| Otter Tail | 2,400 | 2,900 | 2,400 | 2,900 | 19.0 | 19.6 | 45,700 | 56,700 |
| Swift | 4,700 | 5,300 | 4,700 | 5,300 | 16.8 | 17.5 | 79,000 | 92,900 |
| Traverse | 7,900 | 6,900 | 7,800 | 6,800 | 17.5 | 18.6 | 136,700 | 126,800 |
| Wilkin | 36,900 | 40,500 | 36,600 | 40,200 | 18.3 | 19.0 | 668,700 | 763,200 |
| Yellow Medicine | 3,600 | 2,800 | 3,500 | 2,800 | 20.4 | 18.0 | 71,300 | 50,300 |
| Other Counties | 1,700 | 2,200 | 1,700 | 2,000 | 16.3 | 17.8 | 27,700 | 35,500 |
| West Central | 99,700 | 103,200 | 98,900 | 102,300 | 18.3 | 18.5 | 1,809,300 | 1,893,100 |
| Kandiyohi | 13,500 | 12,800 | 13,500 | 12,700 | 20.3 | 19.1 | 273,700 | 242,100 |
| McLeod | 1,000 | 3,100 | 900 | 3,100 | 20.1 | 17.0 | 18,100 | 52,700 |
| Meeker | 1,600 | 1,900 | 1,600 | 1,800 | 19.1 | 15.2 | 30,500 | 27,300 |
| Renville | 40,200 | 41,400 | 39,900 | 41,100 | 19.5 | 18.2 | 777,000 | 747,400 |
| Sibley | 6,200 | 3,300 | 6,100 | 3,200 | 20.9 | 16.4 | 127,200 | 52,600 |
| Other Counties | 300 | 300 | 300 | 300 | 22.7 | 18.3 | 6,800 | 5,500 |
| Central | 62,800 | 62,800 | 62,300 | 62,200 | 19.8 | 18.1 | 1,233,300 | 1,127,600 |
| Redwood | 3,500 | 2,400 | 3,400 | 2,300 | 18.3 | 19.7 | 62,300 | 45,400 |
| Other Counties | -- | 500 | -- | 500 | -- | 20.6 | -- | 10,300 |
| Southwest | 3,500 | 2,900 | 3,400 | 2,800 | 18.3 | 19.9 | 62,300 | 55,700 |
| Other Districts | -- | 200 | -- | 200 | -- | 18.0 | -- | 3,600 |
| Minnesota | 441,000 | 453,000 | 438,000 | 446,000 | 18.2 | 18.5 | 7,971,000 | 8,251,000 |

1/ Counties with less than 1,000 acres planted for all purposes are not listed separately, but are combined under Other Counties or Other Districts. Counties denoted with "--" are also less than 1,000 acres and are included in Other Counties.



**DRY EDIBLE BEANS: ACREAGE, YIELD, AND PRODUCTION, BY COUNTY AND DISTRICT,
MINNESOTA, 1996-97**

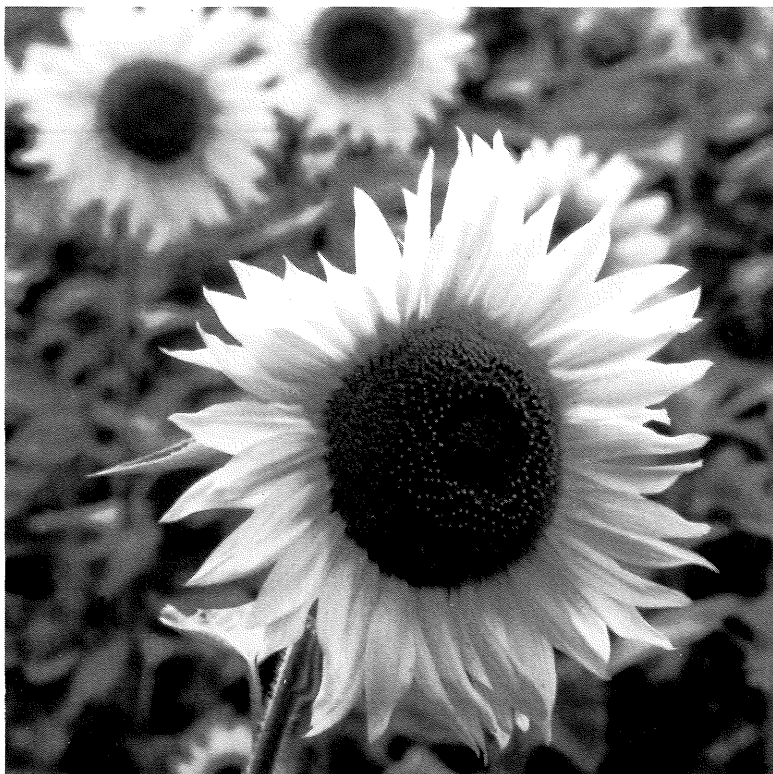
| County and District 1/ | Planted Acreage | | Harvested Acreage | | Yield Per Harvested Acre | | Production | |
|-------------------------------|-----------------|---------|-------------------|---------|-----------------------------|-------|------------|-----------|
| | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 |
| | <u>Acres</u> | | <u>Acres</u> | | <u>Pounds</u> | | <u>Cwt</u> | |
| Becker | 5,500 | 5,000 | 5,400 | 4,900 | 1,400 | 1,500 | 75,600 | 73,500 |
| Clay | 5,600 | 5,400 | 5,500 | 5,300 | 1,400 | 1,600 | 77,000 | 84,800 |
| Kittson | 1,700 | 4,500 | 1,600 | 4,000 | 1,300 | 1,400 | 20,800 | 56,000 |
| Mahnomen | 3,200 | 4,700 | 3,100 | 4,500 | 1,600 | 1,800 | 49,600 | 81,000 |
| Marshall | 17,200 | 20,600 | 16,500 | 17,100 | 1,400 | 1,400 | 231,000 | 239,400 |
| Norman | 5,500 | 6,100 | 5,400 | 5,400 | 1,500 | 1,400 | 81,000 | 75,600 |
| Polk | 41,800 | 41,600 | 40,600 | 36,800 | 1,400 | 1,400 | 568,400 | 515,200 |
| Red Lake | 1,800 | 1,200 | 1,300 | 1,000 | 1,200 | 1,500 | 15,600 | 15,000 |
| Other Counties | 1,200 | 1,900 | 1,100 | 1,500 | 1,100 | 1,400 | 12,100 | 21,000 |
| <u>Northwest</u> | 83,500 | 91,000 | 80,500 | 80,500 | 1,405 | 1,443 | 1,131,100 | 1,161,500 |
| Hubbard | 8,700 | 9,200 | 8,500 | 9,000 | 1,600 | 1,500 | 136,000 | 135,000 |
| Other Counties | 1,200 | 1,100 | 1,100 | 1,000 | 1,691 | 1,560 | 18,600 | 15,600 |
| <u>North Central</u> | 9,900 | 10,300 | 9,600 | 10,000 | 1,610 | 1,506 | 154,600 | 150,600 |
| Chippewa | 1,500 | 1,500 | 1,400 | 1,400 | 1,800 | 1,800 | 25,200 | 25,200 |
| Douglas | 1,300 | -- | 1,200 | -- | 1,700 | -- | 20,400 | -- |
| Grant | 3,700 | 5,800 | 3,600 | 5,600 | 1,800 | 1,800 | 64,800 | 100,800 |
| Otter Tail | 16,000 | 15,800 | 15,900 | 15,600 | 1,800 | 1,600 | 286,200 | 249,600 |
| Pope | 2,300 | 2,600 | 2,200 | 2,300 | 1,500 | 1,700 | 33,000 | 39,100 |
| Stevens | 1,000 | 1,000 | 900 | 900 | 1,900 | 2,000 | 17,100 | 18,000 |
| Swift | 3,000 | 3,300 | 2,900 | 3,100 | 1,700 | 1,800 | 49,300 | 55,800 |
| Wilkin | 2,800 | 3,100 | 2,700 | 3,000 | 1,500 | 1,500 | 40,500 | 45,000 |
| Other Counties | 1,300 | 2,600 | 1,200 | 2,500 | 1,633 | 1,832 | 19,600 | 45,800 |
| <u>West Central</u> | 32,900 | 35,700 | 32,000 | 34,400 | 1,738 | 1,684 | 556,100 | 579,300 |
| Benton | 1,200 | -- | 1,200 | -- | 2,000 | -- | 24,000 | -- |
| Kandiyohi | 4,500 | 4,100 | 4,400 | 3,800 | 1,800 | 1,700 | 79,200 | 64,600 |
| Meeker | -- | 1,000 | -- | 900 | -- | 1,900 | -- | 17,100 |
| Morrison | 3,400 | 4,300 | 3,300 | 4,000 | 1,800 | 1,700 | 59,400 | 68,000 |
| Renville | 4,600 | 4,300 | 4,500 | 3,600 | 2,100 | 1,900 | 94,500 | 68,400 |
| Sherburne | 1,400 | 1,500 | 1,300 | 1,400 | 2,200 | 1,600 | 28,600 | 22,400 |
| Stearns | 2,200 | 2,200 | 2,200 | 2,000 | 1,600 | 1,700 | 35,200 | 34,000 |
| Todd | 1,400 | 1,000 | 1,400 | 900 | 2,000 | 1,800 | 28,000 | 16,200 |
| Wadena | 5,800 | 5,400 | 5,700 | 5,000 | 1,600 | 1,700 | 91,200 | 85,000 |
| Other Counties | 1,300 | 1,600 | 1,200 | 1,500 | 2,008 | 1,787 | 24,100 | 26,800 |
| <u>Central</u> | 25,800 | 25,400 | 25,200 | 23,100 | 1,842 | 1,742 | 464,200 | 402,500 |
| Steele | 1,100 | 1,200 | 1,000 | 1,100 | 1,400 | 1,500 | 14,000 | 16,500 |
| Other Counties | 400 | 300 | 400 | 300 | 1,600 | 1,533 | 6,400 | 4,600 |
| <u>South Central</u> | 1,500 | 1,500 | 1,400 | 1,400 | 1,457 | 1,507 | 20,400 | 21,100 |
| Dodge | 1,700 | 1,500 | 1,700 | 1,400 | 1,400 | 1,600 | 23,800 | 22,400 |
| Goodhue | 1,500 | 2,100 | 1,500 | 1,900 | 1,400 | 1,600 | 21,000 | 30,400 |
| Mower | 1,800 | 1,300 | 1,700 | 1,200 | 1,300 | 1,500 | 22,100 | 18,000 |
| Other Counties | 700 | 700 | 700 | 700 | 1,486 | 1,500 | 10,400 | 10,500 |
| <u>Southeast</u> | 5,700 | 5,600 | 5,600 | 5,200 | 1,380 | 1,563 | 77,300 | 81,300 |
| <u>Other Districts</u> | 700 | 500 | 700 | 400 | 2,043 | 1,675 | 14,300 | 6,700 |
| <u>Minnesota</u> | 160,000 | 170,000 | 155,000 | 155,000 | 1,560 | 1,550 | 2,418,000 | 2,403,000 |

1/ Counties with less than 1,000 acres planted for all purposes are not listed separately, but are combined under Other Counties or Other Districts. Counties denoted with "--" are also less than 1,000 acres and are included in Other Counties.

**ALL SUNFLOWERS: ACREAGE, YIELD, AND PRODUCTION, BY COUNTY AND DISTRICT,
MINNESOTA, 1996-97**

| County and District 1/ | Planted Acreage | | Harvested Acreage | | Yield Per Harvested Acre | | Production | |
|-------------------------------|-----------------|---------|-------------------|--------|-----------------------------|-------|---------------|-------------|
| | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 |
| | <u>Acres</u> | | <u>Acres</u> | | <u>Pounds</u> | | <u>Pounds</u> | |
| Becker | 2,300 | -- | 2,300 | -- | 1,391 | -- | 3,200,000 | -- |
| Clay | 6,000 | 3,900 | 5,800 | 3,800 | 1,674 | 1,274 | 9,710,000 | 4,840,000 |
| Kittson | 22,100 | 13,600 | 20,900 | 12,400 | 1,300 | 959 | 27,170,000 | 11,890,000 |
| Marshall | 25,000 | 17,000 | 23,600 | 15,900 | 1,254 | 1,058 | 29,600,000 | 16,815,000 |
| Norman | 7,800 | 3,500 | 7,500 | 3,300 | 1,526 | 945 | 11,445,000 | 3,120,000 |
| Pennington | 12,200 | 10,400 | 12,000 | 9,900 | 1,086 | 978 | 13,035,000 | 9,680,000 |
| Polk | 30,300 | 13,300 | 29,600 | 12,600 | 1,172 | 977 | 34,680,000 | 12,305,000 |
| Red Lake | 11,200 | 8,500 | 10,900 | 7,400 | 1,186 | 1,038 | 12,925,000 | 7,680,000 |
| Roseau | 13,800 | 17,000 | 13,600 | 16,400 | 1,407 | 1,192 | 19,135,000 | 19,550,000 |
| Other Counties | 1,800 | 1,600 | 1,800 | 1,600 | 1,650 | 1,428 | 2,970,000 | 2,285,000 |
| <u>Northwest</u> | 132,500 | 88,800 | 128,000 | 83,300 | 1,280 | 1,058 | 163,870,000 | 88,165,000 |
| Beltrami | 1,200 | -- | 1,100 | -- | 1,041 | -- | 1,145,000 | -- |
| Other Counties | 700 | 1,200 | 700 | 1,000 | 1,129 | 1,150 | 790,000 | 1,150,000 |
| <u>North Central</u> | 1,900 | 1,200 | 1,800 | 1,000 | 1,075 | 1,150 | 1,935,000 | 1,150,000 |
| Grant | 1,700 | -- | 1,600 | -- | 1,400 | -- | 2,240,000 | -- |
| Otter Tail | 4,300 | 2,700 | 4,200 | 2,600 | 1,275 | 1,204 | 5,355,000 | 3,130,000 |
| Wilkin | 4,400 | 2,800 | 4,300 | 2,700 | 1,388 | 1,200 | 5,970,000 | 3,240,000 |
| Other Counties | 1,100 | 1,000 | 1,100 | 1,000 | 991 | 1,265 | 1,090,000 | 1,265,000 |
| <u>West Central</u> | 11,500 | 6,500 | 11,200 | 6,300 | 1,308 | 1,212 | 14,655,000 | 7,635,000 |
| Morrison | 1,400 | -- | 1,300 | -- | 1,000 | -- | 1,300,000 | -- |
| Other Counties | 1,900 | 2,600 | 1,900 | 2,500 | 1,116 | 1,164 | 2,120,000 | 2,910,000 |
| <u>Central</u> | 3,300 | 2,600 | 3,200 | 2,500 | 1,069 | 1,164 | 3,420,000 | 2,910,000 |
| <u>Other Districts</u> | 800 | 900 | 800 | 900 | 975 | 933 | 780,000 | 840,000 |
| <u>Minnesota</u> | 150,000 | 100,000 | 145,000 | 94,000 | 1,274 | 1,071 | 184,660,000 | 100,700,000 |

1/ Counties with less than 1,000 acres planted for all purposes are not listed separately, but are combined under Other Counties or Other Districts. Counties denoted with "--" are also less than 1,000 acres and are included in Other Counties.



OIL SUNFLOWERS: ACREAGE, YIELD, AND PRODUCTION, BY COUNTY AND DISTRICT, MINNESOTA, 1996-97

| County and District 1/ | Planted Acreage | | Harvested Acreage | | Yield Per Harvested Acre | | Production | |
|------------------------|-----------------|--------|-------------------|--------|--------------------------|-------|---------------|------------|
| | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 |
| | <u>Acres</u> | | <u>Acres</u> | | <u>Pounds</u> | | <u>Pounds</u> | |
| Becker | 2,100 | -- | 2,100 | -- | 1,400 | -- | 2,940,000 | -- |
| Clay | 5,400 | 3,400 | 5,200 | 3,300 | 1,700 | 1,300 | 8,840,000 | 4,290,000 |
| Kittson | 14,300 | 7,900 | 13,500 | 7,300 | 1,300 | 1,000 | 17,550,000 | 7,300,000 |
| Marshall | 19,300 | 14,000 | 18,200 | 13,500 | 1,300 | 1,050 | 23,660,000 | 14,175,000 |
| Norman | 3,400 | 1,600 | 3,300 | 1,500 | 1,750 | 1,000 | 5,775,000 | 1,500,000 |
| Pennington | 9,200 | 8,000 | 9,100 | 7,700 | 1,050 | 1,000 | 9,555,000 | 7,700,000 |
| Polk | 12,900 | 6,800 | 12,800 | 6,700 | 1,200 | 1,000 | 15,360,000 | 6,700,000 |
| Red Lake | 7,100 | 4,700 | 7,000 | 4,000 | 1,150 | 900 | 8,050,000 | 3,600,000 |
| Roseau | 9,800 | 12,800 | 9,700 | 12,600 | 1,450 | 1,250 | 14,065,000 | 15,750,000 |
| Other Counties | 1,500 | 1,500 | 1,500 | 1,500 | 1,720 | 1,457 | 2,580,000 | 2,185,000 |
| Northwest | 85,000 | 60,700 | 82,400 | 58,100 | 1,315 | 1,088 | 108,375,000 | 63,200,000 |
| Other Counties | 1,000 | -- | 900 | -- | 956 | -- | 860,000 | -- |
| North Central | 1,000 | -- | 900 | -- | 956 | -- | 860,000 | -- |
| Grant | 1,700 | -- | 1,600 | -- | 1,400 | -- | 2,240,000 | -- |
| Otter Tail | 3,500 | 2,500 | 3,500 | 2,400 | 1,250 | 1,200 | 4,375,000 | 2,880,000 |
| Wilkin | 3,900 | 2,400 | 3,800 | 2,300 | 1,400 | 1,200 | 5,320,000 | 2,760,000 |
| Other Counties | 1,000 | 900 | 1,000 | 900 | 950 | 1,278 | 950,000 | 1,150,000 |
| West Central | 10,100 | 5,800 | 9,900 | 5,600 | 1,302 | 1,213 | 12,885,000 | 6,790,000 |
| Morrison | 1,400 | -- | 1,300 | -- | 1,000 | -- | 1,300,000 | -- |
| Other Counties | 1,800 | 2,500 | 1,800 | 2,400 | 1,111 | 1,171 | 2,000,000 | 2,810,000 |
| Central | 3,200 | 2,500 | 3,100 | 2,400 | 1,065 | 1,171 | 3,300,000 | 2,810,000 |
| Other Districts | 700 | 1,000 | 700 | 900 | 971 | 1,000 | 680,000 | 900,000 |
| Minnesota | 100,000 | 70,000 | 97,000 | 67,000 | 1,300 | 1,100 | 126,100,000 | 73,700,000 |

1/ Counties with less than 1,000 acres planted for all purposes are not listed separately, but are combined under Other Counties or Other Districts. Counties denoted with "--" are also less than 1,000 acres and are included in Other Counties.

FLAX: ACREAGE, YIELD, AND PRODUCTION, BY COUNTY AND DISTRICT, MINNESOTA, 1996-97

| County and District 1/ | Planted Acreage | | Harvested Acreage | | Yield Per Harvested Acre | | Production | |
|------------------------|-----------------|-------|-------------------|-------|--------------------------|------|----------------|--------|
| | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 |
| | <u>Acres</u> | | <u>Acres</u> | | <u>Bushels</u> | | <u>Bushels</u> | |
| Kittson | -- | 1,400 | -- | 1,400 | -- | 18.0 | -- | 25,200 |
| Marshall | -- | 1,200 | -- | 1,200 | -- | 13.0 | -- | 15,600 |
| Roseau | 1,500 | 2,200 | 1,500 | 2,200 | 16.0 | 13.0 | 24,000 | 28,600 |
| Other Counties | 1,900 | 600 | 1,900 | 600 | 14.6 | 12.3 | 27,800 | 7,400 |
| Northwest | 3,400 | 5,400 | 3,400 | 5,400 | 15.2 | 14.2 | 51,800 | 76,800 |
| Other Districts | 600 | 600 | 600 | 600 | 13.7 | 12.0 | 8,200 | 7,200 |
| Minnesota | 4,000 | 6,000 | 4,000 | 6,000 | 15.0 | 14.0 | 60,000 | 84,000 |

1/ Counties with less than 1,000 acres planted for all purposes are not listed separately, but are combined under Other Counties or Other Districts. Counties denoted with "--" are also less than 1,000 acres and are included in Other Counties.

SWEET CORN FOR PROCESSING: ACREAGE, YIELD, AND PRODUCTION, BY COUNTY AND DISTRICT, MINNESOTA, 1996-97

| County and District 1/ | Planted Acreage | | Harvested Acreage | | Yield Per Harvested Acre | | Production | |
|------------------------|-----------------|---------|-------------------|---------|--------------------------|------|-------------|---------|
| | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 |
| | <u>Acres</u> | | <u>Acres</u> | | <u>Tons</u> | | <u>Tons</u> | |
| Pope | 3,000 | 2,000 | 2,800 | 1,900 | 5.21 | 6.89 | 14,600 | 13,100 |
| Other Counties | 1,400 | 1,600 | 1,400 | 1,600 | 6.50 | 6.19 | 9,100 | 9,900 |
| West Central | 4,400 | 3,600 | 4,200 | 3,500 | 5.64 | 6.57 | 23,700 | 23,000 |
| Kandiyohi | 2,000 | 1,600 | 1,800 | 1,600 | 6.33 | 6.38 | 11,400 | 10,200 |
| McLeod | 2,700 | 3,000 | 2,600 | 2,900 | 5.92 | 5.82 | 15,400 | 16,880 |
| Meeker | 1,200 | 1,400 | 900 | 1,400 | 6.11 | 6.21 | 5,500 | 8,700 |
| Renville | 25,100 | 24,200 | 23,400 | 24,000 | 6.43 | 6.10 | 150,500 | 146,400 |
| Sherburne | 1,500 | 2,000 | 1,400 | 2,000 | 5.21 | 6.40 | 7,300 | 12,800 |
| Sibley | 6,700 | 6,700 | 6,500 | 6,600 | 5.52 | 5.91 | 35,900 | 39,000 |
| Stearns | 1,800 | 1,900 | 1,300 | 1,900 | 6.92 | 6.58 | 9,000 | 12,500 |
| Other Counties | 800 | 1,200 | 500 | 1,200 | 5.20 | 6.08 | 2,600 | 7,300 |
| Central | 41,800 | 42,000 | 38,400 | 41,600 | 6.19 | 6.10 | 237,600 | 253,780 |
| Redwood | 6,400 | 5,700 | 6,200 | 5,600 | 7.23 | 6.20 | 44,800 | 34,700 |
| Other Counties | 100 | 100 | 100 | 100 | 5.00 | 6.00 | 500 | 600 |
| Southwest | 6,500 | 5,800 | 6,300 | 5,700 | 7.19 | 6.19 | 45,300 | 35,300 |
| Blue Earth | 1,900 | 1,300 | 1,700 | 1,300 | 5.65 | 6.08 | 9,600 | 7,900 |
| Brown | 10,600 | 10,000 | 10,300 | 9,900 | 6.32 | 6.90 | 65,100 | 68,300 |
| Faribault | 8,800 | 7,900 | 8,500 | 7,800 | 6.35 | 6.29 | 54,000 | 49,100 |
| Freeborn | 6,400 | 6,700 | 6,200 | 6,700 | 5.39 | 6.70 | 33,400 | 44,900 |
| Le Sueur | 1,200 | 1,600 | 900 | 1,600 | 7.78 | 6.00 | 7,000 | 9,600 |
| Martin | 1,900 | 2,200 | 1,800 | 2,200 | 6.00 | 6.18 | 10,800 | 13,600 |
| Nicollet | 3,000 | 3,400 | 2,900 | 3,300 | 6.41 | 6.21 | 18,600 | 20,500 |
| Steele | 3,300 | 4,000 | 3,100 | 4,000 | 6.65 | 7.10 | 20,600 | 28,400 |
| Waseca | 4,600 | 4,600 | 4,500 | 4,600 | 6.67 | 7.50 | 30,000 | 34,500 |
| Other Counties | 800 | 800 | 800 | 800 | 6.38 | 6.25 | 5,100 | 5,000 |
| South Central | 42,500 | 42,500 | 40,700 | 42,200 | 6.25 | 6.68 | 254,200 | 281,800 |
| Dakota | 4,100 | 4,600 | 3,900 | 4,500 | 5.56 | 6.40 | 21,700 | 28,800 |
| Dodge | 5,100 | 4,900 | 4,400 | 4,800 | 5.68 | 6.60 | 25,000 | 31,700 |
| Goodhue | 4,700 | 4,900 | 4,500 | 4,800 | 5.51 | 6.71 | 24,800 | 32,200 |
| Mower | 5,700 | 6,100 | 5,600 | 6,000 | 5.25 | 6.50 | 29,400 | 39,000 |
| Olmsted | 6,600 | 7,700 | 6,500 | 7,600 | 4.40 | 6.00 | 28,600 | 45,600 |
| Wabasha | 3,900 | 3,900 | 3,600 | 3,900 | 4.97 | 6.69 | 17,900 | 26,100 |
| Other Counties | 1,400 | 1,700 | 1,400 | 1,700 | 6.00 | 6.65 | 8,400 | 11,300 |
| Southeast | 31,500 | 33,800 | 29,900 | 33,300 | 5.21 | 6.45 | 155,800 | 214,700 |
| Other Districts | 800 | 900 | 600 | 900 | 4.67 | 6.11 | 2,800 | 5,500 |
| Minnesota | 127,500 | 128,600 | 120,100 | 127,200 | 5.99 | 6.40 | 719,400 | 814,080 |

1/ Counties with less than 1,000 acres planted for all purposes are not listed separately, but are combined under Other Counties or Other Districts.



