
SMALL GRAINS

**1980 Annual Summary and
1981 Crop Winter Wheat
and Rye Seedings**



**Crop
Reporting
Board**

**Economics and
Statistics Service**

**U.S. Department
of Agriculture
Washington, D.C.
20250**

**December 23, 1980
CrPr 2-2 (80)**

ACREAGE, YIELD, AND PRODUCTION, UNITED STATES--ANNUAL
(DOMESTIC UNITS)

| CROP AND UNIT | AREA HARVESTED | | | YIELD PER ACRE | | | PRODUCTION | | |
|----------------|----------------|---------|---------|----------------|-------|-------|------------|-----------|-----------|
| | 1978 | 1979 | 1980 | 1978 | 1979 | 1980 | 1978 | 1979 | 1980 |
| | 1,000 ACRES | | | | | | 1,000 | | |
| OATS BU | 11,126 | 9,679 | 8,640 | 52.3 | 54.4 | 53.0 | 581,657 | 526,551 | 457,593 |
| BARLEY " | 9,248 | 7,522 | 7,233 | 49.2 | 50.9 | 49.6 | 454,759 | 382,798 | 358,544 |
| ALL WHEAT " | 56,495 | 62,454 | 70,853 | 31.4 | 34.2 | 33.4 | 1,775,524 | 2,134,060 | 2,369,666 |
| WINTER " | 38,491 | 43,427 | 51,374 | 31.8 | 36.9 | 36.8 | 1,222,446 | 1,601,234 | 1,891,251 |
| DURUM " | 4,024 | 3,932 | 4,840 | 33.1 | 27.1 | 22.4 | 133,328 | 106,654 | 108,395 |
| OTHER SPRING " | 13,980 | 15,095 | 14,639 | 30.0 | 28.2 | 25.3 | 419,750 | 426,172 | 370,020 |
| RYE " | 926 | 869 | 664 | 26.0 | 25.8 | 24.5 | 24,065 | 22,389 | 16,265 |
| RICE CWT 1/ | 2,970.0 | 2,869.0 | 3,295.0 | 4,484 | 4,599 | 4,403 | 133,170 | 131,947 | 145,063 |

1/ YIELD IN POUNDS.

ACREAGE, YIELD, AND PRODUCTION, UNITED STATES--ANNUAL
(METRIC UNITS)

| CROP | AREA HARVESTED | | | YIELD PER HECTARE | | | PRODUCTION | | |
|--------------|----------------|------------|------------|-------------------|------|------|-------------|------------|------------|
| | 1978 | 1979 | 1980 | 1978 | 1979 | 1980 | 1978 | 1979 | 1980 |
| | HECTARES | | | | | | METRIC TONS | | |
| OATS | 4 502 580 | 3 916 990 | 3 496 520 | 1.88 | 1.95 | 1.90 | 8 442 730 | 7 642 870 | 6 641 940 |
| BARLEY | 3 742 570 | 3 044 080 | 2 927 120 | 2.65 | 2.74 | 2.67 | 9 901 210 | 8 334 440 | 7 806 370 |
| ALL WHEAT | 22 862 960 | 25 274 510 | 28 673 500 | 2.11 | 2.30 | 2.25 | 48 321 840 | 58 079 600 | 64 491 740 |
| WINTER | 15 576 920 | 17 574 470 | 20 790 540 | 2.14 | 2.48 | 2.48 | 33 269 530 | 43 578 450 | 51 471 420 |
| DURUM | 1 628 470 | 1 591 240 | 1 958 700 | 2.23 | 1.82 | 1.51 | 3 628 590 | 2 902 650 | 2 905 030 |
| OTHER SPRING | 5 657 570 | 6 108 800 | 5 924 260 | 2.02 | 1.90 | 1.70 | 11 423 720 | 11 598 500 | 10 070 290 |
| RYE | 374 740 | 351 680 | 268 710 | 1.63 | 1.62 | 1.54 | 611 280 | 568 710 | 413 150 |
| RICE | 1 201 930 | 1 161 060 | 1 333 450 | 5.03 | 5.15 | 4.93 | 6 040 490 | 5 985 020 | 6 579 950 |

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UNITED STATES CROP SUMMARY
(DOMESTIC UNITS)

| ITEM | CROP OF | | |
|------------------------------------|-----------|-----------|--------------------|
| | 1979 | 1980 | 1981 |
| WINTER WHEAT: | | | |
| AREA SEEDED (1,000 ACRES) | 51,787 | 57,425 | 63,939 |
| YIELD PER SEEDED ACRE (Bu) | 36.9 | 36.8 | 1/30.9 |
| PRODUCTION (1,000 BU) | 1,601,234 | 1,891,251 | <u>1/1,977,079</u> |
| AREA SEEDED AS % OF PREVIOUS YEAR | 108.9 | 110.9 | 111.3 |
| AREA FOR GRAIN AS % OF AREA SEEDED | 83.9 | 89.5 | 87.7 |
| RYE: | | | |
| AREA SEEDED (1,000 ACRES) | 2,921 | 2,527 | 2,607 |
| AREA SEEDED AS % OF PREVIOUS YEAR | 102.0 | 86.5 | 103.2 |

1/ INDICATED DEC 1, 1980.

UNITED STATES CROP SUMMARY
(METRIC UNITS)

| ITEM | CROP OF | | |
|--|------------|------------|---------------------|
| | 1979 | 1980 | 1981 |
| WINTER WHEAT: | | | |
| AREA SEEDED (HECTARES) | 20 957 680 | 23 239 320 | 25 875 470 |
| YIELD PER SEEDED HECTARE (METRIC TONS) | 2.08 | 2.21 | 1/2.08 |
| PRODUCTION (METRIC TONS) | 43 578 450 | 51 471 420 | <u>1/53 807 270</u> |
| RYE: | | | |
| AREA SEEDED (HECTARES) | 1 182 100 | 1 022 650 | 1 055 030 |

1/ INDICATED DEC 1, 1980.

OATS: Production of oats in 1980 is estimated at 458 million bushels (6.64 million metric tons), 13 percent less than the 1979 crop of 527 million bushels (7.64 million metric tons) and 21 percent less than the 1978 crop. This is the lowest production since 1881. Growers harvested 8.64 million acres (3.50 million hectares) for grain, 11 percent below a year earlier and the smallest acreage harvested since 1867. Yield per harvested acre averaged 53.0 bushels compared with 54.4 bushels a year ago. Acres abandoned and utilized for purposes other than grain accounted for 35.3 percent of the planted acres compared with 30.7 percent in 1979.