GREEN PEAS FOR PROCESSING: ACREAGE, YIELD, AND PRODUCTION, BY COUNTY AND DISTRICT, MINNESOTA, 1996-97

| County and District 1/ | Planted Acreage | | Harvested Acreage | | Yield Per Harvested Acre | | Production | |
|------------------------|-----------------|--------|-------------------|--------|--------------------------|------|-------------|---------|
| | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 |
| | <u>Acres</u> | | <u>Acres</u> | | <u>Tons</u> | | <u>Tons</u> | |
| Other Counties | -- | 2,000 | -- | 1,800 | -- | 1.22 | -- | 2,200 |
| <u>Northwest</u> | -- | 2,000 | -- | 1,800 | -- | 1.22 | -- | 2,200 |
| Other Counties | -- | 1,400 | -- | 1,300 | -- | 1.38 | -- | 1,800 |
| <u>West Central</u> | -- | 1,400 | -- | 1,300 | -- | 1.38 | -- | 1,800 |
| Kandiyohi | 1,400 | 1,900 | 1,200 | 1,500 | 1.27 | 1.00 | 1,530 | 1,500 |
| McLeod | 1,400 | 1,400 | 1,300 | 900 | 1.54 | 1.44 | 2,000 | 1,300 |
| Meeker | 1,900 | 2,000 | 1,600 | 1,700 | 1.69 | 1.18 | 2,700 | 2,000 |
| Renville | 13,700 | 14,100 | 13,000 | 11,600 | 1.45 | 1.30 | 18,900 | 15,100 |
| Sibley | 5,800 | 6,000 | 5,600 | 5,100 | 1.50 | 1.20 | 8,400 | 6,100 |
| Other Counties | 1,200 | 1,600 | 1,100 | 1,300 | 1.64 | 1.38 | 1,800 | 1,800 |
| <u>Central</u> | 25,400 | 27,000 | 23,800 | 22,100 | 1.48 | 1.26 | 35,330 | 27,800 |
| Redwood | 2,800 | 2,900 | 2,600 | 2,600 | 1.92 | 1.38 | 5,000 | 3,600 |
| Other Counties | 100 | 100 | 100 | 100 | 2.00 | 1.00 | 200 | 100 |
| <u>Southwest</u> | 2,900 | 3,000 | 2,700 | 2,700 | 1.93 | 1.37 | 5,200 | 3,700 |
| Blue Earth | 3,000 | 2,900 | 2,700 | 2,500 | 1.59 | 1.32 | 4,300 | 3,300 |
| Brown | 6,700 | 6,800 | 6,500 | 5,900 | 1.45 | 1.68 | 9,400 | 9,900 |
| Faribault | 3,500 | 2,900 | 3,400 | 2,400 | 1.88 | 1.42 | 6,400 | 3,400 |
| Freeborn | 1,700 | 2,400 | 1,400 | 1,600 | 1.36 | 1.50 | 1,900 | 2,400 |
| Le Sueur | 1,600 | 1,700 | 1,500 | 1,500 | 1.33 | 1.00 | 2,000 | 1,500 |
| Martin | 2,000 | 2,200 | 1,800 | 1,600 | 1.28 | 1.13 | 2,300 | 1,800 |
| Nicollet | 2,400 | 2,200 | 2,300 | 1,600 | 1.52 | 1.19 | 3,500 | 1,900 |
| Steele | 3,400 | 3,800 | 3,300 | 3,400 | 1.79 | 1.68 | 5,900 | 5,700 |
| Waseca | 2,700 | 2,500 | 2,400 | 2,100 | 1.92 | 1.38 | 4,600 | 2,900 |
| Other Counties | 1,300 | 1,800 | 1,200 | 1,600 | 1.58 | 1.50 | 1,900 | 2,400 |
| <u>South Central</u> | 28,300 | 29,200 | 26,500 | 24,200 | 1.59 | 1.45 | 42,200 | 35,200 |
| Dakota | 3,700 | 4,500 | 3,500 | 3,900 | 1.40 | 1.41 | 4,900 | 5,500 |
| Dodge | 3,400 | 3,200 | 3,200 | 3,100 | 1.47 | 1.81 | 4,700 | 5,600 |
| Goodhue | 3,200 | 3,400 | 3,100 | 2,500 | 2.06 | 1.72 | 6,400 | 4,300 |
| Mower | 6,800 | 7,900 | 6,000 | 6,000 | 1.40 | 1.80 | 8,400 | 10,800 |
| Olmsted | 4,000 | 4,500 | 3,800 | 3,900 | 1.84 | 1.97 | 7,000 | 7,700 |
| Wabasha | 1,800 | 1,700 | 1,700 | 1,600 | 2.06 | 1.88 | 3,500 | 3,000 |
| Other Counties | 1,900 | 2,000 | 1,800 | 1,900 | 1.94 | 1.84 | 3,500 | 3,500 |
| <u>Southeast</u> | 24,800 | 27,200 | 23,100 | 22,900 | 1.66 | 1.76 | 38,400 | 40,400 |
| <u>Other Districts</u> | 1,500 | 200 | 1,400 | 200 | 1.50 | 1.00 | 2,100 | 200 |
| <u>Minnesota</u> | 82,900 | 90,000 | 77,500 | 75,200 | 1.59 | 1.48 | 123,230 | 111,300 |

1/ Counties with less than 1,000 acres planted for all purposes are not listed separately, but are combined under Other Counties or Other Districts.



GRAIN AND HAY STOCKS: SPECIFIED CROPS BY STORAGE POSITION, MINNESOTA, 1994-98

| Year | On Farm | | | | All Storage Positions | | | |
|-----------|---------------|---------|---------|---------|--------------------------------------|---------|---------|---------|
| | Mar | Jun | Sep | Dec | Mar | June | Sep | Dec |
| Corn | | | | | | | | |
| | 1,000 Bushels | | | | | | | |
| 1994 | 240,000 | 140,000 | 50,000 | 640,000 | 355,784 | 231,367 | 94,725 | 827,942 |
| 1995 | 495,000 | 350,000 | 120,000 | 500,000 | 647,694 | 460,629 | 228,852 | 670,212 |
| 1996 | 320,000 | 145,000 | 25,000 | 555,000 | 471,643 | 221,883 | 44,204 | 689,934 |
| 1997 | 390,000 | 210,000 | 55,000 | 580,000 | 500,616 | 288,486 | 98,454 | 742,876 |
| 1998 | 410,000 | | | | 544,078 | | | |
| Soybeans | | | | | | | | |
| | 1,000 Bushels | | | | | | | |
| 1994 | 64,500 | 30,000 | 11,000 | 119,000 | 104,945 | 59,789 | 25,768 | 202,333 |
| 1995 | 100,000 | 67,000 | 19,500 | 125,000 | 163,393 | 109,719 | 54,583 | 205,592 |
| 1996 | 90,000 | 52,000 | 11,000 | 120,000 | 150,941 | 91,078 | 22,171 | 182,877 |
| 1997 | 84,000 | 37,000 | 6,300 | 145,000 | 127,983 | 62,567 | 13,888 | 211,474 |
| 1998 | 100,000 | | | | 141,869 | | | |
| All Wheat | | | | | | | | |
| | 1,000 Bushels | | | | | | | |
| 1994 | 35,000 | 16,000 | 60,000 | 46,000 | 69,922 | 48,912 | 98,551 | 79,610 |
| 1995 | 32,000 | 16,000 | 60,000 | 42,000 | 63,837 | 41,716 | 97,934 | 76,419 |
| 1996 | 22,000 | 5,000 | 90,000 | 60,000 | 55,179 | 27,154 | 120,228 | 84,769 |
| 1997 | 34,000 | 20,000 | 65,000 | 52,000 | 56,256 | 36,725 | 96,969 | 80,557 |
| 1998 | 30,000 | | | | 55,115 | | | |
| Oats | | | | | | | | |
| | 1,000 Bushels | | | | | | | |
| 1994 | 11,000 | 8,000 | 17,000 | 14,000 | 27,901 | 26,848 | 39,389 | 44,622 |
| 1995 | 12,000 | 7,500 | 13,000 | 11,000 | 39,462 | 28,502 | 32,182 | 31,282 |
| 1996 | 7,000 | 3,500 | 11,000 | 9,000 | 24,024 | 13,962 | 20,123 | 24,826 |
| 1997 | 7,000 | 3,000 | 11,000 | 9,000 | 18,736 | 10,881 | 21,037 | 26,632 |
| 1998 | 6,400 | | | | 21,675 | | | |
| Barley | | | | | | | | |
| | 1,000 Bushels | | | | | | | |
| 1994 | 13,000 | 8,000 | 19,000 | 14,000 | 32,500 | 25,039 | 40,140 | 38,239 |
| 1995 | 9,000 | 5,900 | 18,000 | 13,500 | 35,616 | 27,958 | 44,110 | 40,005 |
| 1996 | 8,500 | 4,000 | 21,000 | 16,500 | 39,634 | 26,220 | 43,375 | 39,662 |
| 1997 | 12,000 | 5,500 | 17,000 | 12,500 | 33,351 | 27,654 | 38,831 | 34,936 |
| 1998 | 7,500 | | | | 32,393 | | | |
| All Hay | | | | | | | | |
| | 1,000 Tons | | | | | | | |
| 1994 | | | 716 | 4,895 | Off-Farm Hay Stocks Not Estimated | | | |
| 1995 | | | 753 | 4,374 | | | | |
| 1996 | | | 694 | 4,018 | | | | |
| 1997 | | | 540 | 3,700 | | | | |
| 1998 | | | 620 | | | | | |

Note: All estimates are for the first of the month.

CROP MARKETINGS: PERCENT MARKETED BY MONTH, MINNESOTA, 1993-97

| Crop Marketing Year | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Corn | | | | | | | | | | | | |
| | Percent | | | | | | | | | | | |
| 1993-94 | 11 | 14 | 10 | 8 | 5 | 8 | 6 | 8 | 8 | 8 | 8 | 6 |
| 1994-95 | 6 | 11 | 6 | 7 | 4 | 5 | 5 | 6 | 12 | 14 | 13 | 11 |
| 1995-96 | 17 | 11 | 6 | 10 | 7 | 8 | 10 | 9 | 9 | 7 | 3 | 3 |
| 1996-97 | 10 | 13 | 7 | 10 | 8 | 7 | 7 | 7 | 7 | 9 | 9 | 6 |
| | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug |
| Soybeans | | | | | | | | | | | | |
| | Percent | | | | | | | | | | | |
| 1993-94 | 5 | 18 | 9 | 10 | 7 | 5 | 8 | 6 | 11 | 6 | 8 | 7 |
| 1994-95 | 4 | 16 | 8 | 7 | 7 | 6 | 7 | 7 | 10 | 8 | 13 | 7 |
| 1995-96 | 10 | 20 | 8 | 6 | 7 | 5 | 8 | 7 | 5 | 8 | 10 | 6 |
| 1996-97 | 6 | 25 | 5 | 6 | 14 | 7 | 7 | 8 | 7 | 5 | 5 | 5 |
| Dry Edible Beans | | | | | | | | | | | | |
| | Percent | | | | | | | | | | | |
| 1993-94 | 17 | 33 | 14 | 8 | 6 | 2 | 3 | 3 | 4 | 8 | 2 | 0 |
| 1994-95 | 41 | 16 | 7 | 8 | 6 | 4 | 7 | 3 | 2 | 4 | 1 | 1 |
| 1995-96 | 30 | 16 | 8 | 5 | 5 | 6 | 15 | 4 | 3 | 4 | 1 | 3 |
| 1996-97 | 34 | 19 | 7 | 3 | 3 | 2 | 3 | 5 | 10 | 8 | 4 | 2 |
| | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun |
| All Wheat | | | | | | | | | | | | |
| | Percent | | | | | | | | | | | |
| 1993-94 | 6 | 5 | 10 | 9 | 10 | 12 | 9 | 9 | 10 | 7 | 8 | 5 |
| 1994-95 | 9 | 14 | 10 | 8 | 7 | 10 | 8 | 5 | 5 | 7 | 9 | 8 |
| 1995-96 | 7 | 16 | 11 | 6 | 7 | 11 | 9 | 6 | 10 | 6 | 6 | 5 |
| 1996-97 | 3 | 17 | 14 | 7 | 6 | 10 | 11 | 7 | 9 | 10 | 3 | 3 |
| Oats | | | | | | | | | | | | |
| | Percent | | | | | | | | | | | |
| 1993-94 | 10 | 30 | 14 | 9 | 3 | 4 | 4 | 4 | 7 | 6 | 5 | 4 |
| 1994-95 | 22 | 29 | 9 | 4 | 2 | 5 | 4 | 3 | 5 | 5 | 5 | 7 |
| 1995-96 | 15 | 29 | 10 | 5 | 5 | 6 | 4 | 5 | 5 | 7 | 4 | 5 |
| 1996-97 | 18 | 30 | 12 | 4 | 4 | 3 | 4 | 4 | 4 | 7 | 6 | 4 |
| Barley | | | | | | | | | | | | |
| | Percent | | | | | | | | | | | |
| 1993-94 | 6 | 11 | 8 | 7 | 9 | 12 | 8 | 8 | 13 | 6 | 4 | 8 |
| 1994-95 | 10 | 19 | 10 | 5 | 7 | 12 | 9 | 5 | 7 | 7 | 4 | 5 |
| 1995-96 | 9 | 13 | 11 | 7 | 13 | 11 | 10 | 6 | 4 | 5 | 2 | 9 |
| 1996-97 | 6 | 14 | 14 | 4 | 6 | 7 | 11 | 12 | 8 | 7 | 5 | 6 |
| | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May |
| All Hay | | | | | | | | | | | | |
| | Percent | | | | | | | | | | | |
| 1993-94 | 17 | 12 | 13 | 13 | 5 | 6 | 4 | 4 | 7 | 12 | 4 | 3 |
| 1994-95 | 17 | 12 | 13 | 13 | 5 | 6 | 4 | 4 | 7 | 12 | 4 | 3 |
| 1995-96 | 8 | 11 | 11 | 12 | 7 | 2 | 6 | 7 | 10 | 13 | 5 | 8 |
| 1996-97 | 8 | 11 | 10 | 11 | 7 | 2 | 6 | 8 | 9 | 14 | 5 | 9 |



CULTIVATED WILD RICE

Wild Rice is the only cereal grain native to the United States. In 1977, the State Legislature designated wild rice as Minnesota's official State Grain.

The cultivated crop is grown in the northern one-third of the state on an estimated 18,500 acres in the counties of Aitkin, Beltrami, Cass, Clearwater, Crow Wing, Itasca, Koochiching, Lake of the Woods, Polk, and Pennington.

In 1997, cultivated wild rice production was 6.2 million processed pounds, up 9% from 1996.

SOURCE: MINNESOTA CULTIVATED WILD RICE COUNCIL

MINNESOTA FERTILIZER USE

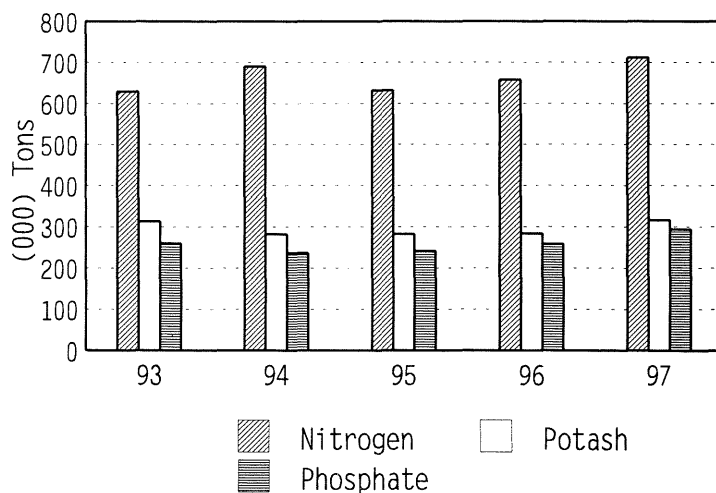
Minnesota fertilizer consumption totaled 2.4 million tons for the year ending June 30, 1997, an increase of 9% from the previous year. Minnesota was the 7th ranking state in total tonnage.

Usage of the primary nutrients is shown on the chart; nitrogen increased 8% from 1996, while phosphate (P_2O_5) usage was up 12% and potash (K_2O) usage increased 11%.

Fertilizer consumption represents all commercial fertilizer sold or shipped for farm and non-farm use as fertilizer.

SOURCE: THE ASSOCIATION OF AMERICAN PLANT FOOD CONTROL OFFICIALS, UNIVERSITY OF KENTUCKY

MINNESOTA'S USE OF PRIMARY NUTRIENTS AS FERTILIZER

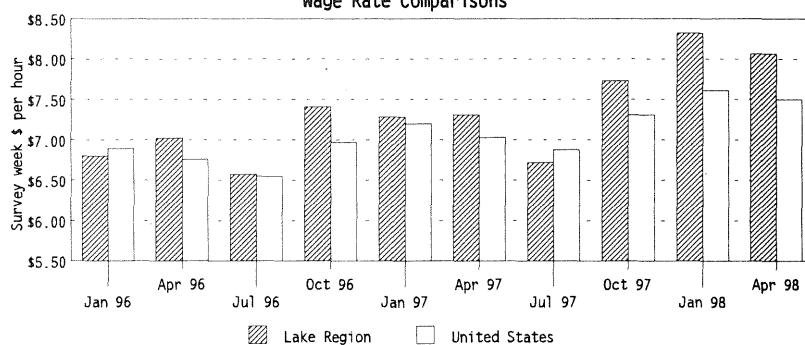


FARM LABOR

The purpose of the quarterly Agriculture Labor Survey is to provide regional and national estimates of the number of farm workers and hours worked as well as wage rates. The data are used to determine farm labor's effect on production costs, evaluate the impact of wage rate changes, establish assistance for farm workers, and to define the nation's need for farm labor.

In April 1991, state level estimates of all farm workers, the number of hired workers, and their average wage rates became available. The survey week for each quarter is the week that includes the twelfth day of the month. Beginning in 1996, only U.S. and regional data are available on a quarterly basis. State level wage rate data are available annually for the October survey period.

ALL HIRED WORKERS
Wage Rate Comparisons



HIRED WORKERS: ANNUAL AVERAGE WAGE RATES, MINNESOTA, 1993-97

| Year | All Hired | Field | Field & Livestock |
|-------------------------|-----------|-------|-------------------|
| <u>Dollars Per Hour</u> | | | |
| 1993 | 6.78 | 7.13 | 6.24 |
| 1994 | 6.44 | 6.57 | 6.04 |
| 1995 | 6.91 | 6.84 | 6.61 |
| 1996 | 7.85 | 7.75 | 7.44 |
| 1997 | 8.45 | 9.02 | 8.08 |

FARM LABOR: FARM WORKERS AND WAGES BY TYPE OF WORK, LAKE REGION, 1996-98 1/

| Year and Month | Hired Workers and Hours Worked | | | | Wages, Type of Work | | | |
|----------------|--------------------------------|----------------------------|---------------------|------------------------------|-------------------------|-------|-----------|----------------------|
| | Number of Workers | Expected To Be Employed | | Number of Hours Worked | All Hired | Field | Livestock | Field & Livestock |
| | | 150 Days or More | 149 Days or Less | | | | | |
| | <u>1,000 Workers</u> | | | | <u>Dollars Per Hour</u> | | | |
| 1996 | | | | | | | | |
| January | 40 | 33 | 7 | 33.9 | 6.80 | 6.97 | 5.68 | 5.97 |
| April | 59 | 44 | 15 | 36.7 | 7.02 | 6.78 | 6.39 | 6.56 |
| July | 81 | 51 | 30 | 35.5 | 6.57 | 6.51 | 6.02 | 6.31 |
| October | 67 | 40 | 27 | 37.7 | 7.41 | 7.56 | 6.47 | 7.13 |
| 1997 | | | | | | | | |
| January | 44 | 39 | 5 | 37.1 | 7.28 | 7.74 | 6.20 | 6.66 |
| April | 63 | 50 | 13 | 33.5 | 7.31 | 7.50 | 6.56 | 6.91 |
| July | 70 | 43 | 27 | 35.1 | 6.72 | 6.56 | 6.10 | 6.35 |
| October | 80 | 48 | 32 | 41.3 | 7.73 | 7.85 | 6.01 | 7.28 |
| 1998 | | | | | | | | |
| January | 41 | 35 | 6 | 32.1 | 8.32 | 7.74 | 7.16 | 7.35 |
| April | 59 | 46 | 13 | 33.7 | 8.06 | 7.39 | 7.43 | 7.41 |

1/ Lake Region = Minnesota, Michigan, Wisconsin.

Section 3

Livestock, Dairy, Poultry



LIVESTOCK SUMMARY

Cattle on Minnesota farms on January 1, 1998, were 7% below a year earlier. Minnesota's 1997 calf crop at 950,000 was 5% below 1996. Meanwhile, sheep and lambs were down 6% from January 1, 1997. The inventory of all hogs on December 1, 1997, was 13% above the previous year. Farrowings at 1,000,000 head in 1997 were up 6% from the previous year. A crop of 8,829,000 pigs was produced in the state during 1997, an increase of 7% from 1996. The average annual litter rate of 8.83 was a record high for the state. All chickens on farms were down 2% from a year earlier.

The combined value of all livestock and poultry on Minnesota farms was over \$2.1 billion in 1997. All cattle and calves, valued at \$1.6 billion, were 4% below a year earlier. The value of hogs on hand on December 1, 1997, accounted for \$459 million, down 3%; all sheep and lambs, \$17.9 million, down 1%; and all chickens, \$28.0 million, up 24%.

Cattle and beef cow operations remained steady, while milk cow operations dropped 1,000 from a year ago. Hog operations dropped 200 and sheep operations dropped 300.



LIVESTOCK: JANUARY 1 INVENTORY, MINNESOTA, 1994-98

| Year | All Cattle | Cattle on Feed | Milk Cows | Beef Cows | Hogs 1/ | All Sheep |
|------|------------|----------------|------------|-----------|---------|-----------|
| | | | 1,000 Head | | | |
| 1994 | 2,700 | 330 | 620 | 380 | 4,750 | 213 |
| 1995 | 2,800 | 310 | 600 | 420 | 4,850 | 190 |
| 1996 | 2,900 | 335 | 600 | 440 | 4,950 | 185 |
| 1997 | 2,800 | 300 | 595 | 405 | 4,850 | 180 |
| 1998 | 2,600 | 275 | 570 | 400 | 5,500 | 170 |

1/ Inventory as of December 1 previous year.