Most of the acreage on the northern Plains was seeded under dry conditions resulting in poor seed germination and uneven stands. The prolonged hot, dry weather during the growing season hastened maturity, and hindered normal grain development. Poor oat yield prospects coupled with drought-reduced hay production and pasture resulted in additional oat acreage utilized as forage or hay rather than harvested for grain. Harvest moved ahead of schedule during July and early August until mid-August rains and wet field conditions slowed combining and caused some lodging in the Dakotas and Lakes States.

BARLEY: Production of barley in 1980 totaled 359 million bushels (7.81 million metric tons), 6 percent less than 1979 and 21 percent below 1978. The smaller crop in 1980 resulted from a reduction in harvested acreage and lower yields in some of the major producing States.

Acreage harvested for grain is estimated at 7.23 million acres (2.93 million hectares), 4 percent less than 1979 and 22 percent below the 1978 harvested acreage. Area harvested in 1980 was the smallest since 1934. Yield per harvested acre averaged 49.6 bushels, 1.3 bushels below last year's record high. Extremely hot and dry weather in Minnesota and the Dakotas reduced yields but this was partially offset by record high yields in California, Oregon, Washington, Utah, and Idaho.

Spring planting in the Dakotas, Minnesota, and Montana got off to a good start with dry, warm weather conditions. However, lack of rainfall following planting resulted in spotty emergence and greater than normal acreage abandonment as well as reduced yields. In the Pacific Northwest adequate moisture and good growing conditions resulted in record yields.

Harvest operations in the upper North Central States got underway much earlier than normal because of extreme heat which prematurely advanced ripening of the crop. Weather during late July was excellent for harvesting the early maturing grain but combining of some of the later fields was hampered by rainfall in mid-August. In the Northwest, harvest progressed rapidly under the mostly dry weather conditions of late July and early August. Rain in mid-August interrupted combining but by month's end, harvest was near completion and an excellent crop had been realized in Washington, Oregon, and Idaho. In California, harvest was virtually complete by August 1 and good yields were reported.

ALL WHEAT: Growers harvested 2.37 billion bushels (64.5 million metric tons) of wheat in 1980, 11 percent more than last year's 2.13 billion bushels (58.1 million metric tons) and the largest crop of record. The crop was harvested from 70.9 million acres (28.7 million hectares), 13 percent more than a year ago. Nationally, yields averaged 33.4 bushels per acre, down 0.8 bushel from last year's record high.

WINTER WHEAT: Production of 1980 crop winter wheat totaled 1.89 billion bushels (51.5 million metric tons), 18 percent more than last year's 1.60 billion bushels (43.6 million metric tons) and the largest crop of record. Growers harvested 51.4 million acres (20.8 million hectares) for grain, 18 percent more than last year. Nationally, the yield of 36.8 bushels per acre was down 0.1 bushel from the record yield set in 1979.

Growers seeded 57.4 million acres (23.2 million hectares) for the 1980 crop, 11 percent more than in 1979. Planting of the 1980 crop got underway in late August 1979 and had reached the half way mark by late September. Growers in the Northern Great Plains were able to complete planting earlier than in recent years. September rainfall was very sparse in most of Texas, Oklahoma, and Kansas causing farmers to delay planting or to plant in dry soil. Dry soils also slowed seedings in the Pacific Northwest early in October but rains late in the month improved conditions. Wet soils curbed early October seeding in most of the Corn Belt. Planting progress in Georgia was ahead of average and far ahead of the 1978 dry fall seeding. Plantings in the U.S. were near completion by mid-November except in California. In Kansas, some farmers had to reseed because of damage from heavy rains.

The Nation's major production areas lay under a mantle of snow most of February which protected the crop from severe storms and temperatures as much as 27 degrees below normal on the Great Plains. The snow cover reached south into Oklahoma and all of the Corn Belt. Wheat in the Corn Belt was still being held in dormancy at mid-March by below normal temperatures. Plenty of soil moisture existed in Kansas for spring growth at the end of March but low temperatures limited response.

Southwestern stands were heading from California to parts of Texas and in the joint stage in other Southern areas by mid-March. By early April, the crop was breaking dormancy as far north as Montana. Wheat maturity advanced to the heading stage in the northern States by June 1. Above normal precipitation in the northwest reduced earlier expectations of damage to winter wheat from volcanic ash and provided ample soil moisture for plant development. The abrasive nature of the volcanic ash did not present a significant harvesting problem nor reduce the acreage harvested. Drought conditions in Montana, North Dakota and South Dakota resulted in a decrease from earlier expectations in acreage harvested in those States. Harvesting was active in Kansas and just getting underway in Nebraska and Montana by July 1. Hot, dry weather in most of the wheat producing areas allowed harvest to progress more rapidly than last year.

OTHER SPRING WHEAT: The Nation's output of other spring wheat in 1980 is estimated at 370 million bushels (10.1 million metric tons), down 13 percent from last year. Harvested acres totaled 14.6 million acres (5.92 million hectares) compared with 15.1 million acres (6.11 million hectares) harvested a year ago. The average yield per acre for 1980, at 25.3 bushels, compares with 28.2 bushels per acre harvested in 1979.

Area seeded amounted to 17.5 million acres (7.07 million hectares), 12 percent more than the 15.6 million acres (6.31 million hectares) seeded last year. Planting in the major producing States had reached 90 percent by mid-May, well ahead of last year.

Drought conditions had developed in the northern Plains by the beginning of June. Small grain stands in the northern Plains and parts of Montana were thin and uneven and some fields were abandoned. Spring wheat heading in the major producing States by mid-July had advanced well ahead of last year. Harvests got underway much earlier than normal because extreme heat prematurely advanced the ripening of small grains. In North Dakota, wet conditions near the end of August delayed harvest and increased sprout damage for spring wheat in the swath. Near ideal conditions in the Northwest permitted rapid progress as the wheat harvest neared completion in early October.

DURUM WHEAT: Producers harvested 108 million bushels (2.95 million metric tons) of durum wheat during 1980, 2 percent more than last year's production of 107 million bushels (2.90 million metric tons). A total of 4.84 million acres (1.96 million hectares) were harvested this season compared with 3.93 million acres (1.59 million hectares) a year ago. The 1980 yield of 22.4 bushels per acre is down 4.7 bushels from last year and 10.7 bushels below the 1978 record yield of 33.1 bushels.