LIVESTOCK: NUMBER OF OPERATIONS, MINNESOTA, 1993-97 1/

| Year | Number of Operations With | | | | | |
|------|---------------------------|----------------|------------|-----------|--------|-----------|
| | All Cattle | Cattle on Feed | Milk Cows | Beef Cows | Hogs | All Sheep |
| | | | Operations | | | |
| 1993 | 38,000 | 8,000 | 13,500 | 16,000 | 14,000 | 4,000 |
| 1994 | 38,000 | 8,000 | 12,500 | 16,000 | 14,000 | 3,600 |
| 1995 | 37,000 | 8,000 | 12,000 | 16,000 | 12,000 | 3,500 |
| 1996 | 36,000 | 2/ | 11,000 | 16,000 | 11,000 | 3,300 |
| 1997 | 36,000 | | 10,000 | 16,000 | 10,800 | 3,000 |

1/ An operation is any farm having one or more head of livestock on hand at any time during the year. Addition may exceed total farms in the state.

2/ Number of Operations for Cattle on Feed discontinued.

LIVESTOCK, DAIRY, AND POULTRY: PRODUCTION RECORDS, MINNESOTA AND UNITED STATES

| Item | Number | Record High Date | Item | Number | Record High Date |
|--------------------------------|-------------|------------------|--|-------------|------------------|
| All Cattle Inventories: | | Jan 1, | Annual Pig Crop: | | |
| Minnesota | 4,518,000 | 1964 & 1965 | Minnesota | 8,937,000 | 1980 |
| United States | 132,028,000 | 1975 | United States | 121,807,000 | 1944 |
| Beef Cows: | | | Annual Milk Production: | | |
| Minnesota | 751,000 | 1976 | (Mil. Lbs.) | | |
| United States | 45,712,000 | 1975 | Minnesota | 11,155 | 1964 |
| Milk Cows: | | | United States | 155,425 | 1995 |
| Minnesota | 1,893,000 | 1934 | Milk Production Per Cow (Lbs.): | | |
| United States | 27,770,000 | 1945 | Minnesota | 15,798 | 1997 |
| Cattle on Feed: | | Jan 1, | United States | 16,916 | 1997 |
| Minnesota | 589,000 | 1970 | All Sheep And Lambs: | | Jan 1, |
| United States | 14,432,000 | 1973 | Minnesota | 1,496,000 | 1943 |
| Calves Born: | | | United States | 56,213,000 | 1942 |
| Minnesota | 1,867,000 | 1944 | Breeding Sheep: | | Jan 1, |
| United States | 50,873,000 | 1974 | Minnesota | 1,201,000 | 1942 & 1943 |
| All Hogs by Qtr: | | | United States | 49,346,000 | 1942 |
| March 1: 1/ | | | Lamb Crop: | | |
| Minnesota | 5,500,000 | 1998 | Minnesota | 1,015,000 | 1942 |
| June 1: 2/ | | | United States | 32,610,000 | 1941 |
| Minnesota | 5,928,000 | 1951 | All Chickens: | | Dec 1, |
| September 1: 1/ | | | Minnesota | 31,742,000 | 1944 |
| Minnesota | 5,518,000 | 1955 | United States | 582,197,000 | 1944 |
| December 1: 1/ | | | Eggs Per Layer: | | |
| Minnesota | 5,500,000 | 1997 | Minnesota | 260 | 1992 |
| United States | 83,741,000 | 1944 | United States | 256 | 1996 |
| Annual Pigs Per Litter: | | | Turkeys Raised: | | |
| Minnesota | 8.83 | 1997 | Minnesota | 46,300,000 | 1990 |
| United States | 8.63 | 1997 | United States | 302,708,000 | 1996 |

1/ March 1, September 1, and December 1 data available since 1954.

2/ June 1 estimates were started in 1950.



CATTLE: OPERATIONS AND INVENTORY BY SIZE GROUPS, MINNESOTA, 1993-97

| Year | Percent of Operations Having: | | | | | Percent of Inventory on Operations Having: | | | | |
|------|-------------------------------|------------|--------------|--------------|-------------|--|------------|--------------|--------------|-------------|
| | 1-49 Head | 50-99 Head | 100-499 Head | 500-999 Head | 1,000+ Head | 1-49 Head | 50-99 Head | 100-499 Head | 500-999 Head | 1,000+ Head |
| | <u>Percent</u> | | | | | <u>Percent</u> | | | | |
| 1993 | 46.3 | 29.2 | 23.7 | 0.5 | 0.3 | 13.0 | 26.0 | 51.0 | 5.0 | 5.0 |
| 1994 | 46.8 | 28.7 | 23.7 | 0.5 | 0.3 | 13.0 | 26.0 | 51.0 | 5.0 | 5.0 |
| 1995 | 45.7 | 28.6 | 24.6 | 0.8 | 0.3 | 12.0 | 26.0 | 50.0 | 7.0 | 5.0 |
| 1996 | 44.7 | 28.6 | 25.6 | 0.8 | 0.3 | 11.0 | 24.0 | 53.0 | 7.0 | 5.0 |
| 1997 | 44.7 | 28.3 | 25.9 | 0.8 | 0.3 | 11.0 | 24.0 | 53.0 | 7.0 | 5.0 |

BEEF COWS: OPERATIONS AND INVENTORY BY SIZE GROUPS, MINNESOTA, 1993-97

| Year | Percent of Operations Having: | | | | Percent of Inventory on Operations Having: | | | |
|------|-------------------------------|------------|--------------|-----------|--|------------|--------------|-----------|
| | 1-49 Head | 50-99 Head | 100-499 Head | 500+ Head | 1-49 Head | 50-99 Head | 100-499 Head | 500+ Head |
| | <u>Percent</u> | | | | <u>Percent</u> | | | |
| 1993 | 84.4 | 12.5 | 3.0 | 0.1 | 49.0 | 32.0 | 16.0 | 3.0 |
| 1994 | 84.4 | 12.5 | 3.0 | 0.1 | 51.0 | 30.0 | 16.0 | 3.0 |
| 1995 | 84.4 | 12.5 | 3.0 | 0.1 | 52.0 | 29.0 | 15.0 | 4.0 |
| 1996 | 84.4 | 12.5 | 3.0 | 0.1 | 50.0 | 30.0 | 16.0 | 4.0 |
| 1997 | 83.8 | 13.1 | 3.0 | 0.1 | 48.0 | 32.0 | 16.0 | 4.0 |

MILK COWS: OPERATIONS AND INVENTORY BY SIZE GROUPS, MINNESOTA, 1993-97

| Year | Percent of Operations Having: | | | | | Percent of Inventory on Operations Having: | | | | |
|------|-------------------------------|------------|------------|--------------|-----------|--|------------|------------|--------------|-----------|
| | 1-29 Head | 30-49 Head | 50-99 Head | 100-199 Head | 200+ Head | 1-29 Head | 30-49 Head | 50-99 Head | 100-199 Head | 200+ Head |
| | <u>Percent</u> | | | | | <u>Percent</u> | | | | |
| 1993 | 24.5 | 40.0 | 29.6 | 5.4 | 0.5 | 9.4 | 32.5 | 41.4 | 14.0 | 2.7 |
| 1994 | 23.2 | 37.6 | 32.8 | 5.8 | 0.6 | 8.9 | 31.0 | 42.0 | 15.0 | 3.1 |
| 1995 | 20.8 | 37.5 | 34.2 | 6.5 | 1.0 | 7.8 | 28.0 | 43.0 | 16.0 | 5.2 |
| 1996 | 19.1 | 37.3 | 34.6 | 7.5 | 1.5 | 7.0 | 26.0 | 41.0 | 17.0 | 9.0 |
| 1997 | 17.0 | 36.0 | 36.0 | 8.5 | 2.5 | 6.0 | 23.0 | 41.0 | 17.0 | 13.0 |

HOGS: OPERATIONS AND INVENTORY BY SIZE GROUPS, MINNESOTA, 1993-97

| Year | Percent of Operations Having: | | | | | Percent of Inventory on Operations Having: | | | | |
|------|-------------------------------|--------------|--------------|------------------|-------------|--|--------------|--------------|------------------|-------------|
| | 1-99 Head | 100-499 Head | 500-999 Head | 1,000-1,999 Head | 2,000+ Head | 1-99 Head | 100-499 Head | 500-999 Head | 1,000-1,999 Head | 2,000+ Head |
| | <u>Percent</u> | | | | | <u>Percent</u> | | | | |
| 1993 | 42.2 | 37.1 | 12.9 | 5.4 | 2.4 | 4.0 | 25.0 | 25.0 | 20.0 | 26.0 |
| 1994 | 42.9 | 37.1 | 12.1 | 5.0 | 2.9 | 4.0 | 25.0 | 22.0 | 20.0 | 29.0 |
| 1995 | 46.7 | 30.8 | 12.5 | 6.7 | 3.3 | 3.0 | 18.0 | 20.0 | 22.0 | 37.0 |
| 1996 | 45.5 | 30.0 | 12.7 | 7.3 | 4.5 | 3.0 | 15.0 | 18.0 | 22.0 | 42.0 |
| 1997 | 45.3 | 28.7 | 13.0 | 7.9 | 5.1 | 3.0 | 13.0 | 16.0 | 23.0 | 45.0 |

LIVESTOCK AND POULTRY: INVENTORY AND VALUES, MINNESOTA, 1996-98

| Class | Number on Farms | | | Value per Head | | | Total Inventory Value | | |
|--|-------------------|--------|--------|----------------|--------|--------|-----------------------|-----------|-----------|
| | 1996 | 1997 | 1998 | 1996 | 1997 | 1998 | 1996 | 1997 | 1998 |
| | <u>1,000 Head</u> | | | <u>Dollars</u> | | | <u>1,000 Dollars</u> | | |
| All Cattle & Calves, Jan 1 | 2,900 | 2,800 | 2,600 | 590.00 | 610.00 | 630.00 | 1,711,000 | 1,708,000 | 1,638,000 |
| Total Cows That Have Calved | 1,040 | 1,000 | 970 | | | | | | |
| Beef Cows | 440 | 405 | 400 | | | | | | |
| Milk Cows | 600 | 595 | 570 | | | | | | |
| Total Heifers 500 + Lbs. | 660 | 650 | 590 | | | | | | |
| Beef Replacement | 95 | 90 | 85 | | | | | | |
| Milk Replacement | 330 | 330 | 295 | | | | | | |
| Other | 235 | 230 | 210 | | | | | | |
| Steers 500 Lbs. + | 570 | 520 | 475 | | | | | | |
| Bulls 500 Lbs. + | 40 | 40 | 35 | | | | | | |
| Calves Under 500 Lbs. | 590 | 590 | 530 | | | | | | |
| Cattle & Calves on Feed, Jan 1 | 335 | 300 | 275 | | | | | | |
| Calf Crop | 1,000 | 950 | -- | | | | | | |
| All Hogs & Pigs, Dec 1 1/ | 4,950 | 4,850 | 5,500 | 74.00 | 98.00 | 85.00 | 366,300 | 475,300 | 459,000 |
| Market Hogs & Pigs, Dec 1 1/ | 4,400 | 4,310 | 4,880 | | | | | | |
| Breeding Hogs, Dec 1 1/ | 550 | 540 | 620 | | | | | | |
| Annual Pig Crop | 8,269 | 8,829 | -- | | | | | | |
| All Sheep & Lambs, Jan 1 | 185 | 180 | 170 | 100.00 | 100.00 | 105.00 | 18,500 | 18,000 | 17,850 |
| Breeding Sheep & Lambs | 135 | 130 | 110 | | | | | | |
| Ewes 1 Year + | 110 | 105 | 90 | | | | | | |
| Rams 1 year + | 5 | 5 | 5 | | | | | | |
| Replacement Lambs | 20 | 20 | 15 | | | | | | |
| Market Sheep & Lambs | 50 | 50 | 60 | | | | | | |
| Lambs Under 65 Lbs. | 7 | 7 | 15 | | | | | | |
| Lambs 65-84 Lbs. | 8 | 9 | 10 | | | | | | |
| Lambs 85-105 Lbs. | 15 | 16 | 17 | | | | | | |
| Lambs Over 105 Lbs. | 18 | 16 | 17 | | | | | | |
| Sheep | 2 | 2 | 1 | | | | | | |
| Lamb Crop | 160 | 150 | -- | | | | | | |
| All Chickens, Dec 1 1/ | 14,800 | 14,995 | 14,730 | 1.50 | 1.50 | 1.90 | 22,200 | 22,493 | 27,987 |
| Total Layers | 11,435 | 11,860 | 11,955 | | | | | | |
| Pullets 13 Weeks Old but Not of Laying Age | 1,430 | 1,255 | 810 | | | | | | |
| Pullets Under 13 Weeks Old | 1,895 | 1,835 | 1,895 | | | | | | |
| Other Chickens | 40 | 45 | 70 | | | | | | |
| TOTAL | | | | | | | 2,118,000 | 2,223,793 | 2,142,837 |

1/ December 1 preceding year.

CATTLE AND CALVES: INVENTORY, SUPPLY, AND DISPOSITION, MINNESOTA, 1993-98

| Year | All Cattle and Calves 1/ | Calf Crop | Cattle On Feed 1/ | Inshipments | Marketings 2/ | | Farm Slaughter 3/ | Deaths | |
|------|--------------------------|-----------|-------------------|-------------|-------------------|--------|-------------------|--------|--------|
| | | | | | Cattle | Calves | | Cattle | Calves |
| | | | | | <u>1,000 Head</u> | | | | |
| 1993 | 2,750 | 980 | 330 | 530 | 1,225 | 152 | 8 | 50 | 125 |
| 1994 | 2,700 | 990 | 330 | 550 | 1,124 | 143 | 8 | 55 | 110 |
| 1995 | 2,800 | 1,010 | 310 | 525 | 1,144 | 108 | 8 | 60 | 115 |
| 1996 | 2,900 | 1,000 | 335 | 435 | 1,244 | 98 | 8 | 60 | 125 |
| 1997 | 2,800 | 950 | 300 | 425 | 1,254 | 138 | 8 | 60 | 115 |
| 1998 | 2,600 | --- | 275 | --- | ----- | --- | - | -- | --- |

1/ All cattle and calves and cattle on feed inventory numbers refer to January 1.

2/ Includes custom slaughter for use on farms where produced and state outshipments, but excludes interfarm sales within the state.

3/ Excludes custom slaughter for farmers at commercial establishments.

CATTLE AND CALVES: PRODUCTION AND INCOME, MINNESOTA, 1993-97

| Year | Production 1/ | Marketings 2/ | Average Price per 100 Pounds | | Value of Production | Cash Receipts 3/ | Value of Home Consumption | Gross Income |
|------|---------------------|---------------|------------------------------|--------|---------------------|----------------------|---------------------------|--------------|
| | | | Cattle | Calves | | | | |
| | <u>1,000 Pounds</u> | | <u>Dollars</u> | | | <u>1,000 Dollars</u> | | |
| 1993 | 1,186,695 | 1,563,170 | 66.20 | 97.10 | 797,657 | 1,045,785 | 16,136 | 1,061,921 |
| 1994 | 1,191,724 | 1,440,500 | 59.00 | 90.40 | 666,641 | 859,566 | 14,324 | 873,890 |
| 1995 | 1,225,125 | 1,466,600 | 56.60 | 72.90 | 670,793 | 835,230 | 13,632 | 848,862 |
| 1996 | 1,209,310 | 1,566,950 | 57.80 | 50.30 | 678,833 | 903,488 | 13,420 | 916,908 |
| 1997 | 1,183,074 | 1,590,500 | 61.10 | 64.00 | 701,381 | 972,970 | 14,460 | 987,430 |

1/ Adjustments made for changes in inventory and for inshipments.

2/ Excludes custom slaughter for use on farms where produced and interfarm sales within the state.

3/ Receipts from marketings and sale of farm slaughter.



ALL CATTLE, CATTLE ON FEED, AND ALL BREEDING SHEEP & LAMBS: JANUARY 1 INVENTORY
BY COUNTY AND DISTRICT, MINNESOTA, 1997-98

| County and District | All Cattle And Calves | | Cattle And Calves On Feed | | All Breeding Sheep And Lambs | |
|---------------------------|--------------------------|---------|------------------------------|--------|---------------------------------|--------|
| | 1997 | 1998 | 1997 | 1998 | 1997 | 1998 |
| | | | Number | | | |
| Becker | 36,000 | 34,000 | 1,000 | 900 | 1,400 | 1,200 |
| Clay | 24,300 | 21,700 | 2,000 | 1,700 | 700 | 700 |
| Clearwater | 25,700 | 23,800 | 1,400 | 1,300 | 900 | 800 |
| Kittson | 13,200 | 12,100 | 700 | 700 | 600 | 500 |
| Mahnomen | 12,600 | 11,400 | 400 | 400 | 400 | 300 |
| Marshall | 15,600 | 14,500 | 700 | 600 | 2,100 | 1,700 |
| Norman | 11,800 | 10,700 | 500 | 400 | 400 | 300 |
| Pennington | 12,700 | 12,000 | 500 | 500 | 700 | 600 |
| Polk | 34,000 | 29,800 | 3,000 | 2,700 | 1,200 | 1,000 |
| Red Lake | 15,000 | 13,500 | 500 | 500 | 1,100 | 900 |
| Roseau | 30,000 | 27,900 | 1,000 | 1,000 | 1,300 | 1,100 |
| Northwest | 230,900 | 211,400 | 11,700 | 10,700 | 10,800 | 9,100 |
| Beltrami | 25,800 | 24,300 | 300 | 400 | 1,300 | 1,200 |
| Cass | 28,700 | 27,500 | 500 | 400 | 1,300 | 1,000 |
| Hubbard | 8,800 | 8,600 | 100 | 100 | 1,100 | 1,000 |
| Itasca | 11,700 | 11,000 | 200 | 200 | 400 | 300 |
| Koochiching | 6,000 | 5,700 | 100 | 100 | 400 | 400 |
| Lake of the Woods | 4,600 | 4,400 | 100 | 100 | 200 | 200 |
| North Central | 85,600 | 81,500 | 1,300 | 1,300 | 4,700 | 4,100 |
| Cook | 200 | 200 | -- | -- | -- | -- |
| Lake | 200 | 200 | -- | -- | 100 | 100 |
| St Louis | 11,200 | 10,500 | 200 | 200 | 600 | 500 |
| Northeast | 11,600 | 10,900 | 200 | 200 | 700 | 600 |
| Big Stone | 12,100 | 10,600 | 700 | 700 | 800 | 700 |
| Chippewa | 8,800 | 8,500 | 1,000 | 900 | 1,900 | 1,700 |
| Douglas | 38,200 | 36,200 | 2,300 | 2,100 | 1,500 | 1,300 |
| Grant | 12,400 | 12,000 | 1,900 | 1,700 | 1,100 | 900 |
| Lac Qui Parle | 23,000 | 21,400 | 5,100 | 4,700 | 1,800 | 1,600 |
| Otter Tail | 122,000 | 113,900 | 4,200 | 3,800 | 5,900 | 4,900 |
| Pope | 35,800 | 33,800 | 2,200 | 2,000 | 1,500 | 1,300 |
| Stevens | 29,000 | 26,500 | 11,400 | 10,500 | 1,300 | 1,100 |
| Swift | 21,400 | 20,700 | 5,000 | 4,500 | 700 | 600 |
| Traverse | 10,400 | 9,800 | 2,600 | 2,400 | 1,500 | 1,300 |
| Wilkin | 5,600 | 5,200 | 500 | 400 | 300 | 300 |
| Yellow Medicine | 27,500 | 26,800 | 5,100 | 4,700 | 1,900 | 1,700 |
| West Central | 346,200 | 325,400 | 42,000 | 38,400 | 20,200 | 17,400 |
| Benton | 38,000 | 35,600 | 1,600 | 1,400 | 700 | 600 |
| Carver | 46,700 | 42,800 | 2,500 | 2,300 | 400 | 300 |
| Kandiyohi | 33,500 | 31,700 | 4,500 | 4,200 | 2,200 | 1,900 |
| McLeod | 37,500 | 35,100 | 4,200 | 3,900 | 700 | 600 |
| Meeker | 33,000 | 31,200 | 2,800 | 2,600 | 1,500 | 1,200 |
| Morrison | 89,100 | 81,500 | 2,200 | 2,000 | 1,300 | 1,100 |
| Renville | 30,300 | 28,800 | 10,000 | 9,000 | 2,700 | 2,300 |
| Scott | 29,400 | 27,300 | 4,100 | 3,800 | 500 | 400 |
| Sherburne | 13,400 | 12,300 | 2,000 | 1,800 | 500 | 400 |
| Sibley | 36,700 | 34,300 | 4,800 | 4,400 | 1,900 | 1,600 |
| Stearns | 183,700 | 169,000 | 10,800 | 9,900 | 1,500 | 1,300 |
| Todd | 84,500 | 77,400 | 1,500 | 1,400 | 2,900 | 2,500 |
| Wadena | 29,500 | 27,200 | 800 | 700 | 1,500 | 1,300 |
| Wright | 52,500 | 49,500 | 3,900 | 3,600 | 1,600 | 1,300 |
| Central | 737,800 | 683,700 | 55,700 | 51,000 | 19,900 | 16,800 |

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ALL CATTLE, CATTLE ON FEED, AND ALL BREEDING SHEEP & LAMBS: JANUARY 1 INVENTORY
BY COUNTY AND DISTRICT, MINNESOTA, 1997-98 (continued)

| County and District | All Cattle And Calves | | Cattle And Calves On Feed | | All Breeding Sheep And Lambs | |
|---------------------------|--------------------------|-----------|------------------------------|---------|---------------------------------|---------|
| | 1997 | 1998 | 1997 | 1998 | 1997 | 1998 |
| | | | Number | | | |
| Aitkin | 16,000 | 15,100 | 300 | 300 | 600 | 500 |
| Anoka | 5,000 | 4,400 | 200 | 200 | 400 | 300 |
| Carlton | 12,700 | 11,500 | 300 | 300 | 300 | 300 |
| Chisago | 18,700 | 16,900 | 800 | 700 | 600 | 500 |
| Crow Wing | 16,700 | 15,900 | 400 | 400 | 400 | 300 |
| Hennepin | 14,700 | 13,300 | 900 | 800 | 700 | 600 |
| Isanti | 10,900 | 9,900 | 600 | 500 | 1,000 | 800 |
| Kanabec | 27,800 | 24,700 | 700 | 700 | 1,100 | 900 |
| Mille Lacs | 27,700 | 26,100 | 800 | 700 | 700 | 600 |
| Pine | 39,600 | 35,500 | 900 | 900 | 1,400 | 1,200 |
| Ramsey | 500 | 600 | 100 | 100 | 200 | 200 |
| Washington | 10,700 | 9,800 | 900 | 800 | 1,100 | 900 |
| East Central | 201,000 | 183,700 | 6,900 | 6,400 | 8,500 | 7,100 |
| Cottonwood | 35,300 | 32,700 | 12,800 | 11,600 | 2,000 | 1,700 |
| Jackson | 28,800 | 26,500 | 8,000 | 7,300 | 3,600 | 3,000 |
| Lincoln | 36,700 | 33,700 | 6,200 | 5,600 | 5,000 | 4,200 |
| Lyon | 43,700 | 40,900 | 11,200 | 10,300 | 3,800 | 3,200 |
| Murray | 53,700 | 49,400 | 12,600 | 11,600 | 5,300 | 4,500 |
| Nobles | 51,700 | 46,700 | 14,500 | 13,100 | 4,000 | 3,300 |
| Pipestone | 39,800 | 36,100 | 3,900 | 3,500 | 5,400 | 4,500 |
| Redwood | 40,600 | 38,800 | 11,800 | 10,700 | 2,700 | 2,300 |
| Rock | 54,800 | 49,400 | 12,600 | 11,500 | 2,400 | 2,000 |
| Southwest | 385,100 | 354,200 | 93,600 | 85,200 | 34,200 | 28,700 |
| Blue Earth | 19,200 | 18,000 | 8,100 | 7,400 | 1,400 | 1,200 |
| Brown | 41,600 | 39,000 | 7,000 | 6,600 | 1,700 | 1,500 |
| Faribault | 16,500 | 15,400 | 3,300 | 3,100 | 1,600 | 1,300 |
| Freeborn | 18,500 | 17,300 | 2,300 | 2,100 | 2,300 | 2,000 |
| Le Sueur | 28,100 | 26,200 | 5,000 | 4,700 | 1,400 | 1,200 |
| Martin | 26,600 | 25,100 | 7,300 | 7,000 | 1,600 | 1,300 |
| Nicollet | 22,700 | 21,500 | 3,500 | 3,300 | 900 | 800 |
| Rice | 35,100 | 32,400 | 2,100 | 1,900 | 1,000 | 800 |
| Steele | 19,800 | 18,400 | 1,500 | 1,400 | 700 | 600 |
| Waseca | 14,300 | 13,200 | 1,200 | 1,100 | 1,900 | 1,600 |
| Watonwan | 18,300 | 17,300 | 4,400 | 4,200 | 1,100 | 900 |
| South Central | 260,700 | 243,800 | 45,700 | 42,800 | 15,600 | 13,200 |
| Dakota | 35,900 | 32,900 | 8,000 | 7,300 | 1,000 | 800 |
| Dodge | 26,100 | 24,200 | 2,500 | 2,300 | 700 | 600 |
| Fillmore | 89,700 | 83,800 | 5,200 | 4,800 | 2,900 | 2,500 |
| Goodhue | 80,400 | 76,400 | 5,300 | 4,800 | 3,400 | 2,900 |
| Houston | 68,100 | 64,600 | 7,000 | 6,200 | 700 | 600 |
| Mower | 27,400 | 25,200 | 2,800 | 2,600 | 1,800 | 1,500 |
| Olmsted | 62,100 | 56,700 | 4,600 | 4,200 | 2,300 | 1,900 |
| Wabasha | 68,300 | 63,100 | 4,000 | 3,600 | 1,800 | 1,500 |
| Winona | 83,100 | 78,500 | 3,500 | 3,200 | 800 | 700 |
| Southeast | 541,100 | 505,400 | 42,900 | 39,000 | 15,400 | 13,000 |
| Minnesota | 2,800,000 | 2,600,000 | 300,000 | 275,000 | 130,000 | 110,000 |

**BEEF COWS AND MILK COWS: JANUARY 1 INVENTORY BY COUNTY AND DISTRICT,
MINNESOTA, 1997-98**

| County and District | Beef Cows | | Milk Cows | |
|-----------------------------|---------------|---------------|----------------|----------------|
| | 1997 | 1998 | 1997 | 1998 |
| | <u>Number</u> | | | |
| Becker | 7,400 | 7,200 | 9,900 | 9,700 |
| Clay | 5,400 | 5,300 | 4,000 | 3,600 |
| Clearwater | 9,900 | 9,600 | 2,000 | 1,800 |
| Kittson | 6,000 | 6,000 | 400 | 300 |
| Mahnomen | 4,100 | 3,800 | 2,200 | 2,100 |
| Marshall | 5,500 | 5,600 | 1,400 | 1,300 |
| Norman | 3,100 | 3,200 | 1,700 | 1,500 |
| Pennington | 4,100 | 3,900 | 1,900 | 2,300 |
| Polk | 9,800 | 9,800 | 4,500 | 4,100 |
| Red Lake | 4,900 | 5,000 | 1,900 | 1,800 |
| Roseau | 10,000 | 9,700 | 3,600 | 3,600 |
| <u>Northwest</u> | 70,200 | 69,100 | 33,500 | 32,100 |
| Beltrami | 10,500 | 10,500 | 2,600 | 2,500 |
| Cass | 12,400 | 12,200 | 2,500 | 2,200 |
| Hubbard | 3,800 | 3,700 | 800 | 1,000 |
| Itasca | 5,500 | 5,400 | 600 | 500 |
| Koochiching | 2,900 | 2,800 | 300 | 300 |
| Lake of the Woods | 2,300 | 2,200 | 200 | 200 |
| <u>North Central</u> | 37,400 | 36,800 | 7,000 | 6,700 |
| Cook | 100 | 100 | -- | -- |
| Lake | 200 | 200 | -- | -- |
| St. Louis | 4,000 | 4,000 | 1,700 | 1,600 |
| <u>Northeast</u> | 4,300 | 4,300 | 1,700 | 1,600 |
| Big Stone | 2,900 | 2,800 | 1,900 | 1,500 |
| Chippewa | 1,800 | 1,800 | 1,000 | 800 |
| Douglas | 3,500 | 3,600 | 12,200 | 11,500 |
| Grant | 1,500 | 1,400 | 1,800 | 1,600 |
| Lac Qui Parle | 4,700 | 4,600 | 1,600 | 1,400 |
| Otter Tail | 15,000 | 14,500 | 33,400 | 31,300 |
| Pope | 5,500 | 5,600 | 8,900 | 8,400 |
| Stevens | 3,200 | 3,000 | 2,100 | 2,600 |
| Swift | 3,600 | 3,600 | 3,000 | 2,700 |
| Traverse | 1,700 | 1,700 | 400 | 300 |
| Wilkin | 1,400 | 1,400 | 1,000 | 1,000 |
| Yellow Medicine | 4,300 | 4,100 | 2,400 | 2,300 |
| <u>West Central</u> | 49,100 | 48,100 | 69,700 | 65,400 |
| Benton | 3,600 | 3,500 | 13,300 | 12,800 |
| Carver | 2,900 | 2,800 | 14,900 | 15,100 |
| Kandiyohi | 2,800 | 2,800 | 9,500 | 8,500 |
| McLeod | 1,900 | 1,900 | 12,300 | 11,500 |
| Meeker | 2,600 | 2,500 | 10,000 | 9,700 |
| Morrison | 10,200 | 10,400 | 27,900 | 27,000 |
| Renville | 1,300 | 1,200 | 3,500 | 3,000 |
| Scott | 2,100 | 2,000 | 7,500 | 7,900 |
| Sherburne | 2,100 | 2,100 | 2,100 | 2,000 |
| Sibley | 2,000 | 1,900 | 10,300 | 10,000 |
| Stearns | 7,400 | 7,500 | 66,100 | 64,000 |
| Todd | 8,100 | 8,300 | 25,900 | 24,000 |
| Wadena | 5,100 | 4,900 | 6,700 | 6,500 |
| Wright | 4,100 | 4,100 | 16,600 | 15,500 |
| <u>Central</u> | 56,200 | 55,900 | 226,600 | 217,500 |

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**BEEF COWS AND MILK COWS: JANUARY 1 INVENTORY BY COUNTY AND DISTRICT,
MINNESOTA, 1997-98 (continued)**

| County and District | Beef Cows | | Milk Cows | |
|---------------------------|----------------|----------------|----------------|----------------|
| | 1997 | 1998 | 1997 | 1998 |
| | Number | | | |
| Aitkin | 5,700 | 5,800 | 2,000 | 1,800 |
| Anoka | 1,300 | 1,200 | 400 | 300 |
| Carlton | 3,300 | 3,200 | 2,700 | 2,600 |
| Chisago | 3,100 | 3,100 | 4,100 | 3,900 |
| Crow Wing | 5,800 | 5,700 | 2,300 | 2,100 |
| Hennepin | 1,300 | 1,200 | 3,700 | 3,100 |
| Isanti | 1,700 | 1,700 | 2,200 | 2,000 |
| Kanabec | 7,700 | 7,500 | 4,000 | 3,700 |
| Mille Lacs | 2,700 | 2,600 | 7,300 | 7,100 |
| Pine | 7,900 | 7,700 | 10,300 | 9,700 |
| Ramsey | 300 | 400 | 100 | 100 |
| Washington | 2,700 | 2,700 | 1,700 | 1,700 |
| East Central | 43,500 | 42,800 | 40,800 | 38,100 |
| Cottonwood | 3,700 | 3,700 | 1,800 | 1,500 |
| Jackson | 2,900 | 2,900 | 1,200 | 900 |
| Lincoln | 5,600 | 5,300 | 3,800 | 3,400 |
| Lyon | 6,000 | 5,900 | 2,400 | 2,100 |
| Murray | 5,200 | 5,100 | 4,400 | 4,100 |
| Nobles | 5,500 | 5,400 | 3,500 | 3,200 |
| Pipestone | 7,400 | 7,600 | 5,500 | 5,800 |
| Redwood | 4,300 | 4,400 | 3,400 | 2,900 |
| Rock | 6,900 | 6,900 | 3,000 | 2,800 |
| Southwest | 47,500 | 47,200 | 29,000 | 26,700 |
| Blue Earth | 1,700 | 1,600 | 2,000 | 1,800 |
| Brown | 3,000 | 2,900 | 9,900 | 9,400 |
| Faribault | 1,800 | 1,800 | 2,300 | 2,500 |
| Freeborn | 2,000 | 2,000 | 3,300 | 2,800 |
| Le Sueur | 3,500 | 3,400 | 5,700 | 5,300 |
| Martin | 2,500 | 2,500 | 1,700 | 1,500 |
| Nicollet | 1,200 | 1,100 | 6,400 | 6,000 |
| Rice | 2,700 | 2,700 | 11,700 | 11,700 |
| Steele | 1,000 | 1,000 | 6,400 | 5,700 |
| Waseca | 1,400 | 1,300 | 3,900 | 3,500 |
| Watonwan | 1,000 | 1,000 | 1,000 | 1,100 |
| South Central | 21,800 | 21,300 | 54,300 | 51,300 |
| Dakota | 2,200 | 2,200 | 4,900 | 4,600 |
| Dodge | 1,400 | 1,400 | 7,500 | 7,100 |
| Fillmore | 20,600 | 20,200 | 18,000 | 17,500 |
| Goodhue | 7,300 | 7,000 | 25,000 | 25,400 |
| Houston | 12,300 | 12,300 | 11,600 | 11,000 |
| Mower | 2,900 | 2,900 | 5,600 | 5,300 |
| Olmsted | 11,000 | 11,000 | 12,200 | 11,600 |
| Wabasha | 8,500 | 8,500 | 21,100 | 21,400 |
| Winona | 8,800 | 9,000 | 26,500 | 26,700 |
| Southeast | 75,000 | 74,500 | 132,400 | 130,600 |
| Minnesota | 405,000 | 400,000 | 595,000 | 570,000 |

HOGS AND PIGS: SOWS FARROWED, PIG CROP, AND DISPOSITION, MINNESOTA, 1993-97

| Year | Spring Sows Farrowed | Spring Pig Crop | Fall Sows Farrowed | Fall Pig Crop | Annual Farrowings 1/ | Total Pig Crop | Annual Litter Rate | Inship- ments | Marketings 2/ | Deaths | All Hogs On Farms Dec 1 |
|------|----------------------------|-----------------------|--------------------------|---------------------|----------------------------|----------------------|--------------------------|------------------|-------------------|--------|-------------------------------|
| | <u>1,000 Head</u> | | | | | | <u>Head</u> | | <u>1,000 Head</u> | | |
| 1993 | 530 | 4,425 | 505 | 4,193 | 1,035 | 8,618 | 8.33 | 370 | 8,551 | 380 | 4,750 |
| 1994 | 530 | 4,505 | 500 | 4,251 | 1,030 | 8,756 | 8.50 | 445 | 8,699 | 395 | 4,850 |
| 1995 | 510 | 4,337 | 490 | 4,251 | 1,000 | 8,588 | 8.59 | 770 | 8,851 | 400 | 4,950 |
| 1996 | 485 | 4,244 | 460 | 4,025 | 945 | 8,269 | 8.75 | 1,130 | 9,096 | 395 | 4,850 |
| 1997 | 480 | 4,214 | 520 | 4,615 | 1,000 | 8,829 | 8.83 | 1,470 | 9,197 | 445 | 5,500 |

1/ Includes sows that have farrowed more than one time.

2/ Excludes interfarm sales.

HOGS AND PIGS: PRODUCTION AND INCOME, MINNESOTA, 1993-97

| Year | Production 1/ | Marketings 2/ | Average Price Per 100 Lbs | Value of Production 3/ | Cash Receipts 4/ | Value of Home Consumption | Gross Income |
|------|---------------------|------------------|---------------------------------|------------------------------|----------------------|---------------------------------|--------------|
| | <u>1,000 Pounds</u> | | <u>Dollars</u> | | <u>1,000 Dollars</u> | | |
| 1993 | 1,955,195 | 1,973,835 | 46.60 | 909,071 | 928,483 | 3,132 | 931,615 |
| 1994 | 1,976,258 | 2,003,699 | 41.10 | 811,239 | 832,128 | 2,773 | 834,901 |
| 1995 | 2,003,106 | 2,044,215 | 41.90 | 831,151 | 865,073 | 2,865 | 867,938 |
| 1996 | 1,990,686 | 2,072,497 | 53.20 | 1,046,885 | 1,115,650 | 3,347 | 1,118,997 |
| 1997 | 2,091,525 | 2,121,340 | 54.30 | 1,117,764 | 1,169,019 | 3,374 | 1,172,393 |

1/ Adjustments made for changes in inventory and for inshipments.

2/ Excludes custom slaughter for use on farms where produced and interfarm sales within the state.

3/ Includes allowance for higher average price of state inshipments and outshipments of feeder pigs.

4/ Receipts from marketings and sale of farm slaughter. Includes allowance for higher average price of state inshipments and outshipments of feeder pigs.



HOGS: SOWS FARROWED, PIGS PER LITTER, PIG CROP, BY QUARTERS, MINNESOTA, 1993-97 1/

| Year | December-February 2/ | | | March-May | | | June-August | | | September-November | | |
|------|----------------------|-----------------|----------|---------------|-----------------|----------|---------------|-----------------|----------|--------------------|-----------------|----------|
| | Sows Farrowed | Pigs per Litter | Pig Crop | Sows Farrowed | Pigs per Litter | Pig Crop | Sows Farrowed | Pigs per Litter | Pig Crop | Sows Farrowed | Pigs per Litter | Pig Crop |
| 1993 | 255 | 8.40 | 2,142 | 275 | 8.30 | 2,283 | 260 | 8.40 | 2,184 | 245 | 8.20 | 2,009 |
| 1994 | 260 | 8.50 | 2,210 | 270 | 8.50 | 2,295 | 255 | 8.50 | 2,168 | 245 | 8.50 | 2,083 |
| 1995 | 250 | 8.30 | 2,075 | 260 | 8.70 | 2,262 | 250 | 8.65 | 2,163 | 240 | 8.70 | 2,088 |
| 1996 | 240 | 8.80 | 2,112 | 245 | 8.70 | 2,132 | 235 | 8.70 | 2,045 | 225 | 8.80 | 1,980 |
| 1997 | 230 | 8.70 | 2,001 | 250 | 8.85 | 2,213 | 260 | 8.85 | 2,301 | 260 | 8.90 | 2,314 |

1/ Sows farrowed and pig crop numbers are 1,000 head.

2/ December previous year.

HOGS AND PIGS: ALL BREEDING AND MARKET HOGS AND PIGS BY QUARTER, MINNESOTA, 1993-98

| Year and Quarter | All Hogs and Pigs | For Breeding Purposes | Market Hogs and Pigs | | | | |
|------------------|-------------------|-----------------------|----------------------|---------------|----------------|-------------------|--------------|
| | | | Under 60 Lbs. | 60 - 119 Lbs. | 120 - 179 Lbs. | 180 Lbs. and Over | Total Market |
| | | | 1,000 Head | | | | |
| 1993: | | | | | | | |
| March | 4,700 | 550 | 1,670 | 1,030 | 770 | 680 | 4,150 |
| June | 4,950 | 610 | 1,700 | 1,100 | 840 | 700 | 4,340 |
| September | 4,950 | 610 | 1,750 | 1,110 | 790 | 690 | 4,340 |
| December | 4,750 | 590 | 1,580 | 1,020 | 830 | 730 | 4,160 |
| 1994: | | | | | | | |
| March | 4,750 | 560 | 1,680 | 1,030 | 780 | 700 | 4,190 |
| June | 4,950 | 600 | 1,700 | 1,090 | 860 | 700 | 4,350 |
| September | 5,000 | 600 | 1,740 | 1,080 | 850 | 730 | 4,400 |
| December | 4,850 | 550 | 1,650 | 1,020 | 880 | 750 | 4,300 |
| 1995: | | | | | | | |
| March | 4,700 | 540 | 1,620 | 1,000 | 850 | 690 | 4,160 |
| June | 4,900 | 580 | 1,680 | 1,060 | 860 | 720 | 4,320 |
| September | 4,950 | 550 | 1,720 | 1,070 | 860 | 750 | 4,400 |
| December | 4,950 | 550 | 1,640 | 1,090 | 900 | 770 | 4,400 |
| 1996: | | | | | | | |
| March | 4,800 | 550 | 1,660 | 1,020 | 870 | 700 | 4,250 |
| June | 4,750 | 550 | 1,640 | 1,040 | 840 | 680 | 4,200 |
| September | 4,900 | 560 | 1,700 | 1,060 | 840 | 740 | 4,340 |
| December | 4,850 | 540 | 1,590 | 1,070 | 890 | 760 | 4,310 |
| 1997: | | | | | | | |
| March | 5,000 | 600 | 1,640 | 1,080 | 910 | 770 | 4,400 |
| June | 5,200 | 610 | 1,780 | 1,160 | 950 | 700 | 4,590 |
| September | 5,500 | 620 | 1,990 | 1,230 | 920 | 740 | 4,880 |
| December | 5,500 | 620 | 1,910 | 1,210 | 970 | 790 | 4,880 |
| 1998: | | | | | | | |
| March | 5,500 | 620 | 1,900 | 1,190 | 970 | 820 | 4,880 |

**HOGS AND PIGS: INVENTORY, FARROWINGS, AND PIG CROP, BY COUNTY AND DISTRICT,
MINNESOTA, 1996-97**

| County and District | All Hogs Dec. 1 | | Annual Farrowings | | Annual Pig Crop | |
|---------------------------|--------------------|---------|----------------------|---------|--------------------|-----------|
| | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 |
| | Number | | | | | |
| Becker | 9,500 | 7,600 | 3,000 | 2,800 | 26,000 | 24,000 |
| Clay | 12,500 | 12,000 | 3,200 | 3,100 | 27,000 | 26,000 |
| Clearwater | 1,500 | 1,300 | 600 | 500 | 5,000 | 4,000 |
| Kittson | 3,800 | 3,500 | 900 | 800 | 6,000 | 6,000 |
| Mahnomen | 3,800 | 3,400 | 1,200 | 1,100 | 10,000 | 9,000 |
| Marshall | 2,400 | 2,300 | 900 | 900 | 8,000 | 7,000 |
| Norman | 5,800 | 4,800 | 1,500 | 1,400 | 12,000 | 12,000 |
| Pennington | 1,800 | 1,500 | 700 | 600 | 5,000 | 5,000 |
| Polk | 9,400 | 8,000 | 2,500 | 2,400 | 21,000 | 20,000 |
| Red Lake | 1,200 | 1,200 | 400 | 400 | 3,000 | 3,000 |
| Roseau | 3,300 | 3,100 | 1,100 | 1,000 | 8,000 | 7,000 |
| Northwest | 55,000 | 48,700 | 16,000 | 15,000 | 131,000 | 123,000 |
| Beltrami | 1,100 | 900 | 400 | 300 | 3,000 | 2,000 |
| Cass | 6,800 | 6,700 | 2,300 | 2,200 | 19,000 | 18,000 |
| Hubbard | 4,600 | 4,400 | 1,200 | 1,000 | 9,000 | 8,000 |
| Itasca | 700 | 700 | 400 | 400 | 3,000 | 3,000 |
| Koochiching | 300 | 400 | 100 | 100 | 1,000 | 1,000 |
| Lake of the Woods | 500 | 400 | 100 | 100 | 1,000 | 1,000 |
| North Central | 14,000 | 13,500 | 4,500 | 4,100 | 36,000 | 33,000 |
| St Louis | 900 | 800 | 300 | 300 | 3,000 | 3,000 |
| Northeast | 900 | 800 | 300 | 300 | 3,000 | 3,000 |
| Big Stone | 31,500 | 32,100 | 6,600 | 6,900 | 58,000 | 61,000 |
| Chippewa | 44,500 | 45,000 | 10,000 | 8,800 | 89,000 | 78,000 |
| Douglas | 21,000 | 22,100 | 6,000 | 6,400 | 52,000 | 56,000 |
| Grant | 19,000 | 17,900 | 4,200 | 4,200 | 38,000 | 37,000 |
| Lac Qui Parle | 62,500 | 65,400 | 13,000 | 13,600 | 113,000 | 119,000 |
| Otter Tail | 32,000 | 32,900 | 10,000 | 9,500 | 88,000 | 84,000 |
| Pope | 18,500 | 18,900 | 4,100 | 4,000 | 35,000 | 34,000 |
| Stevens | 79,500 | 83,500 | 17,900 | 20,000 | 157,000 | 176,000 |
| Swift | 29,500 | 27,500 | 6,500 | 5,800 | 57,000 | 51,000 |
| Traverse | 19,500 | 16,000 | 3,900 | 3,300 | 35,000 | 29,000 |
| Wilkin | 8,000 | 7,200 | 1,800 | 1,700 | 16,000 | 15,000 |
| Yellow Medicine | 109,500 | 116,000 | 20,000 | 20,300 | 176,000 | 180,000 |
| West Central | 475,000 | 484,500 | 104,000 | 104,500 | 914,000 | 920,000 |
| Benton | 21,500 | 23,300 | 5,200 | 5,400 | 45,000 | 47,000 |
| Carver | 24,500 | 27,000 | 5,200 | 5,100 | 45,000 | 44,000 |
| Kandiyohi | 95,500 | 96,500 | 20,800 | 21,200 | 182,000 | 189,000 |
| McLeod | 33,000 | 32,600 | 7,500 | 7,300 | 65,000 | 63,000 |
| Meeker | 38,500 | 36,100 | 8,700 | 8,400 | 75,000 | 73,000 |
| Morrison | 28,500 | 28,800 | 8,600 | 8,300 | 74,000 | 72,000 |
| Renville | 179,000 | 210,100 | 39,400 | 41,300 | 348,000 | 372,000 |
| Scott | 17,500 | 14,800 | 3,800 | 3,100 | 33,000 | 27,000 |
| Sherburne | 13,000 | 12,400 | 3,000 | 2,900 | 26,000 | 25,000 |
| Sibley | 68,000 | 73,400 | 13,500 | 14,000 | 119,000 | 124,000 |
| Stearns | 89,000 | 96,000 | 21,300 | 21,700 | 185,000 | 189,000 |
| Todd | 22,000 | 22,800 | 7,100 | 6,600 | 60,000 | 56,000 |
| Wadena | 4,500 | 4,700 | 1,600 | 1,500 | 14,000 | 13,000 |
| Wright | 25,500 | 27,500 | 7,300 | 7,600 | 63,000 | 66,000 |
| Central | 660,000 | 706,000 | 153,000 | 154,400 | 1,334,000 | 1,360,000 |