Growers seeded 5.53 million acres (2.24 million hectares), 37 percent more than the 4.04 million acres (1.64 million hectares) seeded last year. In late May, emergence was spotty in the northern Plains where rain was needed. Continued hot weather and dry winds through June depleted soil moisture in North Dakota and heads were not filling in some fields although crop development was well ahead of normal. Hot, dry weather also hurt crop prospects in Montana, South Dakota and Minnesota. Durum harvest was complete in California and Arizona by early July. The major durum producing area in North Dakota received substantial rainfall during the first week of July. Wet conditions in North Dakota after harvest began increased sprout damage in durum wheat that was ripe and standing as well as grain in the swath.

RYE: U.S. farmers produced 16.3 million bushels (413 thousand metric tons) of rye in 1980, 27 percent less than last year's 22.4 million bushels (569 thousand metric tons). Growers harvested 664 thousand acres (269 thousand hectares) this year compared with 869 thousand acres (352 thousand hectares) last year. Yields in 1980 averaged 24.5 bushels per acre nationally, down 1.3 bushels from 1979.

Farmers planted 2.53 million acres (1.02 million hectares) during the fall of 1979 and spring of 1980 for the 1980 crop, 13 percent less than the previous year. Fall rye seeding in North Dakota made good progress and was nearly complete by the end of September. Planting in the central and southern Plains States was delayed by dry weather and some farmers dusted in the seed. Conditions in Georgia were considerably better than in the fall of 1978 when soils were extremely dry.

In North Dakota, rye over-wintered under severely dry conditions which led to significant winterkill and early spring abandonment.

By mid-April, the South Dakota rye crop was in fair condition and turning green but was in need of moisture. South Dakota growers were 95 percent complete with the rye harvest by the first week of August which was well ahead of early years. In the Southeast, moisture was adequate in the spring and harvesting progress was normal.

RICE: Production of rice in 1980 is estimated at a record high 145 million hundredweight (6.58 million metric tons), 10 percent more than the 132 million hundredweight (5.99 million metric tons) produced in 1979. Growers harvested a record high 3.30 million acres (1.33 million hectares), 15 percent more than the 2.87 million acres (1.16 million hectares) harvested last year. Yields averaged 4403 pounds per acre this year. Last year's average was 4599 pounds per acre.

Long grain rice production at 88.0 million hundredweight (3.99 million metric tons) was 9 percent more than last year. Growers produced 48.8 million hundredweight (2.21 million metric tons) of medium grain rice, 21 percent more than a year ago. Short grain rice production at 8.32 million hundredweight (377 thousand metric tons) was 23 percent less than production in 1979.

Mississippi growers were delayed in planting by a wet spring. Planting was completed by mid-June--one to two weeks later than normal. California rice producers had virtually completed planting by June 1. Hot, dry summer weather through the southern States caused some difficulty in flooding fields and maintaining water levels. California growers were faced with weed problems throughout the growing season because of a cool spring which helped weeds to get started faster than rice. California harvest started later in September than normal, but progressed at a record pace because of good weather conditions and increased dryer capacity. Mississippi had good weather with harvest beginning in early September and generally complete by early November.

AREA PLANTED 1978-80

| STATE | OATS 1/ | | | BARLEY 1/ | | | ALL WHEAT | | |
|-------|-------------|--------|--------|-----------|-------|-------|-----------|--------|--------|
| | 1978 | 1979 | 1980 | 1978 | 1979 | 1980 | 1978 | 1979 | 1980 |
| | 1,000 ACRES | | | | | | | | |
| ALA | 92 | 90 | 90 | | | | 180 | 220 | 325 |
| ARIZ | | | | 42 | 50 | 60 | 145 | 135 | 225 |
| ARK | 80 | 80 | 56 | | | | 400 | 530 | 900 |
| CALIF | 380 | 350 | 350 | 1,100 | 900 | 800 | 715 | 840 | 1,235 |
| COLO | 121 | 115 | 100 | 260 | 295 | 265 | 3,038 | 3,245 | 3,550 |
| DEL | | | | 33 | 33 | 33 | 24 | 22 | 33 |
| FLA | | | | | | | 17 | 3/ | |
| GA | 205 | 160 | 150 | | | | 160 | 210 | 660 |
| IDAHO | 65 | 63 | 62 | 1,040 | 960 | 900 | 1,435 | 1,615 | 1,635 |
| ILL | 420 | 345 | 280 | 10 | 8 | 7 | 1,000 | 1,310 | 1,600 |
| IND | 180 | 140 | 120 | | | | 820 | 1,000 | 1,150 |
| IOWA | 1,950 | 1,350 | 1,300 | | | | 60 | 70 | 100 |
| KANS | 150 | 135 | 175 | 66 | 66 | 69 | 11,300 | 12,100 | 13,000 |
| KY | 36 | 36 | 29 | 37 | 32 | 33 | 260 | 380 | 450 |
| LA | | | | | | | 29 | 38 | 100 |
| MAINE | 46 | 45 | 46 | | | | | | |
| MD | 23 | 22 | 22 | 105 | 100 | 91 | 90 | 97 | 100 |
| MICH | 440 | 330 | 355 | 23 | 21 | 23 | 430 | 750 | 820 |
| MINN | 2,150 | 1,650 | 1,650 | 1,070 | 780 | 900 | 2,850 | 2,640 | 3,615 |
| MISS | | | | | | | 100 | 160 | 300 |
| MO | 73 | 90 | 100 | | | | 960 | 1,780 | 2,200 |
| MONT | 356 | 321 | 220 | 1,420 | 1,100 | 1,180 | 5,100 | 5,985 | 5,970 |
| NEBR | 600 | 525 | 510 | 33 | 30 | 29 | 2,900 | 3,000 | 3,100 |
| NEV | | | | 30 | 30 | 31 | 24 | 26 | 32 |
| N J | 9 | 8 | 6 | 30 | 28 | 27 | 36 | 51 | 52 |
| N MEX | | | | 33 | 36 | 43 | 559 | 576 | 600 |
| N Y | 350 | 330 | 320 | 11 | 12 | 12 | 86 | 170 | 160 |
| N C | 185 | 180 | 160 | 72 | 73 | 69 | 220 | 235 | 325 |
| N DAK | 1,320 | 1,050 | 1,050 | 2,500 | 1,700 | 1,850 | 9,760 | 9,900 | 11,735 |
| OHIO | 370 | 320 | 330 | 11 | 9 | 9 | 1,150 | 1,350 | 1,400 |
| OKLA | 260 | 230 | 220 | 100 | 80 | 75 | 7,000 | 7,000 | 7,500 |
| OREG | 125 | 115 | 125 | 225 | 180 | 170 | 1,285 | 1,450 | 1,410 |
| PA | 360 | 360 | 360 | 105 | 95 | 80 | 225 | 245 | 260 |
| S C | 120 | 110 | 83 | 27 | 26 | 26 | 80 | 110 | 205 |
| S DAK | 2,570 | 2,300 | 2,200 | 600 | 560 | 535 | 3,575 | 3,455 | 4,050 |
| TENN | 58 | 51 | 45 | 9 | 9 | 7 | 260 | 340 | 430 |
| TEX | 1,800 | 1,700 | 1,480 | 110 | 100 | 70 | 5,700 | 5,800 | 6,800 |
| UTAH | 27 | 26 | 26 | 165 | 160 | 162 | 310 | 314 | 292 |
| VA | 65 | 63 | 50 | 123 | 117 | 105 | 176 | 215 | 317 |
| WASH | 72 | 69 | 75 | 400 | 330 | 440 | 3,120 | 3,650 | 3,320 |
| W VA | 18 | 17 | 15 | 11 | 11 | 10 | 11 | 12 | 11 |
| WIS | 1,250 | 1,100 | 1,120 | 28 | 25 | 27 | 48 | 57 | 119 |
| WYO | 81 | 81 | 80 | 160 | 154 | 145 | 351 | 341 | 344 |
| U S | 16,407 | 13,957 | 13,360 | 9,989 | 8,110 | 8,283 | 65,989 | 71,424 | 80,430 |