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**HOGS AND PIGS: INVENTORY, FARROWINGS, AND PIG CROP, BY COUNTY AND DISTRICT,
MINNESOTA, 1996-97 (continued)**

| County and District | All Hogs Dec. 1 | | Annual Farrowings | | Annual Pig Crop | |
|---------------------------|--------------------|------------------|----------------------|------------------|--------------------|------------------|
| | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 |
| | Number | | | | | |
| Aitkin | 900 | 800 | 200 | 200 | 1,500 | 1,500 |
| Anoka | 7,300 | 5,800 | 1,000 | 900 | 8,000 | 7,000 |
| Carlton | 500 | 400 | 200 | 200 | 1,500 | 1,500 |
| Chisago | 9,800 | 8,800 | 1,800 | 1,700 | 15,000 | 15,000 |
| Crow Wing | 5,200 | 4,900 | 1,300 | 1,200 | 11,000 | 10,000 |
| Hennepin | 5,500 | 4,400 | 1,400 | 1,300 | 12,000 | 11,000 |
| Isanti | 9,800 | 8,800 | 2,000 | 1,900 | 17,000 | 17,000 |
| Kanabec | 12,500 | 11,200 | 2,500 | 2,400 | 22,000 | 21,000 |
| Mille Lacs | 12,200 | 10,900 | 3,700 | 3,700 | 30,000 | 30,000 |
| Pine | 8,700 | 7,500 | 1,900 | 1,800 | 15,000 | 15,000 |
| Ramsey | 200 | 200 | 100 | 100 | 1,000 | 1,000 |
| Washington | 4,900 | 3,800 | 900 | 800 | 7,000 | 6,000 |
| East Central | 77,500 | 67,500 | 17,000 | 16,200 | 141,000 | 136,000 |
| Cottonwood | 133,000 | 140,300 | 25,500 | 27,000 | 222,000 | 242,000 |
| Jackson | 157,000 | 173,200 | 30,100 | 31,800 | 260,000 | 279,000 |
| Lincoln | 48,000 | 49,700 | 8,300 | 9,000 | 72,000 | 80,000 |
| Lyon | 161,000 | 172,300 | 30,700 | 32,400 | 265,000 | 284,000 |
| Murray | 98,000 | 101,400 | 19,300 | 20,600 | 169,000 | 180,000 |
| Nobles | 202,000 | 208,900 | 35,400 | 36,300 | 316,000 | 321,000 |
| Pipestone | 111,000 | 124,600 | 17,300 | 22,400 | 153,000 | 202,000 |
| Redwood | 157,000 | 169,500 | 28,400 | 29,700 | 253,000 | 266,000 |
| Rock | 120,500 | 130,100 | 23,200 | 23,400 | 202,000 | 206,000 |
| Southwest | 1,187,500 | 1,270,000 | 218,200 | 232,600 | 1,912,000 | 2,060,000 |
| Blue Earth | 226,000 | 302,000 | 38,900 | 44,900 | 344,000 | 401,000 |
| Brown | 176,000 | 235,000 | 32,000 | 35,800 | 282,000 | 319,000 |
| Faribault | 140,500 | 184,000 | 26,300 | 30,300 | 232,000 | 270,000 |
| Freeborn | 150,000 | 178,000 | 29,700 | 31,800 | 262,000 | 283,000 |
| Le Sueur | 79,000 | 94,000 | 14,000 | 14,600 | 123,000 | 129,000 |
| Martin | 400,200 | 524,000 | 61,100 | 70,500 | 539,000 | 626,000 |
| Nicollet | 178,500 | 217,000 | 33,000 | 35,000 | 291,000 | 311,000 |
| Rice | 151,000 | 197,000 | 28,400 | 31,400 | 248,000 | 278,000 |
| Steele | 68,000 | 79,000 | 12,100 | 12,800 | 106,000 | 113,000 |
| Waseca | 99,500 | 130,000 | 19,800 | 22,100 | 174,000 | 195,000 |
| Watonwan | 111,400 | 133,000 | 20,700 | 22,200 | 181,000 | 196,000 |
| South Central | 1,780,100 | 2,273,000 | 316,000 | 351,400 | 2,782,000 | 3,121,000 |
| Dakota | 42,000 | 37,900 | 7,800 | 7,400 | 68,000 | 65,000 |
| Dodge | 78,000 | 80,600 | 13,500 | 14,700 | 120,000 | 131,000 |
| Fillmore | 126,500 | 137,200 | 25,700 | 27,400 | 225,000 | 242,000 |
| Goodhue | 70,500 | 77,900 | 14,200 | 15,700 | 124,000 | 138,000 |
| Houston | 38,000 | 41,400 | 7,800 | 8,500 | 68,000 | 75,000 |
| Mower | 125,000 | 140,500 | 22,000 | 23,200 | 193,000 | 205,000 |
| Olmsted | 43,500 | 47,000 | 9,200 | 9,800 | 81,000 | 87,000 |
| Wabasha | 37,000 | 37,700 | 8,000 | 7,800 | 69,000 | 68,000 |
| Winona | 39,500 | 35,800 | 7,800 | 7,000 | 68,000 | 62,000 |
| Southeast | 600,000 | 636,000 | 116,000 | 121,500 | 1,016,000 | 1,073,000 |
| Minnesota | 4,850,000 | 5,500,000 | 945,000 | 1,000,000 | 8,269,000 | 8,829,000 |

SHEEP AND LAMBS: INVENTORY, SUPPLY, AND DISPOSITION, MINNESOTA, 1993-98

| Year | All Sheep and Lambs 1/ | Lamb Crop | Inshipments | Marketings 2/ | | Farm Slaughter 3/ | Deaths | |
|------|------------------------|-----------|-------------|-------------------|-------|-------------------|--------|-------|
| | | | | Sheep | Lambs | | Sheep | Lambs |
| | | | | <u>1,000 Head</u> | | | | |
| 1993 | 245 | 190 | 47 | 37 | 202 | 1 | 10 | 22 |
| 1994 | 213 | 175 | 63 | 40 | 190 | 1 | 9 | 21 |
| 1995 | 190 | 160 | 53 | 20 | 168 | 1 | 8 | 21 |
| 1996 | 185 | 160 | 42 | 17 | 158 | 1 | 10 | 21 |
| 1997 | 180 | 150 | 31 | 30 | 134 | 1 | 8 | 18 |
| 1998 | 170 | --- | -- | -- | --- | - | -- | -- |

1/ Sheep and lamb inventory numbers refer to January 1. Beginning in 1994, new crop lambs included.

2/ Includes custom slaughter for use on farms where produced and state outshipments, but excludes interfarm sales within the state.

3/ Excludes custom slaughter for farmers at commercial establishments.

SHEEP AND LAMBS: INVENTORY, PRODUCTION AND INCOME, MINNESOTA, 1993-97

| Year | Production 1/ | Marketings 2/ | Average Price per 100 Pounds | | Value of Production | Cash Receipts 3/ | Value of Home Consumption | Gross Income |
|------|---------------------|---------------|------------------------------|-------|---------------------|----------------------|---------------------------|--------------|
| | | | Sheep | Lambs | | | | |
| | <u>1,000 Pounds</u> | | <u>Dollars</u> | | | <u>1,000 Dollars</u> | | |
| 1993 | 23,389 | 30,190 | 25.50 | 66.40 | 14,311 | 17,928 | 199 | 18,127 |
| 1994 | 20,731 | 28,280 | 26.10 | 64.60 | 12,637 | 16,113 | 140 | 16,252 |
| 1995 | 18,278 | 21,905 | 23.50 | 75.30 | 12,486 | 15,096 | 367 | 15,463 |
| 1996 | 17,026 | 20,350 | 25.80 | 85.70 | 13,676 | 16,065 | 194 | 16,259 |
| 1997 | 15,558 | 19,345 | 33.80 | 90.80 | 13,186 | 15,257 | 203 | 15,460 |

1/ Adjustments made for changes in inventory and for inshipments.

2/ Excludes custom slaughter for use on farms where produced and interfarm sales within the state.

3/ Receipts from marketings and sale of farm slaughter.

WOOL: SHEEP SHORN, PRODUCTION AND VALUE, MINNESOTA, 1993-97

| Year | Sheep Shorn 1/ | Weight per Fleece | Production | Annual Average Price per Pound 2/ | Value |
|------|-------------------|-------------------|---------------------|-----------------------------------|----------------------|
| | <u>1,000 Head</u> | <u>Pounds</u> | <u>1,000 Pounds</u> | <u>Cents</u> | <u>1,000 Dollars</u> |
| 1993 | 210 | 7.1 | 1,484 | 28 | 416 |
| 1994 | 175 | 6.7 | 1,175 | 42 | 494 |
| 1995 | 170 | 6.8 | 1,150 | 64 | 736 |
| 1996 | 170 | 6.6 | 1,120 | 43 | 482 |
| 1997 | 155 | 6.5 | 1,010 | 43 | 434 |

1/ Includes sheep shorn at commercial feeding yards.

2/ Average local market price for wool sold; does not include incentive payments.

COMMERCIAL LIVESTOCK SLAUGHTER: NUMBER AND LIVE WEIGHT, BY MONTH, MINNESOTA, 1996-97

| Month | Cattle | | | | | |
|--------------|--------------------|---------|----------------|-------|---------------------|-----------|
| | Number Slaughtered | | Live Weight | | | |
| | | | Average Weight | | Total Weight | |
| | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 |
| | <u>1,000 Head</u> | | <u>Pounds</u> | | <u>1,000 Pounds</u> | |
| January | 98.0 | 100.3 | 1,264 | 1,216 | 123,846 | 122,057 |
| February | 93.7 | 91.7 | 1,274 | 1,248 | 119,350 | 114,429 |
| March | 88.4 | 97.0 | 1,272 | 1,248 | 112,427 | 121,083 |
| April | 96.6 | 94.6 | 1,259 | 1,258 | 121,586 | 119,008 |
| May | 96.2 | 89.7 | 1,235 | 1,242 | 118,791 | 111,509 |
| June | 88.5 | 85.8 | 1,230 | 1,244 | 108,809 | 106,727 |
| July | 95.7 | 91.8 | 1,222 | 1,249 | 116,925 | 114,628 |
| August | 96.5 | 85.2 | 1,229 | 1,267 | 118,603 | 107,942 |
| September | 92.0 | 90.4 | 1,242 | 1,268 | 114,251 | 114,584 |
| October | 110.4 | 101.4 | 1,227 | 1,277 | 135,364 | 129,516 |
| November | 99.5 | 92.5 | 1,211 | 1,268 | 120,463 | 117,258 |
| December | 99.4 | 100.9 | 1,205 | 1,269 | 119,787 | 128,004 |
| ANNUAL TOTAL | 1,154.8 | 1,121.3 | 1,238 | 1,255 | 1,430,203 | 1,406,746 |
| Month | Hogs | | | | | |
| | Number Slaughtered | | Live Weight | | | |
| | | | Average Weight | | Total Weight | |
| | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 |
| | <u>1,000 Head</u> | | <u>Pounds</u> | | <u>1,000 Pounds</u> | |
| January | 610.5 | 555.3 | 249 | 253 | 152,226 | 140,260 |
| February | 588.7 | 533.9 | 247 | 253 | 145,385 | 135,008 |
| March | 579.9 | 572.5 | 246 | 253 | 142,641 | 144,992 |
| April | 583.8 | 586.4 | 247 | 254 | 144,295 | 148,725 |
| May | 580.0 | 526.1 | 246 | 253 | 142,890 | 132,991 |
| June | 510.7 | 533.2 | 248 | 251 | 126,410 | 133,939 |
| July | 589.7 | 568.5 | 244 | 248 | 144,114 | 140,901 |
| August | 593.4 | 561.3 | 244 | 247 | 144,811 | 138,656 |
| September | 572.2 | 617.0 | 246 | 249 | 140,735 | 153,638 |
| October | 640.1 | 688.7 | 250 | 252 | 160,303 | 173,532 |
| November | 569.7 | 586.4 | 254 | 255 | 144,615 | 149,774 |
| December | 562.5 | 663.2 | 253 | 256 | 142,083 | 169,945 |
| ANNUAL TOTAL | 6,981.0 | 6,992.4 | 248 | 252 | 1,730,506 | 1,762,361 |

Note: Totals may not add due to rounding. Includes slaughter under federal inspection and other commercial slaughter. Excludes farm slaughter.

DAIRY

Minnesota's milk production totaled 9.2 billion pounds in 1997, down 2% from 1996. The state's share of national production in 1997 was 6%. The 12-month average number of milk cows was 583,000 versus 598,000 in 1996. The pounds of milk per cow averaged 15,798 in 1997, a record high for Minnesota.

The count of Minnesota dairy farms licensed to sell milk to plants in January 1998 totaled 9,514. This compares with the totals of 10,600 for January 1997 and 11,420 for January 1996.



DAIRY: MILK PRODUCTION, DISPOSITION, AND INCOME, MINNESOTA, 1993-97

| Year | Total Milk Produced | Disposition of Milk Produced | | | Cash Receipts | Gross Producer Income 1/ |
|------|------------------------|------------------------------|-------------------------------|-------------------------------|----------------------|-----------------------------|
| | | Used on Farms Where Produced | | Sold to Plants and Dealers | | |
| | | Fed to Calves | Consumed in Farm Household | | | |
| | | <u>Million Pounds</u> | | | <u>1,000 Dollars</u> | |
| 1993 | 9,693 | 94 | 19 | 9,580 | 1,226,240 | 1,228,672 |
| 1994 | 9,342 | 90 | 17 | 9,235 | 1,194,086 | 1,196,284 |
| 1995 | 9,409 | 101 | 18 | 9,290 | 1,181,688 | 1,183,978 |
| 1996 | 9,440 | 92 | 18 | 9,330 | 1,362,180 | 1,364,808 |
| 1997 | 9,210 | 95 | 15 | 9,100 | 1,200,290 | 1,202,269 |

1/ Cash receipts from marketings of milk and cream plus value of milk used for home consumption.

DAIRY: MANUFACTURED DAIRY PRODUCTS, MINNESOTA, 1993-97

| Year | Butter | All Cheese | American Cheese | Italian Cheese | Non-Fat Dry Milk Solids | Dry Whey & Whey Fraction Solids | Ice Cream | Ice Milk 1/ |
|------|--------|------------|---------------------|----------------|-------------------------|---------------------------------|----------------------|-------------|
| | | | <u>1,000 Pounds</u> | | | | <u>1,000 Gallons</u> | |
| 1993 | 52,908 | 646,974 | 571,806 | 58,271 | 9,451 | 358,454 | 40,609 | 12,065 |
| 1994 | 52,829 | 658,036 | 571,746 | 75,176 | 34,485 | 366,225 | 37,843 | 9,262 |
| 1995 | 52,648 | 678,405 | 609,946 | 66,118 | 25,873 | 375,869 | 37,826 | 9,764 |
| 1996 | 58,575 | 682,058 | 589,545 | 90,529 | 14,107 | 344,811 | 41,071 | 10,359 |
| 1997 | 61,070 | 642,013 | 541,837 | 97,241 | 12,847 | 338,275 | 41,593 | 9,983 |

1/ Effective 1995, ice milk discontinued, replaced by lowfat and nonfat ice cream.

DAIRY: MILK COWS, MILK PRODUCTION, AND DAIRY PRODUCTS, BY MONTH, MINNESOTA, 1993-97

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
|--|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Milk Cows: Number on Farms, Excludes Heifers That Have Not Calved | | | | | | | | | | | | | |
| | <u>1,000 Cows</u> | | | | | | | | | | | | |
| 1993 | 645 | 645 | 645 | 640 | 640 | 640 | 635 | 630 | 630 | 625 | 625 | 620 | 635 |
| 1994 | 620 | 620 | 615 | 610 | 610 | 610 | 605 | 605 | 605 | 605 | 605 | 600 | 609 |
| 1995 | 600 | 600 | 600 | 595 | 595 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 599 |
| 1996 | 600 | 600 | 595 | 595 | 595 | 600 | 600 | 600 | 600 | 595 | 595 | 595 | 598 |
| 1997 | 595 | 590 | 590 | 590 | 585 | 585 | 585 | 580 | 575 | 575 | 570 | 570 | 583 |
| Milk: Production per Cow | | | | | | | | | | | | | |
| | <u>Pounds</u> | | | | | | | | | | | | |
| 1993 | 1,325 | 1,220 | 1,365 | 1,330 | 1,395 | 1,335 | 1,300 | 1,220 | 1,150 | 1,185 | 1,170 | 1,260 | 15,265 |
| 1994 | 1,295 | 1,195 | 1,340 | 1,330 | 1,395 | 1,335 | 1,305 | 1,255 | 1,190 | 1,230 | 1,185 | 1,280 | 15,340 |
| 1995 | 1,345 | 1,245 | 1,390 | 1,365 | 1,435 | 1,360 | 1,325 | 1,265 | 1,205 | 1,245 | 1,215 | 1,310 | 15,708 |
| 1996 | 1,360 | 1,285 | 1,400 | 1,350 | 1,395 | 1,335 | 1,315 | 1,275 | 1,220 | 1,275 | 1,250 | 1,340 | 15,786 |
| 1997 | 1,345 | 1,245 | 1,385 | 1,335 | 1,415 | 1,385 | 1,350 | 1,290 | 1,225 | 1,260 | 1,230 | 1,340 | 15,798 |
| Milk: Production on Farms | | | | | | | | | | | | | |
| | <u>Million Pounds</u> | | | | | | | | | | | | |
| 1993 | 855 | 787 | 880 | 851 | 893 | 854 | 826 | 769 | 725 | 741 | 731 | 781 | 9,693 |
| 1994 | 803 | 741 | 824 | 811 | 851 | 814 | 790 | 759 | 720 | 744 | 717 | 768 | 9,342 |
| 1995 | 807 | 747 | 834 | 812 | 854 | 816 | 795 | 759 | 723 | 747 | 729 | 786 | 9,409 |
| 1996 | 816 | 771 | 833 | 803 | 830 | 801 | 789 | 765 | 732 | 759 | 744 | 797 | 9,440 |
| 1997 | 800 | 735 | 817 | 788 | 828 | 810 | 790 | 748 | 704 | 725 | 701 | 764 | 9,210 |
| Percentage of Fat in Milk Sold by Farmers to Dairy Plants | | | | | | | | | | | | | |
| | <u>Percent</u> | | | | | | | | | | | | |
| 1993 | 3.75 | 3.73 | 3.73 | 3.70 | 3.64 | 3.61 | 3.60 | 3.59 | 3.71 | 3.82 | 3.85 | 3.82 | 3.71 |
| 1994 | 3.82 | 3.79 | 3.76 | 3.74 | 3.67 | 3.56 | 3.57 | 3.61 | 3.69 | 3.78 | 3.80 | 3.81 | 3.72 |
| 1995 | 3.77 | 3.74 | 3.72 | 3.71 | 3.66 | 3.56 | 3.53 | 3.54 | 3.68 | 3.83 | 3.87 | 3.85 | 3.71 |
| 1996 | 3.82 | 3.80 | 3.80 | 3.78 | 3.73 | 3.63 | 3.57 | 3.59 | 3.68 | 3.80 | 3.86 | 3.85 | 3.74 |
| 1997 | 3.83 | 3.79 | 3.77 | 3.75 | 3.70 | 3.60 | 3.58 | 3.61 | 3.69 | 3.79 | 3.86 | 3.82 | 3.73 |
| Butter Manufactured | | | | | | | | | | | | | |
| | <u>Million Pounds</u> | | | | | | | | | | | | |
| 1993 | 6.8 | 6.2 | 7.0 | 5.4 | 5.7 | 5.1 | 2.8 | 2.1 | 2.5 | 2.8 | 2.6 | 3.9 | 52.9 |
| 1994 | 4.5 | 4.0 | 4.3 | 5.8 | 5.8 | 5.7 | 4.4 | 4.0 | 2.3 | 3.2 | 3.4 | 5.4 | 52.8 |
| 1995 | 5.9 | 4.1 | 4.5 | 5.8 | 5.6 | 5.1 | 4.1 | 3.6 | 3.4 | 3.1 | 2.9 | 4.5 | 52.6 |
| 1996 | 5.5 | 4.5 | 5.9 | 5.8 | 5.4 | 6.0 | 4.4 | 4.3 | 2.7 | 4.2 | 4.1 | 5.8 | 58.6 |
| 1997 | 6.8 | 5.1 | 6.5 | 6.5 | 6.1 | 5.7 | 5.3 | 3.7 | 2.8 | 3.0 | 4.3 | 5.3 | 61.1 |
| American Cheese Manufactured | | | | | | | | | | | | | |
| | <u>Million Pounds</u> | | | | | | | | | | | | |
| 1993 | 50.5 | 43.8 | 49.0 | 50.9 | 55.7 | 54.0 | 52.6 | 45.3 | 40.6 | 43.9 | 41.0 | 44.4 | 571.8 |
| 1994 | 49.2 | 43.5 | 50.6 | 50.6 | 54.2 | 49.0 | 48.2 | 44.2 | 43.5 | 45.0 | 45.0 | 48.7 | 571.7 |
| 1995 | 50.6 | 47.9 | 51.8 | 54.2 | 55.7 | 50.7 | 52.1 | 46.0 | 47.2 | 49.2 | 47.7 | 56.9 | 609.9 |
| 1996 | 51.7 | 51.3 | 57.2 | 52.3 | 53.6 | 50.2 | 44.6 | 43.1 | 42.8 | 48.1 | 45.0 | 49.6 | 589.5 |
| 1997 | 48.5 | 46.5 | 48.0 | 46.1 | 49.0 | 49.2 | 48.0 | 43.6 | 41.4 | 39.6 | 37.7 | 44.3 | 541.8 |