SEE FOOTNOTES ON PAGE B-3.

CONTINUED

AREA PLANTED 1978-80 CONTINUED

| STATE | WINTER WHEAT 2/ | | | DURUM WHEAT | | | OTHER SPRING WHEAT | | |
|-------|-----------------|--------|--------|-------------|-------|-------|--------------------|--------|--------|
| | 1978 | 1979 | 1980 | 1978 | 1979 | 1980 | 1978 | 1979 | 1980 |
| | 1,000 ACRES | | | | | | | | |
| ALA | 180 | 220 | 325 | | | | | | |
| ARIZ | 50 | 60 | 65 | 95 | 75 | 160 | | | |
| ARK | 400 | 530 | 900 | | | | | | |
| CALIF | 595 | 793 | 1,130 | 120 | 47 | 105 | | | |
| COLO | 3,000 | 3,200 | 3,500 | | | | 38 | 45 | 50 |
| DEL | 24 | 22 | 33 | | | | | | |
| FLA | 17 | 3/ | | | | | | | |
| GA | 160 | 210 | 660 | | | | | | |
| IDAHO | 875 | 980 | 980 | | | | 560 | 635 | 655 |
| ILL | 1,000 | 1,310 | 1,600 | | | | | | |
| IND | 820 | 1,000 | 1,150 | | | | | | |
| IOWA | 60 | 70 | 100 | | | | | | |
| KANS | 11,300 | 12,100 | 13,000 | | | | | | |
| KY | 260 | 380 | 450 | | | | | | |
| LA | 29 | 38 | 100 | | | | | | |
| MD | 90 | 97 | 100 | | | | | | |
| MICH | 430 | 750 | 820 | | | | | | |
| MINN | 70 | 60 | 75 | 100 | 80 | 140 | 2,680 | 2,500 | 3,400 |
| MISS | 100 | 160 | 300 | | | | | | |
| MO | 960 | 1,780 | 2,200 | | | | | | |
| MONT | 2,900 | 3,000 | 2,600 | 300 | 335 | 470 | 1,900 | 2,650 | 2,900 |
| NEBR | 2,900 | 3,000 | 3,100 | | | | | | |
| NEV | 11 | 12 | 13 | | | | 13 | 14 | 19 |
| N J | 36 | 51 | 52 | | | | | | |
| N MEX | 559 | 576 | 600 | | | | | | |
| N Y | 86 | 170 | 160 | | | | | | |
| N C | 220 | 235 | 325 | | | | | | |
| N DAK | 160 | 170 | 135 | 3,300 | 3,330 | 4,400 | 6,300 | 6,400 | 7,200 |
| OHIO | 1,150 | 1,350 | 1,400 | | | | | | |
| OKLA | 7,000 | 7,000 | 7,500 | | | | | | |
| OREG | 1,150 | 1,180 | 1,250 | | | | 135 | 270 | 160 |
| PA | 225 | 245 | 260 | | | | | | |
| S C | 80 | 110 | 205 | | | | | | |
| S DAK | 1,080 | 1,080 | 1,200 | 195 | 175 | 250 | 2,300 | 2,200 | 2,600 |
| TENN | 260 | 340 | 430 | | | | | | |
| TEX | 5,700 | 5,800 | 6,800 | | | | | | |
| UTAH | 263 | 271 | 260 | | | | 47 | 43 | 32 |
| VA | 176 | 215 | 317 | | | | | | |
| WASH | 2,800 | 2,850 | 2,900 | | | | 320 | 800 | 420 |
| W VA | 11 | 12 | 11 | | | | | | |
| WIS | 35 | 40 | 94 | | | | 13 | 17 | 25 |
| WYO | 327 | 320 | 325 | | | | 24 | 21 | 19 |
| U S | 47,549 | 51,787 | 57,425 | 4,110 | 4,042 | 5,525 | 14,330 | 15,595 | 17,480 |

SEE FOOTNOTES ON PAGE B-3.