DAIRY: MILK COWS, PRODUCTION PER COW, TOTAL PRODUCTION, BY COUNTY AND DISTRICT,
MINNESOTA, 1996-97

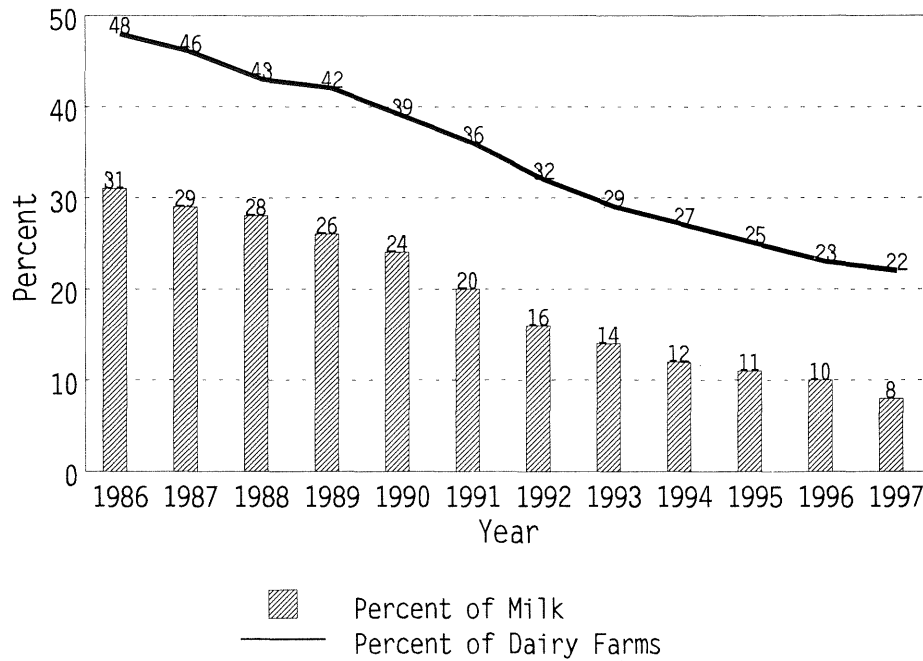
| County and District | Annual Average Milk Cows On Farms | | Annual Average Production Per Cow | | Total Production | |
|----------------------|-----------------------------------|---------|-----------------------------------|------|------------------|-----------|
| | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 |
| | Number | | Thousand Pounds | | Thousand Pounds | |
| Becker | 10,000 | 9,700 | 15.1 | 15.2 | 151,000 | 147,500 |
| Clay | 4,100 | 3,800 | 15.7 | 15.5 | 64,500 | 59,000 |
| Clearwater | 2,100 | 1,800 | 15.5 | 15.3 | 32,500 | 27,500 |
| Kittson | 400 | 400 | 15.0 | 13.8 | 6,000 | 5,500 |
| Mahnomen | 2,300 | 2,200 | 15.4 | 15.2 | 35,500 | 33,500 |
| Marshall | 1,500 | 1,300 | 15.3 | 15.0 | 23,000 | 19,500 |
| Norman | 1,800 | 1,600 | 16.1 | 15.6 | 29,000 | 25,000 |
| Pennington | 1,900 | 2,100 | 14.7 | 15.0 | 28,000 | 31,500 |
| Polk | 4,400 | 4,300 | 15.6 | 15.0 | 68,500 | 64,500 |
| Red Lake | 2,000 | 1,800 | 15.5 | 15.6 | 31,000 | 28,000 |
| Roseau | 3,700 | 3,600 | 15.4 | 15.4 | 57,000 | 55,500 |
| Northwest | 34,200 | 32,600 | 15.4 | 15.2 | 526,000 | 497,000 |
| Beltrami | 2,700 | 2,500 | 15.0 | 15.2 | 40,500 | 38,000 |
| Cass | 2,800 | 2,400 | 14.1 | 14.0 | 39,500 | 33,500 |
| Hubbard | 800 | 800 | 15.0 | 15.0 | 12,000 | 12,000 |
| Itasca | 600 | 600 | 14.2 | 14.2 | 8,500 | 8,500 |
| Koochiching | 400 | 400 | 13.8 | 15.0 | 5,500 | 6,000 |
| Lake of the Woods | 300 | 200 | 13.3 | 15.0 | 4,000 | 3,000 |
| North Central | 7,600 | 6,900 | 14.5 | 14.6 | 110,000 | 101,000 |
| St Louis | 1,800 | 1,700 | 14.4 | 14.4 | 26,000 | 24,500 |
| Northeast | 1,800 | 1,700 | 14.4 | 14.4 | 26,000 | 24,500 |
| Big Stone | 1,900 | 1,700 | 14.5 | 14.4 | 27,500 | 24,500 |
| Chippewa | 1,100 | 1,000 | 15.0 | 14.5 | 16,500 | 14,500 |
| Douglas | 12,400 | 11,900 | 15.5 | 15.4 | 192,000 | 183,500 |
| Grant | 1,800 | 1,700 | 15.6 | 15.3 | 28,000 | 26,000 |
| Lac Qui Parle | 1,600 | 1,500 | 15.0 | 14.7 | 24,000 | 22,000 |
| Otter Tail | 33,600 | 32,300 | 15.8 | 15.7 | 529,500 | 507,500 |
| Pope | 8,900 | 8,700 | 16.0 | 15.7 | 142,500 | 137,000 |
| Stevens | 1,700 | 2,400 | 15.9 | 16.7 | 27,000 | 40,000 |
| Swift | 3,000 | 2,800 | 15.5 | 15.4 | 46,500 | 43,000 |
| Traverse | 400 | 400 | 16.3 | 16.3 | 6,500 | 6,500 |
| Wilkin | 1,000 | 1,000 | 15.5 | 15.0 | 15,500 | 15,000 |
| Yellow Medicine | 2,400 | 2,300 | 15.6 | 15.7 | 37,500 | 36,000 |
| West Central | 69,800 | 67,700 | 15.7 | 15.6 | 1,093,000 | 1,055,500 |
| Benton | 13,400 | 13,100 | 15.3 | 15.3 | 205,500 | 200,000 |
| Carver | 15,600 | 15,000 | 16.2 | 16.3 | 252,500 | 244,000 |
| Kandiyohi | 9,700 | 9,000 | 15.8 | 15.7 | 153,500 | 141,500 |
| McLeod | 12,400 | 11,900 | 15.5 | 15.5 | 192,000 | 184,000 |
| Meeker | 9,700 | 9,900 | 15.6 | 15.6 | 151,000 | 154,000 |
| Morrison | 28,000 | 27,400 | 15.8 | 15.8 | 441,000 | 432,000 |
| Renville | 3,700 | 3,300 | 15.7 | 15.6 | 58,000 | 51,500 |
| Scott | 7,800 | 7,700 | 15.9 | 16.1 | 124,000 | 124,000 |
| Sherburne | 2,100 | 2,000 | 15.5 | 15.3 | 32,500 | 30,500 |
| Sibley | 10,400 | 10,200 | 15.6 | 15.4 | 162,000 | 157,500 |
| Stearns | 64,300 | 65,000 | 16.3 | 16.3 | 1,045,000 | 1,056,500 |
| Todd | 26,500 | 25,100 | 15.8 | 15.7 | 417,500 | 393,500 |
| Wadena | 6,600 | 6,600 | 15.9 | 15.6 | 105,000 | 103,000 |
| Wright | 16,700 | 16,100 | 16.0 | 16.1 | 266,500 | 258,500 |
| Central | 226,900 | 222,300 | 15.9 | 15.9 | 3,606,000 | 3,530,500 |

--continued

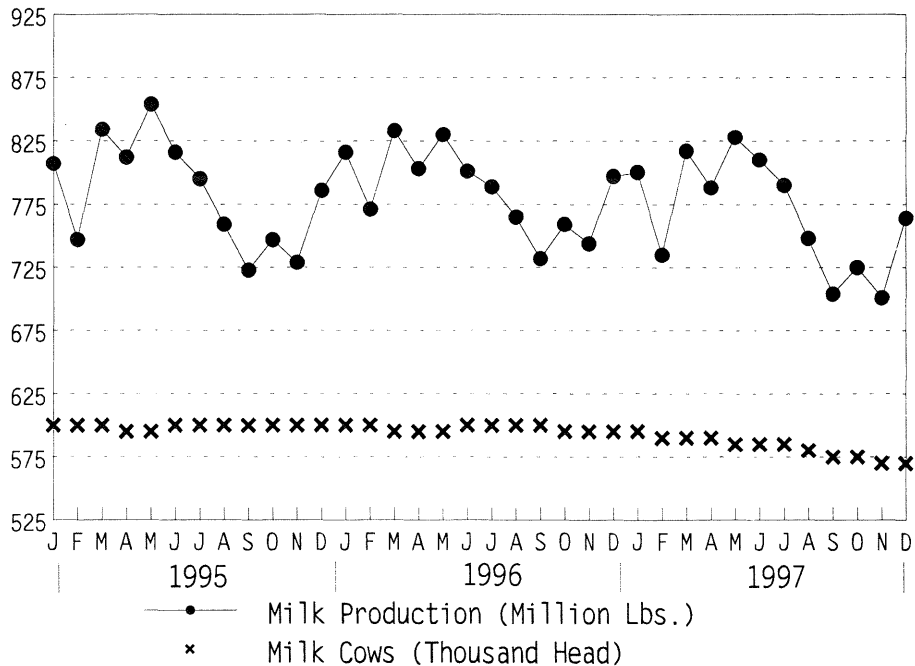
DAIRY: MILK COWS, PRODUCTION PER COW, TOTAL PRODUCTION, BY COUNTY AND DISTRICT,
MINNESOTA, 1996-97 (continued)

| County and District | Annual Average Milk Cows On Farms | | Annual Average Production Per Cow | | Total Production | |
|---------------------------|--------------------------------------|---------|--------------------------------------|------|------------------------|-----------|
| | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 |
| | <u>Number</u> | | <u>Thousand Pounds</u> | | <u>Thousand Pounds</u> | |
| Aitkin | 2,000 | 1,900 | 15.0 | 15.0 | 30,000 | 28,500 |
| Anoka | 500 | 400 | 16.0 | 15.0 | 8,000 | 6,000 |
| Carlton | 2,800 | 2,600 | 14.8 | 14.8 | 41,500 | 38,500 |
| Chisago | 4,100 | 4,000 | 15.0 | 15.0 | 61,500 | 60,000 |
| Crow Wing | 2,400 | 2,200 | 15.4 | 15.5 | 37,000 | 34,000 |
| Hennepin | 3,900 | 3,500 | 16.0 | 15.7 | 62,500 | 55,000 |
| Isanti | 2,200 | 2,100 | 15.5 | 15.5 | 34,000 | 32,500 |
| Kanabec | 4,200 | 3,900 | 14.9 | 14.7 | 62,500 | 57,500 |
| Mille Lacs | 7,700 | 7,200 | 15.3 | 15.1 | 118,000 | 109,000 |
| Pine | 10,400 | 10,100 | 15.2 | 15.3 | 158,000 | 154,500 |
| Ramsey | 100 | 100 | 15.0 | 15.0 | 1,500 | 1,500 |
| Washington | 1,800 | 1,700 | 16.4 | 16.5 | 29,500 | 28,000 |
| East Central | 42,100 | 39,700 | 15.3 | 15.2 | 644,000 | 605,000 |
| Cottonwood | 2,000 | 1,700 | 14.8 | 15.3 | 29,500 | 26,000 |
| Jackson | 1,200 | 1,000 | 15.4 | 15.5 | 18,500 | 15,500 |
| Lincoln | 3,800 | 3,600 | 14.9 | 14.7 | 56,500 | 53,000 |
| Lyon | 2,600 | 2,300 | 14.8 | 14.6 | 38,500 | 33,500 |
| Murray | 4,300 | 4,200 | 14.9 | 15.1 | 64,000 | 63,500 |
| Nobles | 3,700 | 3,400 | 15.1 | 15.6 | 56,000 | 53,000 |
| Pipestone | 5,300 | 5,600 | 14.9 | 14.8 | 79,000 | 83,000 |
| Redwood | 3,400 | 3,100 | 15.0 | 14.8 | 51,000 | 46,000 |
| Rock | 3,200 | 2,900 | 14.8 | 15.0 | 47,500 | 43,500 |
| Southwest | 29,500 | 27,800 | 14.9 | 15.0 | 440,500 | 417,000 |
| Blue Earth | 2,000 | 1,900 | 16.3 | 16.3 | 32,500 | 31,000 |
| Brown | 9,700 | 9,600 | 15.7 | 15.8 | 152,500 | 152,000 |
| Faribault | 2,300 | 2,400 | 15.9 | 15.8 | 36,500 | 38,000 |
| Freeborn | 3,500 | 3,100 | 15.9 | 15.5 | 55,500 | 48,000 |
| Le Sueur | 5,500 | 5,500 | 15.5 | 15.7 | 85,500 | 86,500 |
| Martin | 1,800 | 1,600 | 15.3 | 15.3 | 27,500 | 24,500 |
| Nicollet | 6,300 | 6,200 | 15.8 | 16.1 | 99,500 | 100,000 |
| Rice | 11,600 | 11,700 | 15.7 | 15.8 | 182,500 | 184,500 |
| Steele | 6,800 | 6,100 | 15.5 | 15.5 | 105,500 | 94,500 |
| Waseca | 3,800 | 3,700 | 15.7 | 16.1 | 59,500 | 59,500 |
| Watonwan | 1,000 | 1,000 | 15.5 | 15.5 | 15,500 | 15,500 |
| South Central | 54,300 | 52,800 | 15.7 | 15.8 | 852,500 | 834,000 |
| Dakota | 5,200 | 4,800 | 16.3 | 16.4 | 84,500 | 78,500 |
| Dodge | 7,700 | 7,300 | 16.2 | 16.4 | 124,500 | 119,500 |
| Fillmore | 17,600 | 17,700 | 15.6 | 15.6 | 275,000 | 275,500 |
| Goodhue | 24,800 | 25,200 | 16.7 | 16.6 | 415,000 | 418,000 |
| Houston | 11,700 | 11,300 | 16.1 | 16.0 | 188,500 | 181,000 |
| Mower | 5,800 | 5,500 | 16.6 | 16.7 | 96,000 | 92,000 |
| Olmsted | 12,700 | 11,900 | 16.1 | 16.3 | 204,000 | 194,000 |
| Wabasha | 20,500 | 21,200 | 16.5 | 16.3 | 337,500 | 345,500 |
| Winona | 25,800 | 26,600 | 16.2 | 16.6 | 417,000 | 441,500 |
| Southeast | 131,800 | 131,500 | 16.3 | 16.3 | 2,142,000 | 2,145,500 |
| Minnesota | 598,000 | 583,000 | 15.8 | 15.8 | 9,440,000 | 9,210,000 |

MINNESOTA'S GRADE B MILK DECLINING SHARE OF ALL MILK



MINNESOTA'S MONTHLY MILK PRODUCTION AND MILK COWS



DAIRY: FARM NUMBERS BY COUNTY AND DISTRICT, MINNESOTA, JANUARY 1998

| County and District | Grade A | Grade B | Total | County and District | Grade A | Grade B | Total |
|-----------------------------|---------|---------------|-------|-----------------------------|---------|---------------|-------|
| | | <u>Number</u> | | | | <u>Number</u> | |
| Becker | 144 | 32 | 176 | Aitkin | 22 | 19 | 41 |
| Clay | 37 | 6 | 43 | Anoka | 3 | -- | 3 |
| Clearwater | 18 | 14 | 32 | Carlton | 33 | 18 | 51 |
| Kittson | 4 | -- | 4 | Chisago | 54 | 17 | 71 |
| Mahnomen | 32 | 8 | 40 | Crow Wing | 33 | 16 | 49 |
| Marshall | 23 | 4 | 27 | Hennepin | 48 | 2 | 50 |
| Norman | 19 | 8 | 27 | Isanti | 25 | 8 | 33 |
| Pennington | 21 | 13 | 34 | Kanabec | 52 | 17 | 69 |
| Polk | 53 | 22 | 75 | Mille Lacs | 97 | 38 | 135 |
| Red Lake | 24 | 7 | 31 | Pine | 123 | 52 | 175 |
| Roseau | 44 | 10 | 54 | Ramsey | 1 | -- | 1 |
| <u>Northwest</u> | 419 | 124 | 543 | Washington | 29 | 3 | 32 |
| | | | | <u>East Central</u> | 520 | 190 | 710 |
| Beltrami | 41 | 5 | 46 | Cottonwood | 11 | 9 | 20 |
| Cass | 24 | 26 | 50 | Jackson | 11 | 2 | 13 |
| Hubbard | 12 | 3 | 15 | Lincoln | 32 | 25 | 57 |
| Itasca | 7 | 4 | 11 | Lyon | 25 | 13 | 38 |
| Koochiching | 6 | -- | 6 | Murray | 32 | 18 | 50 |
| Lake of the Woods | 4 | -- | 4 | Nobles | 28 | 18 | 46 |
| <u>North Central</u> | 94 | 38 | 132 | Pipestone | 55 | 33 | 88 |
| Cook | -- | -- | -- | Redwood | 28 | 19 | 47 |
| Lake | -- | -- | -- | Rock | 26 | 8 | 34 |
| St. Louis | 25 | 5 | 30 | <u>Southwest</u> | 248 | 145 | 393 |
| <u>Northeast</u> | 25 | 5 | 30 | | | | |
| Big Stone | 16 | 7 | 23 | Blue Earth | 22 | 12 | 34 |
| Chippewa | 9 | 4 | 13 | Brown | 118 | 41 | 159 |
| Douglas | 191 | 41 | 232 | Faribault | 24 | 8 | 32 |
| Grant | 25 | 6 | 31 | Freeborn | 38 | 13 | 51 |
| Lac Qui Parle | 16 | 13 | 29 | Le Sueur | 56 | 12 | 68 |
| Otter Tail | 482 | 80 | 562 | Martin | 12 | 8 | 20 |
| Pope | 120 | 13 | 133 | Nicollet | 57 | 20 | 77 |
| Stevens | 14 | 1 | 15 | Rice | 149 | 38 | 187 |
| Swift | 39 | 11 | 50 | Steele | 81 | 22 | 103 |
| Traverse | 2 | 2 | 4 | Waseca | 46 | 8 | 54 |
| Wilkin | 16 | 3 | 19 | Watsonwan | 14 | 6 | 20 |
| Yellow Medicine | 22 | 12 | 34 | <u>South Central</u> | 617 | 188 | 805 |
| <u>West Central</u> | 952 | 193 | 1,145 | | | | |
| Benton | 174 | 36 | 210 | Dakota | 63 | 6 | 69 |
| Carver | 180 | 53 | 233 | Dodge | 83 | 13 | 96 |
| Kandiyohi | 141 | 23 | 164 | Fillmore | 212 | 134 | 346 |
| McLeod | 158 | 52 | 210 | Goodhue | 298 | 37 | 335 |
| Meeker | 108 | 32 | 140 | Houston | 141 | 65 | 206 |
| Morrison | 402 | 81 | 483 | Mower | 70 | 14 | 84 |
| Renville | 41 | 13 | 54 | Olmsted | 144 | 32 | 176 |
| Scott | 94 | 27 | 121 | Wabasha | 246 | 49 | 295 |
| Sherburne | 23 | 5 | 28 | Winona | 296 | 57 | 353 |
| Sibley | 114 | 34 | 148 | <u>Southeast</u> | 1,553 | 407 | 1,960 |
| Stearns | 1,034 | 120 | 1,154 | | | | |
| Todd | 384 | 92 | 476 | <u>Minnesota</u> | 7,577 | 1,937 | 9,514 |
| Wadena | 101 | 28 | 129 | | | | |
| Wright | 195 | 51 | 246 | | | | |
| <u>Central</u> | 3,149 | 647 | 3,796 | | | | |

SOURCE: MN DEPARTMENT OF AGRICULTURE, DAIRY & FOOD DIVISION AND USDA AGRICULTURAL MARKETING SERVICE

POULTRY

In 1997, Minnesota's turkey growers raised 46.0 million turkeys, up 6% from the previous year. The total liveweight of turkeys produced was a record-high 1.026 billion pounds. The average price received for turkeys in 1997 was 39 cents per pound, down 6 cents from 1996. The value of the state's turkey production in 1997 was down 6% to \$400.1 million.

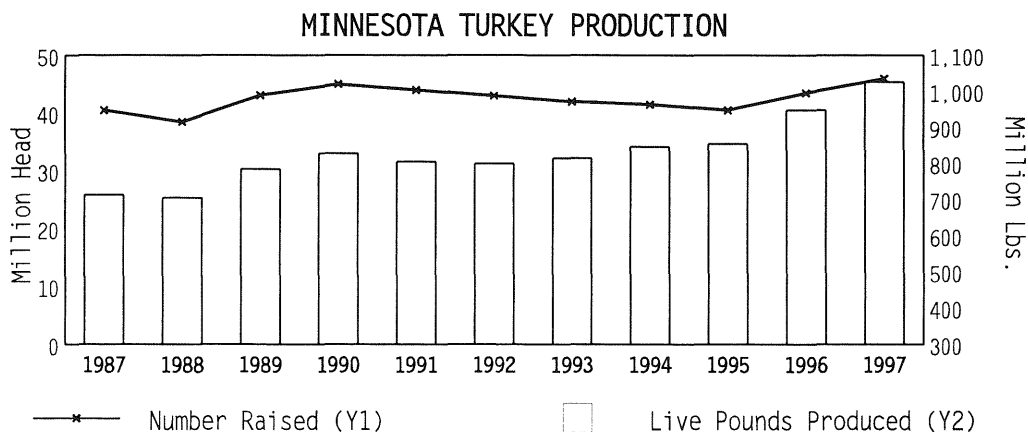
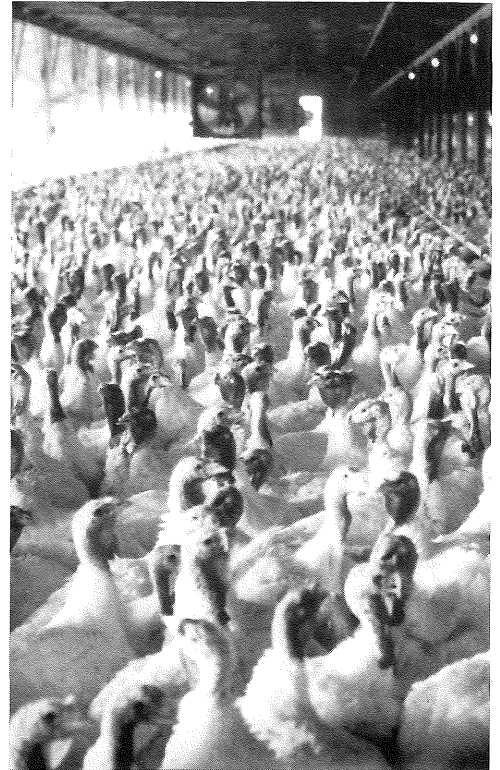
During 1997, hatcheries in the West North Central Region (which includes the states of Iowa, Kansas, Missouri, Nebraska, North Dakota, South Dakota, and Minnesota) placed 96.0 million turkey poults, up 7% from 1996.

The state's egg production in 1997 was 2.96 billion eggs, a decrease of 4% from 1996. The value of eggs produced fell 8% in 1997 to \$137.7 million. The all-egg price decreased to 55.9 cents per dozen. The annual average number of layers on farms rose 1% to 12.0 million. The total chicken inventory (excluding broilers) on December 1, 1997 was down 2% to 14.7 million birds.

Value of sales from chickens (excluding broilers) rose 194% to \$586,000.

In 1997 the number of broilers produced decreased 3% to 46.3 million. From 1996 to 1997, value of production decreased 4% to \$90.3 million. The annual average price per pound remained at 37.5 cents per pound.

Hatchery production of egg-type chicks decreased 6% to 22.9 million in 1997. These poultry estimates are based on survey data obtained from producers, hatcheries, and processing plants.



POULTRY: CHICKEN INVENTORY, EGG PRODUCTION, AND VALUE, MINNESOTA, 1993-97

| Year | Chickens on Farms, Dec 1 | | Chickens 1/ | | Eggs 1/ | | Egg-Type Chicks Hatched |
|------|-----------------------------|---------------------------------|--------------------|----------------------|--------------------|------------------------|-------------------------------|
| | All | Hens & Pullets of Laying Age | Number Sold | Value of Sales | Number Produced | Value of Production | |
| | <u>1,000 Birds</u> | | <u>1,000 Birds</u> | <u>1,000 Dollars</u> | <u>Mil. Eggs</u> | <u>1,000 Dollars</u> | <u>1,000 Birds</u> |
| 1993 | 13,460 | 10,345 | 5,200 | 710 | 2,692 | 103,193 | 23,478 |
| 1994 | 14,230 | 10,885 | 6,800 | 318 | 2,669 | 88,967 | 23,397 |
| 1995 | 14,800 | 11,435 | 4,664 | 118 | 2,823 | 98,335 | 26,447 |
| 1996 | 14,995 | 11,860 | 5,015 | 199 | 3,087 | 150,491 | 24,256 |
| 1997 | 14,730 | 11,955 | 5,400 | 586 | 2,957 | 137,747 | 22,866 |

1/ December previous year through November current year.

POULTRY: BROILER AND TURKEY PRODUCTION, AND VALUE, MINNESOTA, 1993-97

| Year | Commercial Broilers 1/ | | Turkeys | |
|------|------------------------|------------------------|--------------------|------------------------|
| | Number Raised | Value of Production | Number Raised | Value of Production |
| | <u>1,000 Birds</u> | <u>1,000 Dollars</u> | <u>1,000 Birds</u> | <u>1,000 Dollars</u> |
| 1993 | 46,600 | 80,818 | 42,000 | 285,180 |
| 1994 | 47,800 | 84,524 | 41,500 | 304,776 |
| 1995 | 48,000 | 83,616 | 40,500 | 299,093 |
| 1996 | 47,500 | 94,425 | 43,500 | 426,735 |
| 1997 | 46,300 | 90,300 | 46,000 | 400,062 |

1/ December previous year through November current year.

POULTRY: LAYERS AND EGG PRODUCTION BY DISTRICT, MINNESOTA 1996-97

| District | Annual Average Layers | | Annual Average Eggs per Layer | | Total Egg Production | |
|------------------------|--------------------------|------------|----------------------------------|------|-------------------------|-----------|
| | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 |
| | <u>Number</u> | | <u>Number</u> | | <u>1,000 Eggs</u> | |
| <u>Northwest</u> | 1,133,000 | 1,105,000 | 265 | 258 | 300,800 | 285,100 |
| <u>West Central</u> | 559,000 | 545,000 | 262 | 255 | 146,500 | 139,000 |
| <u>Central</u> | 6,209,000 | 6,452,000 | 257 | 252 | 1,597,000 | 1,624,300 |
| <u>Southwest</u> | 473,000 | 384,000 | 264 | 257 | 124,700 | 98,700 |
| <u>South Central</u> | 2,735,000 | 2,340,000 | 258 | 252 | 705,700 | 589,700 |
| <u>Southeast</u> | 273,000 | 230,000 | 256 | 250 | 69,900 | 57,500 |
| <u>Other Districts</u> | 560,000 | 656,000 | 254 | 248 | 142,400 | 162,700 |
| <u>MINNESOTA</u> | 11,942,000 | 11,712,000 | 258 | 252 | 3,087,000 | 2,957,000 |

Note: County estimates were discontinued to protect the confidentiality of individual poultry operations.