CONTINUED

AREA PLANTED 1978-80 CONTINUED

| STATE | RYE 2/ | | | RICE | | |
|-------|-------------|-------|-------|---------|---------|---------|
| | 1978 | 1979 | 1980 | 1978 | 1979 | 1980 |
| | 1,000 ACRES | | | | | |
| ARK | | | | 1,100.0 | 1,030.0 | 1,300.0 |
| CALIF | | | | 493.0 | 525.0 | 552.0 |
| COLO | 30 | 42 | 29 | | | |
| DEL | 35 | 40 | 30 | | | |
| GA | 490 | 510 | 450 | | | |
| ILL | 65 | 70 | 70 | | | |
| IND | 33 | 40 | 35 | | | |
| IOWA | 19 | 22 | 19 | | | |
| KANS | 90 | 85 | 60 | | | |
| KY | 59 | 66 | 54 | | | |
| LA | | | | 590.0 | 530.0 | 615.0 |
| MD | 50 | 50 | 60 | | | |
| MICH | 130 | 135 | 130 | | | |
| MINN | 115 | 100 | 85 | | | |
| MISS | | | | 220.0 | 210.0 | 250.0 |
| MO | 47 | 55 | 40 | 30.0 | 35.0 | 56.0 |
| NEBR | 70 | 70 | 55 | | | |
| N J | 76 | 79 | 82 | | | |
| N Y | 105 | 107 | 98 | | | |
| N C | 135 | 145 | 140 | | | |
| N DAK | 200 | 170 | 100 | | | |
| OHIO | 70 | 65 | 80 | | | |
| OKLA | 190 | 200 | 200 | | | |
| OREG | 34 | 31 | 35 | | | |
| PA | 65 | 65 | 55 | | | |
| S C | 115 | 130 | 126 | | | |
| S DAK | 220 | 250 | 150 | | | |
| TENN | 24 | 3/ | | | | |
| TEX | 150 | 170 | 150 | 560.0 | 560.0 | 590.0 |
| VA | 180 | 180 | 150 | | | |
| WASH | 23 | 3/ | | | | |
| WIS | 40 | 40 | 40 | | | |
| WYO | 5 | 4 | 4 | | | |
| U S | 2,865 | 2,921 | 2,527 | 2,993.0 | 2,890.0 | 3,363.0 |

- 1/ INCLUDES AREA PLANTED IN PRECEDING FALL.
 2/ AREA PLANTED IN PRECEDING FALL.
 3/ ESTIMATES DISCONTINUED AFTER 1978 CROP.

OATS

| STATE | AREA HARVESTED | | | YIELD | | | PRODUCTION | | |
|-------|----------------|-------|-------|----------|------|------|----------------|---------|---------|
| | 1978 | 1979 | 1980 | 1978 | 1979 | 1980 | 1978 | 1979 | 1980 |
| | 1,000 ACRES | | | BUSHELLS | | | 1,000 BUSHELLS | | |
| ALA | 32 | 28 | 30 | 42.0 | 43.0 | 42.0 | 1,344 | 1,204 | 1,260 |
| ARK | 55 | 34 | 33 | 73.0 | 65.0 | 63.0 | 4,015 | 2,210 | 2,079 |
| CALIF | 80 | 75 | 70 | 48.0 | 55.0 | 62.0 | 3,840 | 4,125 | 4,340 |
| COLD | 40 | 50 | 33 | 47.0 | 53.0 | 51.0 | 1,880 | 2,650 | 1,683 |
| GA | 100 | 70 | 65 | 53.0 | 54.0 | 53.0 | 5,300 | 3,780 | 3,445 |
| IDAHO | 49 | 44 | 46 | 64.0 | 52.0 | 65.0 | 3,136 | 2,288 | 2,990 |
| ILL | 275 | 260 | 230 | 56.0 | 60.0 | 61.0 | 15,400 | 15,600 | 14,030 |
| IND | 135 | 105 | 90 | 54.0 | 61.0 | 65.0 | 7,290 | 6,405 | 5,850 |
| IDWA | 1,050 | 1,000 | 1,000 | 58.0 | 63.0 | 62.0 | 60,900 | 63,000 | 62,000 |
| KANS | 105 | 85 | 120 | 39.0 | 44.0 | 38.0 | 4,095 | 3,740 | 4,560 |
| KY | 7 | 8 | 6 | 42.0 | 41.0 | 40.0 | 294 | 328 | 240 |
| MAINE | 42 | 41 | 42 | 66.0 | 62.0 | 58.0 | 2,772 | 2,542 | 2,436 |
| MD | 19 | 17 | 19 | 53.0 | 55.0 | 59.0 | 1,007 | 935 | 1,121 |
| MICH | 410 | 310 | 335 | 57.0 | 61.0 | 60.0 | 23,370 | 18,910 | 20,100 |
| MINN | 1,830 | 1,490 | 1,450 | 54.0 | 57.0 | 57.0 | 98,820 | 84,930 | 82,650 |
| MO | 32 | 45 | 46 | 40.0 | 45.0 | 43.0 | 1,280 | 2,025 | 1,978 |
| MONT | 185 | 125 | 73 | 51.0 | 39.0 | 44.0 | 9,435 | 4,875 | 3,212 |
| NEBR | 450 | 400 | 370 | 47.0 | 53.0 | 41.0 | 21,150 | 21,200 | 15,170 |
| N J | 8 | 7 | 5 | 48.0 | 50.0 | 55.0 | 384 | 350 | 275 |
| N Y | 300 | 290 | 280 | 59.0 | 62.0 | 64.0 | 17,700 | 17,980 | 17,920 |
| N C | 95 | 95 | 75 | 57.0 | 57.0 | 52.0 | 5,415 | 5,415 | 3,900 |
| N DAK | 1,160 | 840 | 450 | 54.0 | 44.0 | 30.0 | 62,640 | 36,960 | 13,500 |
| OHIO | 340 | 290 | 290 | 61.0 | 70.0 | 67.0 | 20,740 | 20,300 | 19,430 |
| OKLA | 95 | 95 | 100 | 36.0 | 48.0 | 39.0 | 3,420 | 4,560 | 3,900 |
| OREG | 65 | 60 | 60 | 65.0 | 67.0 | 69.0 | 4,225 | 4,020 | 4,140 |
| PA | 340 | 335 | 340 | 53.0 | 55.0 | 56.0 | 18,020 | 18,425 | 19,040 |
| S C | 65 | 59 | 40 | 54.0 | 56.0 | 49.0 | 3,510 | 3,304 | 1,960 |
| S DAK | 2,060 | 1,888 | 1,500 | 46.5 | 50.0 | 44.0 | 95,790 | 94,400 | 66,000 |
| TENN | 15 | 16 | 12 | 45.0 | 41.0 | 46.0 | 675 | 656 | 552 |
| TEX | 430 | 400 | 340 | 32.0 | 42.0 | 37.0 | 13,760 | 16,800 | 12,580 |
| UTAH | 15 | 15 | 15 | 58.0 | 60.0 | 61.0 | 870 | 900 | 915 |
| VA | 24 | 25 | 20 | 45.0 | 49.0 | 45.0 | 1,080 | 1,225 | 900 |
| WASH | 30 | 33 | 30 | 58.0 | 53.0 | 62.0 | 1,740 | 1,749 | 1,860 |
| W VA | 12 | 12 | 11 | 42.0 | 51.0 | 49.0 | 504 | 612 | 539 |
| WIS | 1,120 | 980 | 963 | 56.0 | 57.0 | 61.0 | 62,720 | 55,860 | 58,743 |
| WYO | 56 | 52 | 51 | 56.0 | 44.0 | 45.0 | 3,136 | 2,288 | 2,295 |
| U S | 11,126 | 9,679 | 8,640 | 52.3 | 54.4 | 53.0 | 581,657 | 526,551 | 457,593 |