POULTRY: PRODUCTION BY MONTH, MINNESOTA, 1993-97

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual 1/ |
|--|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|
| Chickens: Layers on Farms | | | | | | | | | | | | | |
| | <u>Million</u> | | | | | | | | | | | | |
| 1993 | 11.0 | 10.8 | 10.8 | 10.7 | 10.6 | 10.6 | 10.6 | 10.6 | 10.7 | 10.7 | 10.5 | 10.4 | 10.7 |
| 1994 | 10.4 | 10.4 | 10.5 | 10.5 | 10.2 | 10.1 | 10.2 | 10.3 | 10.4 | 10.6 | 10.9 | 11.0 | 10.4 |
| 1995 | 11.0 | 11.1 | 11.1 | 11.1 | 11.1 | 10.9 | 10.7 | 10.7 | 10.9 | 11.0 | 11.2 | 11.5 | 11.0 |
| 1996 | 11.6 | 11.7 | 11.9 | 12.0 | 11.9 | 11.9 | 12.2 | 12.3 | 12.2 | 12.2 | 12.1 | 11.9 | 11.9 |
| 1997 | 11.9 | 11.9 | 11.8 | 11.7 | 11.6 | 11.5 | 11.5 | 11.6 | 11.6 | 11.7 | 11.8 | 12.0 | 11.7 |
| Eggs: Average Number Laid per Layer per Month | | | | | | | | | | | | | |
| | <u>Number</u> | | | | | | | | | | | | |
| 1993 | 21.0 | 19.4 | 21.5 | 20.9 | 21.5 | 20.2 | 20.8 | 20.9 | 20.7 | 21.6 | 21.2 | 21.6 | 251 |
| 1994 | 20.9 | 19.1 | 21.8 | 21.4 | 21.7 | 21.2 | 22.4 | 22.2 | 21.1 | 22.0 | 21.3 | 22.3 | 257 |
| 1995 | 22.2 | 19.8 | 22.2 | 21.3 | 21.5 | 21.1 | 21.6 | 21.4 | 20.7 | 21.4 | 21.3 | 22.3 | 257 |
| 1996 | 22.0 | 20.7 | 22.2 | 21.4 | 21.9 | 21.1 | 21.8 | 21.7 | 21.2 | 21.6 | 20.6 | 21.4 | 258 |
| 1997 | 21.4 | 19.4 | 21.8 | 21.0 | 21.5 | 20.6 | 21.2 | 21.0 | 20.7 | 21.7 | 20.9 | 21.8 | 252 |
| Eggs: Production on Farms 2/ | | | | | | | | | | | | | |
| | <u>Million Eggs</u> | | | | | | | | | | | | |
| 1993 | 230 | 210 | 231 | 224 | 228 | 214 | 220 | 222 | 222 | 232 | 223 | 224 | 2,692 |
| 1994 | 217 | 199 | 230 | 224 | 220 | 213 | 228 | 229 | 219 | 234 | 232 | 245 | 2,669 |
| 1995 | 245 | 220 | 246 | 236 | 239 | 231 | 232 | 230 | 226 | 235 | 238 | 255 | 2,823 |
| 1996 | 255 | 242 | 264 | 256 | 260 | 252 | 267 | 266 | 258 | 264 | 248 | 255 | 3,087 |
| 1997 | 255 | 230 | 256 | 246 | 249 | 237 | 244 | 244 | 241 | 253 | 247 | 261 | 2,957 |
| Chickens: Egg-Type Hatchery Production | | | | | | | | | | | | | |
| | <u>1,000 Birds</u> | | | | | | | | | | | | |
| 1993 | 1,689 | 2,068 | 1,859 | 1,839 | 2,191 | 1,783 | 2,044 | 1,996 | 1,666 | 1,733 | 2,436 | 2,174 | 23,478 |
| 1994 | 2,176 | 2,199 | 1,790 | 1,974 | 2,418 | 1,810 | 1,503 | 1,762 | 2,091 | 1,874 | 1,796 | 2,004 | 23,397 |
| 1995 | 1,683 | 2,215 | 2,251 | 2,167 | 2,335 | 2,411 | 2,232 | 2,341 | 2,044 | 2,134 | 2,448 | 2,186 | 26,447 |
| 1996 | 1,915 | 2,326 | 2,037 | 2,196 | 2,179 | 2,022 | 1,991 | 1,951 | 1,684 | 1,984 | 1,961 | 2,010 | 24,256 |
| 1997 | 2,173 | 2,247 | 1,963 | 1,840 | 2,234 | 1,828 | 1,794 | 1,507 | 2,041 | 1,946 | 1,483 | 1,810 | 22,866 |

1/ Annual data for layers and eggs represent December previous year to November current year. Annual data for hatcheries represent calendar year.

2/ Based on unrounded number of layers and eggs per layer.

POULTRY: PRODUCTION BY MONTH, WEST NORTH CENTRAL REGION, 1993-97

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual 1/ |
|--|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|
| Turkeys: Hatchery Placements 2/ | | | | | | | | | | | | | |
| | <u>1,000 Birds</u> | | | | | | | | | | | | |
| 1993 | 6,347 | 7,232 | 7,864 | 8,325 | 7,884 | 8,467 | 7,711 | 7,063 | 5,655 | 5,704 | 6,631 | 6,927 | 85,810 |
| 1994 | 6,687 | 7,065 | 8,383 | 7,882 | 8,256 | 8,592 | 7,704 | 7,589 | 6,834 | 6,408 | 6,651 | 6,910 | 88,961 |
| 1995 | 7,143 | 7,184 | 8,210 | 7,640 | 8,652 | 8,718 | 8,102 | 7,566 | 6,244 | 7,015 | 6,944 | 6,644 | 90,062 |
| 1996 | 7,375 | 7,802 | 7,590 | 8,800 | 8,460 | 7,760 | 8,121 | 7,375 | 6,128 | 6,382 | 6,212 | 7,765 | 89,770 |
| 1997 | 7,586 | 8,025 | 8,141 | 8,365 | 8,688 | 8,802 | 9,104 | 8,069 | 7,077 | 7,292 | 6,955 | 7,904 | 96,008 |

1/ Annual data for hatcheries represent calendar year.

2/ Totals are placements from West North Central Region hatcheries which include Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, and South Dakota. Data represent total placements excluding exported poults.

MINK: OPERATIONS AND PRODUCTION, MINNESOTA, 1993-97

| Year | Number of Mink Farms | Pelts Produced | Females Bred 1/ |
|------|----------------------|----------------|-----------------|
| | | <u>Number</u> | |
| 1993 | 59 | 302,200 | 74,000 |
| 1994 | 53 | 305,000 | 75,500 |
| 1995 | 52 | 306,000 | 68,500 |
| 1996 | 40 | 293,300 | 68,500 |
| 1997 | 39 | 310,200 | 67,600 |

1/ Females bred to produce kits the following year.

BEE AND HONEY: COLONIES AND PRODUCTION, MINNESOTA, 1993-97

| Year | Number of Colonies | Yield per Colony | Production | Stocks Dec 15 1/ | Average Price per Pound | Value of Production |
|------|--------------------|------------------|-------------------|------------------|-------------------------|---------------------|
| | <u>1,000</u> | <u>Pounds</u> | <u>1,000 Lbs.</u> | | <u>Cents</u> | <u>1,000 Dols.</u> |
| 1993 | 180 | 80 | 14,400 | 2,160 | 53 | 7,632 |
| 1994 | 170 | 79 | 13,430 | 2,149 | 52 | 6,984 |
| 1995 | 165 | 82 | 13,530 | 1,218 | 70 | 9,471 |
| 1996 | 150 | 77 | 11,550 | 1,617 | 90 | 10,395 |
| 1997 | 145 | 73 | 10,585 | 2,011 | 74 | 7,833 |

1/ Does not include stocks under loan.



Section 4

Farm Prices



CROP PRICES

The 1997 Minnesota annual average price for corn decreased 2 cents from 1996 and soybeans decreased 96 cents. Wheat decreased 60 cents and dry beans decreased \$5.50 while hay increased \$10.50. The primary source of the crop prices listed in the following tables are elevators and dealers, who buy directly from farmers. The marketing year for different crops may be found in the footnotes following the tables.

PRICES RECEIVED BY FARMERS FOR CROPS: BY MONTH, MINNESOTA, 1993-97

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Marketing Year Average Price 1/ |
|----------------------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| Corn 2/ | | | | | | | | | | | | | |
| | <u>Dollars per Bushel</u> | | | | | | | | | | | | |
| 1993 | 1.84 | 1.84 | 1.89 | 1.98 | 1.95 | 1.93 | 2.04 | 1.99 | 2.02 | 2.07 | 2.17 | 2.39 | 2.26 |
| 1994 | 2.50 | 2.56 | 2.52 | 2.40 | 2.38 | 2.39 | 2.13 | 1.95 | 1.83 | 1.95 | 1.89 | 1.95 | 2.23 |
| 1995 | 1.99 | 2.04 | 2.11 | 2.19 | 2.24 | 2.35 | 2.48 | 2.44 | 2.47 | 2.50 | 2.59 | 2.79 | 3.14 |
| 1996 | 2.84 | 3.08 | 3.20 | 3.53 | 3.61 | 3.71 | 3.94 | 3.95 | 3.56 | 2.68 | 2.54 | 2.44 | 2.47 |
| 1997 | 2.44 | 2.41 | 2.59 | 2.59 | 2.52 | 2.48 | 2.29 | 2.29 | 2.27 | 2.35 | 2.35 | 2.34 | 2.45 |
| Soybeans 3/ | | | | | | | | | | | | | |
| | <u>Dollars per Bushel</u> | | | | | | | | | | | | |
| 1993 | 5.44 | 5.38 | 5.48 | 5.56 | 5.62 | 5.68 | 6.38 | 6.35 | 5.90 | 5.86 | 6.08 | 6.45 | 6.18 |
| 1994 | 6.56 | 6.48 | 6.46 | 6.38 | 6.57 | 6.50 | 5.70 | 5.44 | 5.47 | 5.32 | 5.17 | 5.22 | 5.37 |
| 1995 | 5.19 | 5.18 | 5.24 | 5.38 | 5.32 | 5.48 | 5.72 | 5.61 | 5.69 | 5.86 | 6.10 | 6.41 | 6.59 |
| 1996 | 6.55 | 6.69 | 6.79 | 7.19 | 7.36 | 7.17 | 7.39 | 7.59 | 7.55 | 6.84 | 6.69 | 6.64 | 7.26 |
| 1997 | 6.86 | 7.17 | 7.79 | 8.08 | 8.23 | 8.22 | 7.44 | 7.02 | 6.48 | 6.27 | 6.61 | 6.69 | 6.30 |
| Sunflowers 3/ | | | | | | | | | | | | | |
| | <u>Dollars per Cwt.</u> | | | | | | | | | | | | |
| 1993 | 11.90 | 11.40 | 11.70 | 12.00 | 12.10 | 11.80 | 12.80 | 11.90 | 11.10 | 11.90 | 13.60 | 15.90 | 14.10 |
| 1994 | 16.00 | 15.80 | 16.20 | 16.00 | 17.40 | 4/ | 14.20 | 15.10 | 10.80 | 11.80 | 11.90 | 11.40 | 11.60 |
| 1995 | 12.00 | 12.10 | 11.20 | 11.40 | 11.00 | 11.10 | 11.20 | 11.90 | 9.99 | 11.60 | 11.30 | 11.70 | 11.80 |
| 1996 | 11.60 | 12.30 | 12.50 | 13.60 | 13.40 | 15.20 | 13.20 | 11.70 | 9.68 | 12.90 | 13.20 | 14.10 | 13.10 |
| 1997 | 14.00 | 13.60 | 12.70 | 13.60 | 12.70 | 13.00 | 12.10 | 10.70 | 13.20 | 11.70 | 11.40 | 11.20 | 12.40 |
| All Wheat 5/ | | | | | | | | | | | | | |
| | <u>Dollars per Bushel</u> | | | | | | | | | | | | |
| 1993 | 3.33 | 3.24 | 3.32 | 3.34 | 3.04 | 3.01 | 3.35 | 2.97 | 2.78 | 3.19 | 3.32 | 3.57 | 3.31 |
| 1994 | 3.42 | 3.43 | 3.35 | 3.34 | 3.62 | 3.15 | 3.03 | 3.18 | 3.28 | 3.41 | 3.45 | 3.43 | 3.33 |
| 1995 | 3.35 | 3.32 | 3.16 | 3.21 | 3.51 | 3.70 | 4.26 | 4.21 | 4.24 | 4.50 | 4.59 | 4.81 | 4.71 |
| 1996 | 4.72 | 4.87 | 4.91 | 5.33 | 5.64 | 5.87 | 5.17 | 4.69 | 4.59 | 4.26 | 4.31 | 3.99 | 4.25 |
| 1997 | 4.03 | 3.84 | 3.94 | 4.08 | 3.99 | 3.78 | 3.51 | 3.77 | 3.67 | 3.46 | 3.58 | 3.49 | 3.65 |
| Oats 5/ | | | | | | | | | | | | | |
| | <u>Dollars per Bushel</u> | | | | | | | | | | | | |
| 1993 | 1.33 | 1.37 | 1.38 | 1.38 | 1.37 | 1.39 | 1.31 | 1.26 | 1.31 | 1.26 | 1.38 | 1.38 | 1.32 |
| 1994 | 1.41 | 1.41 | 1.42 | 1.41 | 1.40 | 1.25 | 1.08 | 1.08 | 1.14 | 1.15 | 1.14 | 1.24 | 1.15 |
| 1995 | 1.14 | 1.23 | 1.16 | 1.32 | 1.29 | 1.34 | 1.42 | 1.31 | 1.28 | 1.40 | 1.65 | 1.80 | 1.59 |
| 1996 | 1.88 | 1.90 | 1.96 | 2.05 | 2.15 | 2.10 | 2.04 | 1.87 | 1.80 | 1.63 | 1.77 | 1.63 | 1.84 |
| 1997 | 1.63 | 1.67 | 1.83 | 1.78 | 1.80 | 1.73 | 1.56 | 1.44 | 1.42 | 1.50 | 1.56 | 1.58 | 1.50 |

1/ 1997 is preliminary.

2/ Marketing year, October through September.

3/ Marketing year, September through August.

4/ Volume of sales too small to estimate a price.

5/ Marketing year, July through June.

--continued

PRICES RECEIVED BY FARMERS FOR CROPS: BY MONTH, MINNESOTA, 1993-97 (continued)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Marketing Year Average Price 1/ |
|--------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--|
| Barley 2/ | | | | | | | | | | | | | |
| <u>Dollars per Bushel</u> | | | | | | | | | | | | | |
| 1993 | 1.87 | 1.84 | 1.88 | 1.90 | 1.83 | 1.80 | 1.78 | 1.61 | 1.40 | 1.68 | 1.79 | 1.82 | 1.76 |
| 1994 | 1.87 | 1.86 | 1.85 | 1.88 | 1.90 | 1.77 | 1.90 | 1.68 | 1.78 | 1.74 | 1.77 | 1.85 | 1.81 |
| 1995 | 1.71 | 1.85 | 1.91 | 1.87 | 2.02 | 1.99 | 2.08 | 1.95 | 2.09 | 2.39 | 2.61 | 2.72 | 2.55 |
| 1996 | 2.98 | 2.80 | 2.74 | 2.89 | 3.02 | 3.18 | 2.96 | 2.74 | 2.48 | 2.29 | 2.32 | 2.26 | 2.38 |
| 1997 | 2.25 | 2.17 | 2.20 | 2.24 | 2.22 | 2.06 | 2.02 | 1.84 | 1.86 | 2.09 | 1.95 | 1.88 | 1.95 |
| All Hay Baled 3/ | | | | | | | | | | | | | |
| <u>Dollars per Ton</u> | | | | | | | | | | | | | |
| 1993 | 87.00 | 90.00 | 93.00 | 92.00 | 93.00 | 91.00 | 83.00 | 98.00 | 96.00 | 92.00 | 94.00 | 105.00 | 95.00 |
| 1994 | 90.00 | 103.00 | 103.00 | 103.00 | 83.00 | 79.00 | 74.00 | 65.00 | 63.00 | 70.00 | 69.00 | 74.00 | 71.00 |
| 1995 | 73.00 | 72.00 | 71.00 | 67.00 | 67.00 | 72.00 | 70.00 | 63.00 | 60.00 | 68.00 | 71.00 | 84.00 | 72.50 |
| 1996 | 84.00 | 80.00 | 76.00 | 79.00 | 75.00 | 73.00 | 66.00 | 60.00 | 68.00 | 72.00 | 86.00 | 84.00 | 81.00 |
| 1997 | 90.00 | 87.00 | 93.00 | 95.00 | 108.00 | 96.00 | 94.00 | 91.00 | 93.00 | 91.00 | 89.00 | 90.00 | 91.50 |
| Alfalfa Hay, Baled 3/ | | | | | | | | | | | | | |
| <u>Dollars per Ton</u> | | | | | | | | | | | | | |
| 1993 | 91.00 | 93.00 | 95.00 | 97.00 | 95.00 | 92.00 | 88.00 | 100.00 | 101.00 | 98.00 | 98.00 | 110.00 | 99.00 |
| 1994 | 104.00 | 110.00 | 109.00 | 107.00 | 89.00 | 82.00 | 75.00 | 72.00 | 70.00 | 72.00 | 74.00 | 80.00 | 75.50 |
| 1995 | 79.00 | 76.00 | 78.00 | 73.00 | 77.00 | 78.00 | 76.00 | 75.00 | 62.00 | 71.00 | 83.00 | 93.00 | 81.50 |
| 1996 | 93.00 | 90.00 | 84.00 | 84.00 | 84.00 | 85.00 | 83.00 | 83.00 | 85.00 | 82.00 | 93.00 | 91.00 | 96.00 |
| 1997 | 98.00 | 101.00 | 103.00 | 109.00 | 115.00 | 110.00 | 104.00 | 103.00 | 102.00 | 97.00 | 100.00 | 95.00 | 101.00 |
| All Other Hay, Baled 3/ | | | | | | | | | | | | | |
| <u>Dollars per Ton</u> | | | | | | | | | | | | | |
| 1993 | 56.00 | 61.00 | 58.00 | 60.00 | 60.00 | 58.00 | 57.00 | 68.00 | 73.00 | 70.00 | 63.00 | 76.00 | 67.00 |
| 1994 | 65.00 | 69.00 | 68.00 | 74.00 | 56.00 | 51.00 | 51.00 | 49.00 | 45.00 | 48.00 | 50.00 | 55.00 | 50.50 |
| 1995 | 59.00 | 56.00 | 54.00 | 52.00 | 45.00 | 46.00 | 44.00 | 44.00 | 45.00 | 40.00 | 42.00 | 48.00 | 45.00 |
| 1996 | 49.00 | 41.00 | 44.00 | 53.00 | 53.00 | 58.00 | 54.00 | 51.00 | 51.00 | 62.00 | 60.00 | 73.00 | 61.50 |
| 1997 | 74.00 | 75.00 | 71.00 | 70.00 | 67.00 | 63.00 | 69.00 | 73.00 | 73.00 | 68.00 | 63.00 | 68.00 | 67.00 |
| Dry Beans 4/ | | | | | | | | | | | | | |
| <u>Dollars per Cwt.</u> | | | | | | | | | | | | | |
| 1993 | 23.10 | 27.80 | 24.60 | 18.50 | 17.50 | 15.00 | 17.90 | 20.70 | 21.80 | 22.50 | 25.40 | 26.40 | 23.80 |
| 1994 | 26.30 | 23.50 | 23.70 | 23.60 | 23.20 | 26.80 | 24.40 | 21.90 | 22.00 | 23.30 | 19.70 | 20.00 | 21.50 |
| 1995 | 21.20 | 20.70 | 19.60 | 20.00 | 21.40 | 22.50 | 19.80 | 20.00 | 17.10 | 17.10 | 16.70 | 20.20 | 18.90 |
| 1996 | 21.30 | 21.40 | 17.80 | 20.20 | 23.80 | 26.80 | 29.00 | 28.10 | 26.50 | 24.40 | 26.10 | 21.90 | 23.00 |
| 1997 | 23.50 | 21.30 | 21.90 | 17.40 | 18.30 | 17.30 | 18.90 | 5/ | 16.30 | 16.00 | 16.60 | 17.50 | 17.50 |
| Potatoes 2/ | | | | | | | | | | | | | |
| <u>Dollars per Cwt.</u> | | | | | | | | | | | | | |
| 1993 | 4.30 | 4.40 | 4.85 | 5.85 | 5.00 | 5/ | 10.00 | 5.35 | 4.80 | 5.30 | 5.85 | 5.35 | 5.65 |
| 1994 | 5.60 | 7.00 | 6.75 | 7.25 | 8.05 | 5/ | 8.80 | 5.55 | 4.80 | 4.80 | 5.05 | 5.30 | 4.90 |
| 1995 | 4.90 | 4.85 | 5.15 | 5.15 | 4.70 | 4.60 | 8.50 | 6.50 | 5.00 | 4.70 | 4.55 | 4.95 | 5.25 |
| 1996 | 6.10 | 5.95 | 5.85 | 6.05 | 6.30 | 5.00 | 5/ | 7.35 | 4.75 | 5.05 | 4.55 | 4.30 | 4.75 |
| 1997 | 4.30 | 4.35 | 4.70 | 4.35 | 4.40 | 1.25 | 5/ | 7.40 | 5.35 | 4.70 | 5.10 | 4.95 | 5.30 |

1/ 1997 is preliminary.

2/ Marketing year, July through June.

3/ Marketing year, June through May.

4/ Marketing year, September through August.

5/ Not published due to insufficient marketings.

LIVESTOCK, DAIRY, AND POULTRY PRICES

The livestock and dairy price statistics included in these tables are based on reports from farmers, auction markets, livestock buyers, meat and poultry processing plants, Market News Service, produce houses, egg handlers and dealers, marketing cooperatives, dairy plants, and other firms doing business with farmers. The marketing year for livestock, dairy, and poultry items is a calendar year except for hogs, chickens, and eggs, which are on a December-November basis.

The 1997 Minnesota annual average prices for meat animals were higher than 1996. Beef cattle and steers and heifers both increased \$3.30, while cows increased \$3.50 and calves were up \$13.70. All hogs were up \$1.10 per cwt., while barrows and gilts were up 90 cents and sows increased \$3.60. Sheep gained \$8.00 while lambs increased \$5.10. Milk cows for dairy herd replacement were unchanged. Turkeys were down 6 cents per pound while table market eggs were down 3 cents per dozen. All milk was down \$1.41 per 100 pounds while grade A milk was down \$1.42. Manufacturing grade milk was down \$1.44 per 100 pounds.