BARLEY

| STATE | AREA HARVESTED | | | YIELD | | | PRODUCTION | | |
|-------|----------------|-------|-------|--------|------|------|--------------|---------|---------|
| | 1978 | 1979 | 1980 | 1978 | 1979 | 1980 | 1978 | 1979 | 1980 |
| | 1,000 ACRES | | | BUSHEL | | | 1,000 BUSHEL | | |
| ARIZ | 35 | 43 | 50 | 71.0 | 75.0 | 79.0 | 2,485 | 3,225 | 3,950 |
| CALIF | 950 | 790 | 712 | 48.0 | 60.0 | 62.0 | 45,600 | 47,400 | 44,144 |
| COLO | 230 | 275 | 245 | 62.0 | 68.0 | 65.0 | 14,260 | 18,700 | 15,925 |
| DEL | 24 | 25 | 25 | 44.0 | 45.0 | 49.0 | 1,056 | 1,125 | 1,225 |
| IDAHO | 1,020 | 930 | 880 | 62.0 | 59.0 | 67.0 | 63,240 | 54,870 | 58,960 |
| ILL | 7 | 7 | 6 | 36.0 | 47.0 | 43.0 | 252 | 329 | 258 |
| KANS | 55 | 52 | 59 | 42.0 | 44.0 | 41.0 | 2,310 | 2,288 | 2,419 |
| KY | 23 | 25 | 29 | 43.0 | 50.0 | 55.0 | 989 | 1,250 | 1,595 |
| MD | 78 | 78 | 70 | 46.0 | 49.0 | 52.0 | 3,588 | 3,822 | 3,640 |
| MICH | 22 | 20 | 21 | 47.0 | 47.0 | 53.0 | 1,034 | 940 | 1,113 |
| MINN | 1,050 | 770 | 815 | 49.5 | 53.0 | 42.5 | 51,975 | 40,810 | 34,638 |
| MONT | 1,300 | 1,040 | 1,050 | 43.0 | 39.0 | 42.0 | 55,900 | 40,560 | 44,100 |
| NEBR | 29 | 28 | 25 | 38.0 | 43.0 | 38.0 | 1,102 | 1,204 | 950 |
| NEV | 27 | 27 | 28 | 60.0 | 60.0 | 70.0 | 1,620 | 1,620 | 1,960 |
| N J | 15 | 14 | 15 | 46.0 | 51.0 | 53.0 | 690 | 714 | 795 |
| N MEX | 25 | 27 | 35 | 57.0 | 58.0 | 57.0 | 1,425 | 1,566 | 1,995 |
| N Y | 10 | 11 | 11 | 42.0 | 48.0 | 47.0 | 420 | 528 | 517 |
| N C | 61 | 64 | 60 | 52.0 | 51.0 | 48.0 | 3,172 | 3,264 | 2,880 |
| N DAK | 2,450 | 1,650 | 1,500 | 46.0 | 46.0 | 32.0 | 112,700 | 75,900 | 48,000 |
| OHIO | 10 | 9 | 8 | 48.0 | 52.0 | 52.0 | 480 | 468 | 416 |
| OKLA | 80 | 55 | 50 | 34.0 | 46.0 | 33.0 | 2,720 | 2,530 | 1,650 |
| OREG | 200 | 160 | 155 | 54.0 | 52.0 | 65.0 | 10,800 | 8,320 | 10,075 |
| PA | 95 | 85 | 75 | 47.0 | 47.0 | 50.0 | 4,465 | 3,995 | 3,750 |
| S C | 24 | 23 | 23 | 47.0 | 48.0 | 44.0 | 1,128 | 1,104 | 1,012 |
| S DAK | 565 | 520 | 420 | 37.0 | 40.0 | 33.0 | 20,905 | 20,800 | 13,860 |
| TENN | 5 | 5 | 4 | 34.0 | 46.0 | 42.0 | 170 | 230 | 168 |
| TEX | 40 | 50 | 36 | 27.0 | 46.0 | 30.0 | 1,080 | 2,300 | 1,080 |
| UTAH | 150 | 145 | 148 | 65.0 | 72.0 | 73.0 | 9,750 | 10,440 | 10,804 |
| VA | 101 | 100 | 90 | 50.0 | 52.0 | 51.0 | 5,050 | 5,200 | 4,590 |
| WASH | 380 | 315 | 420 | 61.0 | 54.0 | 75.0 | 23,180 | 17,010 | 31,500 |
| W VA | 10 | 10 | 9 | 44.0 | 41.0 | 44.0 | 440 | 410 | 396 |
| WIS | 27 | 24 | 26 | 49.0 | 49.0 | 59.0 | 1,323 | 1,176 | 1,534 |
| WYO | 150 | 145 | 133 | 63.0 | 60.0 | 65.0 | 9,450 | 8,700 | 8,645 |
| U S | 9,248 | 7,522 | 7,233 | 49.2 | 50.9 | 49.6 | 454,759 | 382,798 | 358,544 |