PRICES RECEIVED BY FARMERS FOR LIVESTOCK: BY MONTH, MINNESOTA, 1993-97

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual Average Price |
|---------------------------|-------|-------|--------|--------|-------|--------|--------|-------|--------|-------|-------|-------|----------------------|
| Beef Cattle 1/ | | | | | | | | | | | | | |
| Dollars per Cwt. | | | | | | | | | | | | | |
| 1993 | 69.50 | 69.60 | 70.90 | 71.70 | 71.10 | 67.40 | 65.30 | 64.20 | 62.90 | 61.10 | 62.30 | 60.20 | 66.20 |
| 1994 | 60.60 | 60.20 | 64.70 | 64.80 | 60.00 | 55.50 | 55.70 | 57.50 | 57.20 | 57.40 | 58.10 | 56.80 | 59.00 |
| 1995 | 60.20 | 61.50 | 60.50 | 58.60 | 56.20 | 55.00 | 53.00 | 53.10 | 53.60 | 54.70 | 55.00 | 57.20 | 56.60 |
| 1996 | 55.40 | 54.50 | 55.10 | 52.90 | 54.70 | 54.70 | 58.60 | 59.30 | 61.20 | 62.40 | 65.10 | 60.20 | 57.80 |
| 1997 | 59.70 | 59.70 | 61.10 | 62.00 | 62.10 | 61.20 | 61.40 | 62.10 | 61.60 | 60.90 | 61.00 | 60.80 | 61.10 |
| Steers and Heifers | | | | | | | | | | | | | |
| Dollars per Cwt. | | | | | | | | | | | | | |
| 1993 | 72.80 | 72.60 | 74.00 | 74.70 | 73.30 | 69.70 | 67.10 | 66.20 | 64.90 | 62.80 | 65.00 | 62.10 | 68.60 |
| 1994 | 62.10 | 61.80 | 66.50 | 66.40 | 61.20 | 56.60 | 56.60 | 59.00 | 58.70 | 59.00 | 60.70 | 58.90 | 60.50 |
| 1995 | 62.80 | 63.50 | 62.30 | 60.30 | 58.10 | 56.70 | 54.60 | 54.90 | 55.60 | 57.20 | 58.20 | 59.70 | 58.60 |
| 1996 | 57.70 | 56.70 | 57.20 | 56.00 | 58.00 | 58.00 | 60.80 | 62.10 | 64.90 | 66.20 | 67.10 | 64.30 | 60.70 |
| 1997 | 63.00 | 62.00 | 63.90 | 64.50 | 64.80 | 63.50 | 63.80 | 64.60 | 64.90 | 64.10 | 64.20 | 64.00 | 64.00 |
| Cows 2/ | | | | | | | | | | | | | |
| Dollars per Cwt. | | | | | | | | | | | | | |
| 1993 | 46.60 | 49.20 | 47.00 | 48.20 | 49.60 | 49.30 | 49.10 | 48.70 | 47.90 | 46.50 | 45.90 | 45.10 | 47.60 |
| 1994 | 47.30 | 48.70 | 49.30 | 49.30 | 47.70 | 45.40 | 45.20 | 44.00 | 43.70 | 41.60 | 37.20 | 37.50 | 44.60 |
| 1995 | 37.70 | 40.90 | 41.80 | 38.50 | 37.50 | 38.40 | 35.80 | 36.20 | 35.60 | 34.20 | 30.60 | 32.00 | 36.40 |
| 1996 | 32.60 | 31.90 | 31.50 | 30.40 | 32.40 | 31.40 | 32.20 | 31.90 | 31.20 | 31.00 | 26.70 | 28.50 | 30.90 |
| 1997 | 29.80 | 32.70 | 36.60 | 38.00 | 37.00 | 36.90 | 37.90 | 36.30 | 34.00 | 33.50 | 31.10 | 32.50 | 34.40 |
| Calves | | | | | | | | | | | | | |
| Dollars per Cwt. | | | | | | | | | | | | | |
| 1993 | 89.20 | 91.70 | 101.00 | 102.00 | 99.00 | 111.00 | 100.00 | 90.50 | 100.00 | 93.70 | 91.90 | 96.60 | 97.10 |
| 1994 | 94.40 | 95.90 | 100.00 | 102.00 | 97.50 | 86.00 | 93.90 | 93.20 | 82.00 | 80.00 | 77.00 | 72.00 | 90.40 |
| 1995 | 79.00 | 85.00 | 85.80 | 85.60 | 73.20 | 74.20 | 70.00 | 67.20 | 66.50 | 65.00 | 62.00 | 62.60 | 72.90 |
| 1996 | 57.00 | 52.90 | 49.80 | 51.00 | 51.00 | 51.00 | 51.00 | 50.00 | 51.50 | 49.10 | 46.10 | 42.50 | 50.30 |
| 1997 | 57.50 | 65.00 | 63.60 | 65.40 | 63.70 | 61.70 | 64.50 | 68.30 | 68.90 | 62.00 | 62.50 | 65.00 | 64.00 |

1/ Cows and Steers and Heifers combined.

2/ Beef cows and dairy cows sold for slaughter.

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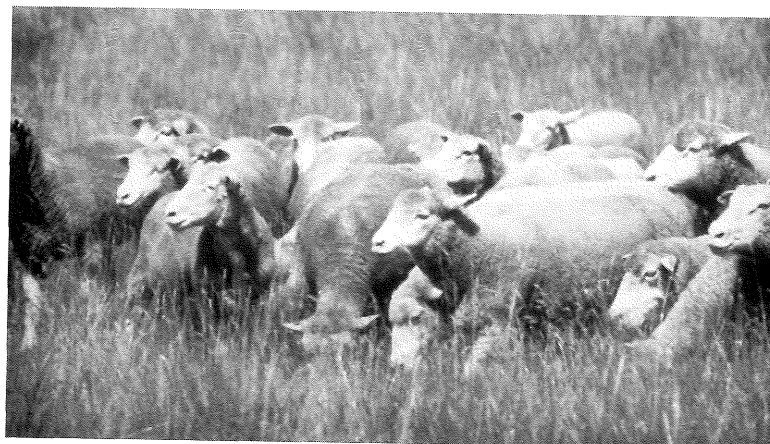
PRICES RECEIVED BY FARMERS FOR LIVESTOCK: BY MONTH, MINNESOTA, 1993-97 (continued)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual Average Price |
|-----------------------------|-------|--------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|----------------------------|
| Hogs 1/ 2/ | | | | | | | | | | | | | |
| <u>Dollars per Cwt.</u> | | | | | | | | | | | | | |
| 1993 | 42.70 | 45.40 | 48.50 | 46.80 | 48.40 | 49.40 | 47.20 | 48.90 | 48.30 | 48.20 | 43.90 | 41.60 | 46.60 |
| 1994 | 44.40 | 49.00 | 45.30 | 43.70 | 43.70 | 43.60 | 43.00 | 42.80 | 36.30 | 33.00 | 28.90 | 32.20 | 41.10 |
| 1995 | 39.10 | 40.30 | 38.90 | 36.90 | 38.30 | 43.80 | 48.00 | 50.50 | 49.70 | 47.50 | 41.10 | 44.80 | 41.90 |
| 1996 | 43.90 | 47.60 | 49.90 | 51.10 | 56.70 | 56.50 | 60.10 | 61.60 | 56.50 | 57.80 | 56.00 | 57.00 | 53.20 |
| 1997 | 54.80 | 54.00 | 50.40 | 54.50 | 59.20 | 58.90 | 60.40 | 57.30 | 51.90 | 49.00 | 46.80 | 43.10 | 54.30 |
| Barrows and Gilts 1/ | | | | | | | | | | | | | |
| <u>Dollars per Cwt.</u> | | | | | | | | | | | | | |
| 1993 | 43.10 | 45.80 | 48.80 | 47.10 | 48.80 | 50.00 | 47.70 | 49.60 | 48.80 | 48.60 | 44.30 | 42.00 | 47.10 |
| 1994 | 44.80 | 49.50 | 45.60 | 43.90 | 44.00 | 44.10 | 43.70 | 43.40 | 36.80 | 33.40 | 29.30 | 32.80 | 41.50 |
| 1995 | 39.70 | 40.70 | 39.20 | 37.20 | 38.70 | 44.50 | 48.90 | 51.20 | 50.40 | 47.80 | 41.40 | 45.40 | 42.50 |
| 1996 | 44.50 | 48.10 | 50.60 | 52.00 | 57.50 | 57.10 | 60.70 | 62.10 | 56.90 | 58.10 | 56.10 | 57.30 | 53.80 |
| 1997 | 55.10 | 54.20 | 50.60 | 54.90 | 59.60 | 59.40 | 61.00 | 57.80 | 52.40 | 49.40 | 47.20 | 43.40 | 54.70 |
| Sows 1/ | | | | | | | | | | | | | |
| <u>Dollars per Cwt.</u> | | | | | | | | | | | | | |
| 1993 | 33.30 | 35.60 | 40.40 | 39.90 | 38.70 | 37.10 | 34.80 | 35.70 | 36.80 | 36.90 | 34.90 | 30.80 | 35.80 |
| 1994 | 34.00 | 38.10 | 39.00 | 38.60 | 36.00 | 33.50 | 30.00 | 30.20 | 27.00 | 24.50 | 19.80 | 19.40 | 31.40 |
| 1995 | 26.10 | 29.30 | 31.60 | 30.00 | 28.90 | 29.60 | 29.50 | 34.90 | 36.10 | 39.60 | 32.40 | 32.40 | 30.30 |
| 1996 | 32.30 | 34.40 | 35.60 | 37.40 | 42.00 | 46.90 | 47.10 | 50.20 | 47.80 | 51.10 | 53.10 | 49.50 | 41.80 |
| 1997 | 48.00 | 48.30 | 46.40 | 45.70 | 50.80 | 47.50 | 47.10 | 45.90 | 41.30 | 39.50 | 36.10 | 34.10 | 45.40 |
| Sheep | | | | | | | | | | | | | |
| <u>Dollars per Cwt.</u> | | | | | | | | | | | | | |
| 1993 | 30.80 | 27.40 | 30.30 | 23.20 | 24.10 | 24.50 | 27.50 | 26.90 | 23.80 | 22.00 | 23.10 | 25.80 | 25.50 |
| 1994 | 28.20 | 28.70 | 28.40 | 24.20 | 23.20 | 29.40 | 25.10 | 24.20 | 25.70 | 24.00 | 27.10 | 29.30 | 26.10 |
| 1995 | 24.90 | 26.60 | 23.10 | 23.60 | 24.80 | 24.10 | 25.10 | 24.80 | 21.50 | 22.40 | 21.10 | 20.30 | 23.50 |
| 1996 | 26.50 | 30.60 | 30.00 | 23.50 | 21.60 | 19.60 | 27.40 | 26.60 | 27.00 | 24.70 | 24.90 | 32.00 | 25.80 |
| 1997 | 36.70 | 35.90 | 35.30 | 30.70 | 29.30 | 31.40 | 35.70 | 38.60 | 31.80 | 33.10 | 33.50 | 38.20 | 33.80 |
| Lambs | | | | | | | | | | | | | |
| <u>Dollars per Cwt.</u> | | | | | | | | | | | | | |
| 1993 | 69.90 | 76.00 | 79.20 | 70.00 | 63.20 | 57.40 | 53.60 | 60.40 | 65.30 | 65.40 | 68.80 | 66.60 | 66.40 |
| 1994 | 59.10 | 59.20 | 55.90 | 50.70 | 57.70 | 68.30 | 75.60 | 76.60 | 73.40 | 66.40 | 67.30 | 61.00 | 64.60 |
| 1995 | 61.70 | 69.00 | 72.30 | 70.30 | 82.00 | 89.40 | 84.40 | 82.50 | 81.60 | 72.70 | 70.20 | 72.90 | 75.30 |
| 1996 | 74.40 | 83.80 | 87.40 | 84.50 | 89.90 | 102.00 | 98.00 | 79.80 | 83.30 | 80.40 | 80.70 | 92.40 | 85.70 |
| 1997 | 99.70 | 102.00 | 99.10 | 94.50 | 101.00 | 89.70 | 80.10 | 92.10 | 83.90 | 82.70 | 80.40 | 84.80 | 90.80 |

1/ Annual average price is the marketing year average -- December previous year through November current year.

2/ "Barrows and Gilts" and "Sows" combined.

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PRICES RECEIVED BY FARMERS FOR MILK AND MILK COWS: BY MONTH,
MINNESOTA, 1993-97 (continued)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual Average Price |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------------|
| All Milk | | | | | | | | | | | | | |
| <u>Dollars per Cwt.</u> | | | | | | | | | | | | | |
| 1993 | 11.94 | 11.77 | 12.05 | 13.15 | 13.40 | 12.95 | 12.33 | 12.11 | 12.94 | 13.62 | 13.87 | 13.64 | 12.80 |
| 1994 | 13.52 | 13.48 | 13.75 | 13.81 | 12.35 | 12.09 | 12.21 | 12.59 | 12.96 | 13.18 | 12.84 | 12.45 | 12.93 |
| 1995 | 12.36 | 12.64 | 12.62 | 12.01 | 11.90 | 11.96 | 11.84 | 12.21 | 12.99 | 13.84 | 14.40 | 14.25 | 12.72 |
| 1996 | 13.98 | 13.76 | 13.83 | 14.12 | 14.67 | 14.80 | 15.38 | 16.04 | 16.56 | 15.47 | 13.70 | 13.11 | 14.60 |
| 1997 | 13.16 | 13.46 | 13.47 | 12.64 | 12.00 | 11.80 | 11.85 | 12.98 | 13.57 | 14.21 | 14.77 | 14.90 | 13.19 |
| Fluid Market Milk | | | | | | | | | | | | | |
| <u>Dollars per Cwt.</u> | | | | | | | | | | | | | |
| 1993 | 12.11 | 11.93 | 12.21 | 13.31 | 13.55 | 13.13 | 12.52 | 12.29 | 13.08 | 13.77 | 14.03 | 13.80 | 12.96 |
| 1994 | 13.68 | 13.64 | 13.90 | 13.95 | 12.49 | 12.26 | 12.36 | 12.74 | 13.10 | 13.31 | 12.97 | 12.59 | 13.08 |
| 1995 | 12.49 | 12.77 | 12.74 | 12.14 | 12.04 | 12.10 | 11.97 | 12.34 | 13.11 | 13.96 | 14.52 | 14.38 | 12.85 |
| 1996 | 14.13 | 13.89 | 13.97 | 14.24 | 14.79 | 14.92 | 15.51 | 16.17 | 16.69 | 15.61 | 13.85 | 13.25 | 14.73 |
| 1997 | 13.27 | 13.56 | 13.58 | 12.76 | 12.13 | 11.92 | 11.96 | 13.09 | 13.65 | 14.29 | 14.86 | 15.01 | 13.31 |
| Manufacturing Grade Milk | | | | | | | | | | | | | |
| <u>Dollars per Cwt.</u> | | | | | | | | | | | | | |
| 1993 | 10.93 | 10.78 | 11.11 | 12.19 | 12.50 | 11.94 | 11.21 | 11.01 | 12.02 | 12.56 | 12.71 | 12.46 | 11.75 |
| 1994 | 12.32 | 12.33 | 12.63 | 12.77 | 11.36 | 10.95 | 11.12 | 11.51 | 11.91 | 12.17 | 11.77 | 11.28 | 11.84 |
| 1995 | 11.24 | 11.55 | 11.56 | 10.93 | 10.79 | 10.93 | 10.77 | 11.11 | 11.99 | 12.78 | 13.22 | 13.02 | 11.58 |
| 1996 | 12.67 | 12.60 | 12.58 | 13.06 | 13.68 | 13.76 | 14.25 | 14.86 | 15.38 | 14.09 | 12.04 | 11.64 | 13.39 |
| 1997 | 12.00 | 12.38 | 12.32 | 11.36 | 10.69 | 10.60 | 10.72 | 11.85 | 12.62 | 13.20 | 13.59 | 13.55 | 11.95 |
| Milk Cows 1/ | | | | | | | | | | | | | |
| <u>Dollars per Head</u> | | | | | | | | | | | | | |
| 1993 | 1,070 | -- | -- | 1,100 | -- | -- | 1,110 | -- | -- | 1,100 | -- | -- | 1,100 |
| 1994 | 1,120 | -- | -- | 1,130 | -- | -- | 1,110 | -- | -- | 1,090 | -- | -- | 1,110 |
| 1995 | 1,060 | -- | -- | 1,090 | -- | -- | 1,070 | -- | -- | 1,020 | -- | -- | 1,060 |
| 1996 | 980 | -- | -- | 1,000 | -- | -- | 1,020 | -- | -- | 1,060 | -- | -- | 1,020 |
| 1997 | 1,010 | -- | -- | 1,010 | -- | -- | 1,030 | -- | -- | 1,030 | -- | -- | 1,020 |

1/ Milk cows sold for dairy herd replacement only.

--continued



PRICES RECEIVED BY FARMERS FOR POULTRY: BY MONTH, MINNESOTA, 1993-97 (continued)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual Average Price |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------------|
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------------|

Turkeys

| | <u>Cents per Pound Live Weight</u> | | | | | | | | | | | | |
|------|------------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|
| 1993 | 35 | 36 | 37 | 37 | 36 | 35 | 34 | 35 | 35 | 35 | 36 | 35 | 35 |
| 1994 | 37 | 38 | 39 | 39 | 37 | 37 | 35 | 34 | 34 | 36 | 36 | 33 | 36 |
| 1995 | 34 | 35 | 35 | 35 | 32 | 34 | 34 | 34 | 34 | 35 | 36 | 37 | 35 |
| 1996 | 40 | 41 | 43 | 44 | 46 | 46 | 48 | 47 | 47 | 47 | 45 | 42 | 45 |
| 1997 | 41 | 38 | 41 | 40 | 41 | 41 | 40 | 39 | 39 | 39 | 38 | 36 | 39 |

Table Market Eggs 1/

| | Cents per Dozen | | | | | | | | | | | | |
|------|-----------------|----|----|----|----|----|----|----|----|----|----|----|----|
| 1993 | 44 | 40 | 54 | 48 | 40 | 46 | 39 | 43 | 35 | 40 | 44 | 40 | 43 |
| 1994 | 36 | 42 | 42 | 37 | 32 | 34 | 36 | 36 | 36 | 31 | 35 | 37 | 36 |
| 1995 | 33 | 32 | 33 | 34 | 29 | 32 | 40 | 42 | 47 | 45 | 57 | 60 | 38 |
| 1996 | 61 | 52 | 56 | 54 | 50 | 53 | 52 | 57 | 59 | 53 | 63 | 75 | 56 |
| 1997 | 58 | 58 | 55 | 48 | 45 | 42 | 45 | 46 | 50 | 48 | 65 | 60 | 53 |

1/ Table market eggs include eggs sold retail by the producers but exclude hatching eggs. The annual average price is the marketing year average - December previous year through November current year.

PRICES PAID BY FARMERS FOR FEEDER PIGS: BY QUARTER, MINNESOTA, 1993-97

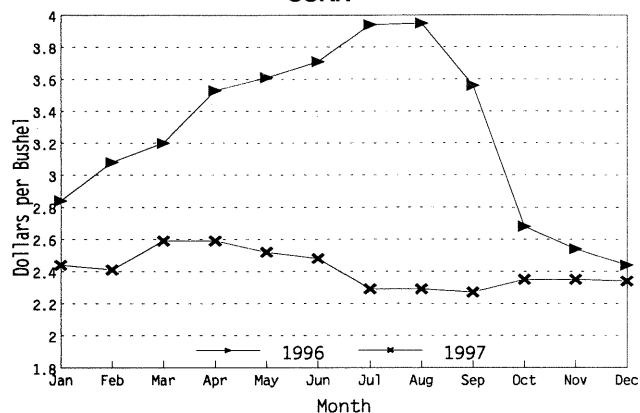
| Year | Nov 1/ | Feb | May | Aug |
|------|-------------------------|--------|--------|--------|
| | <u>Dollars per Cwt.</u> | | | |
| 1993 | 68.50 | 92.00 | 104.00 | 88.50 |
| 1994 | 84.50 | 92.00 | 91.00 | 71.90 |
| 1995 | 52.00 | 82.50 | 76.00 | 76.00 |
| 1996 | 78.50 | 76.50 | 93.00 | 97.00 |
| 1997 | 108.00 | 122.00 | 131.00 | 110.00 |

1/ November previous year.

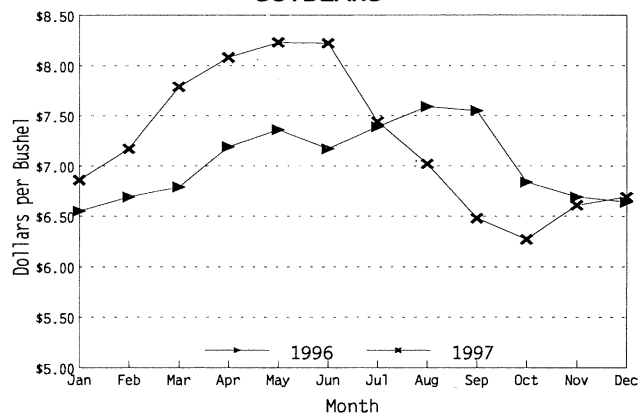


MINNESOTA PRICES RECEIVED BY FARMERS

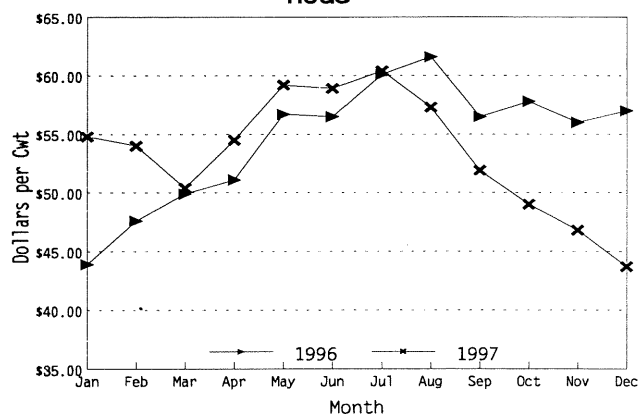
CORN



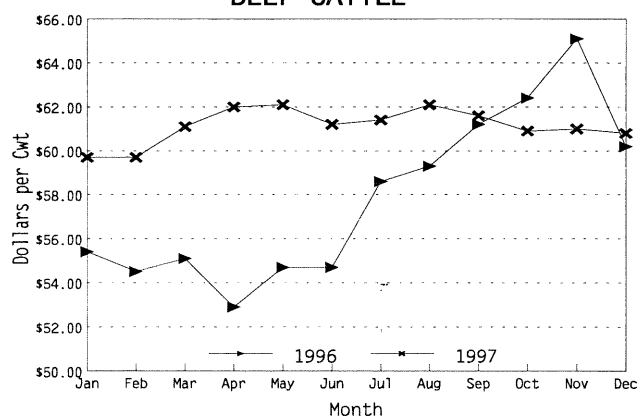
SOYBEANS



HOGS

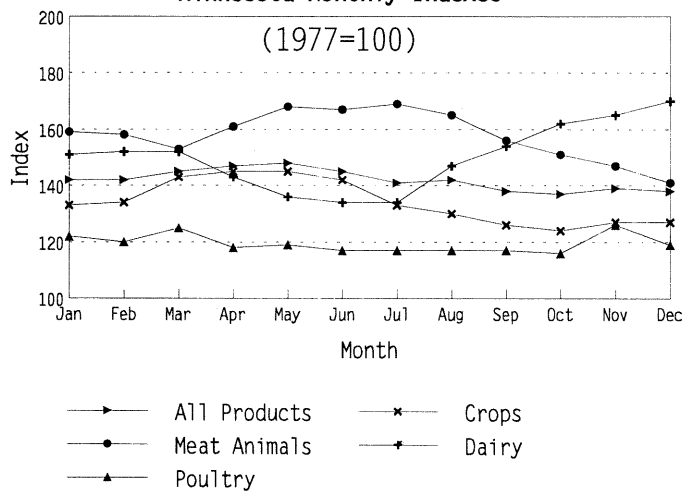


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MINNESOTA AGRICULTURAL STATISTICS SERVICE

a field office of USDA's National Agricultural Statistics Service
in cooperation with the Minnesota State Department of Agriculture



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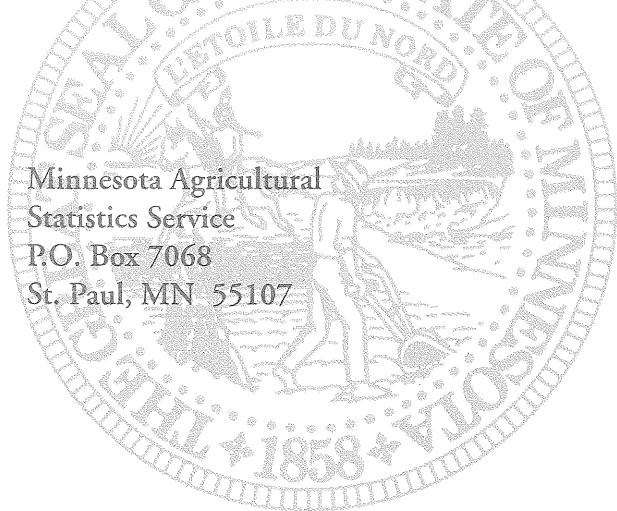
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