ALL WHEAT

| STATE | AREA HARVESTED | | | YIELD | | | PRODUCTION | | |
|---------|----------------|--------|--------|----------|------|------|----------------|-----------|-----------|
| | 1978 | 1979 | 1980 | 1978 | 1979 | 1980 | 1978 | 1979 | 1980 |
| | 1,000 ACRES | | | BUSHELLS | | | 1,000 BUSHELLS | | |
| ALA | 90 | 145 | 235 | 26.0 | 26.0 | 24.5 | 2,340 | 3,770 | 5,758 |
| ARIZ | 138 | 125 | 215 | 70.0 | 76.3 | 80.0 | 9,660 | 9,540 | 17,200 |
| ARK | 300 | 420 | 820 | 37.0 | 35.0 | 38.0 | 11,100 | 14,700 | 31,160 |
| CALIF | 665 | 800 | 1,150 | 64.2 | 70.6 | 74.3 | 42,725 | 56,450 | 85,500 |
| COLO | 2,523 | 2,641 | 3,395 | 23.5 | 26.6 | 32.4 | 59,283 | 70,224 | 109,900 |
| DEL | 17 | 21 | 27 | 35.0 | 34.0 | 40.0 | 595 | 714 | 1,080 |
| FLA 1/2 | 12 | | | 36.0 | | | 432 | | |
| GA | 120 | 175 | 600 | 32.0 | 35.0 | 33.0 | 3,840 | 6,125 | 19,800 |
| IDAHO | 1,370 | 1,470 | 1,550 | 55.0 | 50.4 | 62.0 | 75,370 | 74,140 | 96,030 |
| ILL | 880 | 1,250 | 1,570 | 38.0 | 43.0 | 48.0 | 33,440 | 53,750 | 75,360 |
| IND | 740 | 945 | 1,100 | 39.0 | 47.0 | 49.0 | 28,860 | 44,415 | 53,900 |
| IOWA | 45 | 60 | 92 | 31.0 | 37.0 | 38.0 | 1,395 | 2,220 | 3,496 |
| KANS | 10,000 | 10,800 | 12,000 | 30.0 | 38.0 | 35.0 | 300,000 | 410,400 | 420,000 |
| KY | 180 | 290 | 350 | 36.0 | 38.0 | 39.5 | 6,480 | 11,020 | 13,825 |
| LA | 15 | 26 | 67 | 36.0 | 28.0 | 28.0 | 540 | 728 | 1,876 |
| MD | 80 | 90 | 97 | 37.0 | 37.0 | 38.0 | 2,960 | 3,330 | 3,686 |
| MICH | 410 | 735 | 800 | 40.0 | 43.0 | 44.0 | 16,400 | 31,605 | 35,200 |
| MINN | 2,776 | 2,578 | 3,169 | 33.6 | 35.1 | 32.4 | 93,225 | 90,384 | 102,556 |
| MISS | 65 | 115 | 250 | 31.0 | 32.0 | 31.0 | 2,015 | 3,680 | 7,750 |
| MO | 840 | 1,600 | 2,070 | 34.0 | 44.0 | 43.0 | 28,560 | 70,400 | 89,010 |
| MONT | 4,840 | 5,125 | 5,100 | 30.2 | 22.7 | 23.5 | 146,050 | 116,475 | 119,800 |
| NEBR | 2,550 | 2,550 | 2,950 | 32.0 | 34.0 | 38.0 | 81,600 | 86,700 | 112,100 |
| NEV | 22 | 24 | 29 | 59.5 | 59.2 | 62.1 | 1,310 | 1,420 | 1,800 |
| N J | 25 | 41 | 43 | 36.0 | 36.0 | 43.0 | 900 | 1,476 | 1,849 |
| N MEX | 336 | 410 | 500 | 18.0 | 22.0 | 21.0 | 6,048 | 9,020 | 10,500 |
| N Y | 75 | 160 | 150 | 35.0 | 41.0 | 40.0 | 2,625 | 6,560 | 6,000 |
| N C | 180 | 210 | 300 | 33.0 | 36.0 | 35.0 | 5,940 | 7,560 | 10,500 |
| N DAK | 9,585 | 9,600 | 9,620 | 29.8 | 26.3 | 18.7 | 286,065 | 252,235 | 179,650 |
| OHIO | 1,080 | 1,320 | 1,370 | 39.0 | 48.0 | 49.0 | 42,120 | 63,360 | 67,130 |
| OKLA | 5,400 | 5,700 | 6,500 | 27.0 | 38.0 | 30.0 | 145,800 | 216,600 | 195,000 |
| OREG | 1,225 | 1,245 | 1,350 | 42.4 | 46.0 | 57.3 | 51,925 | 57,310 | 77,400 |
| PA | 215 | 235 | 250 | 33.0 | 31.0 | 37.0 | 7,095 | 7,285 | 9,250 |
| S C | 65 | 100 | 192 | 33.0 | 33.0 | 36.0 | 2,145 | 3,300 | 6,912 |
| S DAK | 3,090 | 2,805 | 3,245 | 21.4 | 21.4 | 19.2 | 66,000 | 60,060 | 62,425 |
| TENN | 180 | 250 | 350 | 35.0 | 34.0 | 38.0 | 6,300 | 8,500 | 13,300 |
| TEX | 2,700 | 4,600 | 5,200 | 20.0 | 30.0 | 25.0 | 54,000 | 138,000 | 130,000 |
| UTAH | 270 | 282 | 272 | 30.0 | 26.4 | 32.9 | 8,103 | 7,448 | 8,942 |
| VA | 133 | 180 | 286 | 35.0 | 35.0 | 37.0 | 4,655 | 6,300 | 10,582 |
| WASH | 2,910 | 2,980 | 3,160 | 44.0 | 39.6 | 50.7 | 128,160 | 118,000 | 160,220 |
| W VA | 9 | 10 | 9 | 33.0 | 34.0 | 38.0 | 297 | 340 | 342 |
| WIS | 45 | 54 | 111 | 34.7 | 40.0 | 39.3 | 1,560 | 2,162 | 4,365 |
| WYO | 294 | 287 | 309 | 25.9 | 22.1 | 27.5 | 7,606 | 6,354 | 8,512 |
| U S | 56,495 | 62,454 | 70,853 | 31.4 | 34.2 | 33.4 | 1,775,524 | 2,134,060 | 2,369,666 |

1/ ESTIMATES DISCONTINUED AFTER 1978 CROP.

WINTER WHEAT

| STATE | AREA HARVESTED | | | YIELD | | | PRODUCTION | | |
|--------|----------------|--------|--------|--------|------|------|--------------|-----------|-----------|
| | 1978 | 1979 | 1980 | 1978 | 1979 | 1980 | 1978 | 1979 | 1980 |
| | 1,000 ACRES | | | BUSHEL | | | 1,000 BUSHEL | | |
| ALA | 90 | 145 | 235 | 26.0 | 26.0 | 24.5 | 2,340 | 3,770 | 5,758 |
| ARIZ | 47 | 55 | 60 | 70.0 | 78.0 | 80.0 | 3,290 | 4,290 | 4,800 |
| ARK | 300 | 420 | 820 | 37.0 | 35.0 | 38.0 | 11,100 | 14,700 | 31,160 |
| CALIF | 550 | 755 | 1,050 | 62.0 | 70.0 | 74.0 | 34,100 | 52,850 | 77,700 |
| COLO | 2,490 | 2,600 | 3,350 | 23.0 | 26.0 | 32.0 | 57,270 | 67,600 | 107,200 |
| DEL | 17 | 21 | 27 | 35.0 | 34.0 | 40.0 | 595 | 714 | 1,080 |
| FLA 1/ | 12 | | | 36.0 | | | 432 | | |
| GA | 120 | 175 | 600 | 32.0 | 35.0 | 33.0 | 3,840 | 6,125 | 19,800 |
| IDAHO | 820 | 850 | 910 | 51.0 | 42.0 | 57.0 | 41,820 | 35,700 | 51,870 |
| ILL | 880 | 1,250 | 1,570 | 38.0 | 43.0 | 48.0 | 33,440 | 53,750 | 75,360 |
| IND | 740 | 945 | 1,100 | 39.0 | 47.0 | 49.0 | 28,860 | 44,415 | 53,900 |
| IOWA | 45 | 60 | 92 | 31.0 | 37.0 | 38.0 | 1,395 | 2,220 | 3,496 |
| KANS | 10,000 | 10,800 | 12,000 | 30.0 | 38.0 | 35.0 | 300,000 | 410,400 | 420,000 |
| KY | 180 | 290 | 350 | 36.0 | 38.0 | 39.5 | 6,480 | 11,020 | 13,825 |
| LA | 15 | 26 | 67 | 36.0 | 28.0 | 28.0 | 540 | 728 | 1,876 |
| MD | 80 | 90 | 97 | 37.0 | 37.0 | 38.0 | 2,960 | 3,330 | 3,686 |
| MICH | 410 | 735 | 800 | 40.0 | 43.0 | 44.0 | 16,400 | 31,605 | 35,200 |
| MINN | 58 | 51 | 69 | 29.0 | 35.0 | 34.0 | 1,682 | 1,785 | 2,346 |
| MISS | 65 | 115 | 250 | 31.0 | 32.0 | 31.0 | 2,015 | 3,680 | 7,750 |
| MO | 840 | 1,600 | 2,070 | 34.0 | 44.0 | 43.0 | 28,560 | 70,400 | 89,010 |
| MONT | 2,700 | 2,250 | 2,150 | 31.0 | 25.5 | 25.5 | 83,700 | 57,375 | 54,825 |
| NEBR | 2,550 | 2,550 | 2,950 | 32.0 | 34.0 | 38.0 | 81,600 | 86,700 | 112,100 |
| NEV | 10 | 11 | 12 | 65.0 | 70.0 | 65.0 | 650 | 770 | 780 |
| N J | 25 | 41 | 43 | 36.0 | 36.0 | 43.0 | 900 | 1,476 | 1,849 |
| N MEX | 336 | 410 | 500 | 18.0 | 22.0 | 21.0 | 6,048 | 9,020 | 10,500 |
| N Y | 75 | 160 | 150 | 35.0 | 41.0 | 40.0 | 2,625 | 6,560 | 6,000 |
| N C | 180 | 210 | 300 | 33.0 | 36.0 | 35.0 | 5,940 | 7,560 | 10,500 |
| N DAK | 135 | 120 | 70 | 29.0 | 22.0 | 15.0 | 3,915 | 2,640 | 1,050 |
| OHIO | 1,080 | 1,320 | 1,370 | 39.0 | 48.0 | 49.0 | 42,120 | 63,360 | 67,130 |
| OKLA | 5,400 | 5,700 | 6,500 | 27.0 | 38.0 | 30.0 | 145,800 | 216,600 | 195,000 |
| OREG | 1,100 | 1,000 | 1,200 | 43.0 | 48.0 | 60.0 | 47,300 | 48,000 | 72,000 |
| PA | 215 | 235 | 250 | 33.0 | 31.0 | 37.0 | 7,095 | 7,285 | 9,250 |
| S C | 65 | 100 | 192 | 33.0 | 33.0 | 36.0 | 2,145 | 3,300 | 6,912 |
| S DAK | 700 | 550 | 950 | 26.0 | 19.0 | 22.0 | 18,200 | 10,450 | 20,900 |
| TENN | 180 | 250 | 350 | 35.0 | 34.0 | 38.0 | 6,300 | 8,500 | 13,300 |
| TEX | 2,700 | 4,600 | 5,200 | 20.0 | 30.0 | 25.0 | 54,000 | 138,000 | 130,000 |
| UTAH | 231 | 242 | 242 | 29.0 | 24.0 | 31.0 | 6,699 | 5,808 | 7,502 |
| VA | 133 | 180 | 286 | 35.0 | 35.0 | 37.0 | 4,655 | 6,300 | 10,582 |
| WASH | 2,600 | 2,200 | 2,750 | 45.0 | 43.0 | 52.0 | 117,000 | 94,600 | 143,000 |
| W VA | 9 | 10 | 9 | 33.0 | 34.0 | 38.0 | 297 | 340 | 342 |
| WIS | 33 | 38 | 88 | 36.0 | 43.0 | 41.5 | 1,188 | 1,634 | 3,652 |
| WYO | 275 | 267 | 295 | 26.0 | 22.0 | 28.0 | 7,150 | 5,874 | 8,260 |
| U S | 38,491 | 43,427 | 51,374 | 31.8 | 36.9 | 36.8 | 1,222,446 | 1,601,234 | 1,891,251 |

1/ ESTIMATES DISCONTINUED AFTER 1978 CROP.

DURUM WHEAT

| STATE | AREA HARVESTED | | | YIELD | | | PRODUCTION | | |
|-------|----------------|-------|-------|--------|------|------|--------------|---------|---------|
| | 1978 | 1979 | 1980 | 1978 | 1979 | 1980 | 1978 | 1979 | 1980 |
| | 1,000 ACRES | | | BUSHEL | | | 1,000 BUSHEL | | |
| ARIZ | 91 | 70 | 155 | 70.0 | 75.0 | 80.0 | 6,370 | 5,250 | 12,400 |
| CALIF | 115 | 45 | 100 | 75.0 | 80.0 | 78.0 | 8,625 | 3,600 | 7,800 |
| MINN | 98 | 77 | 120 | 38.5 | 37.0 | 28.0 | 3,773 | 2,849 | 3,360 |
| MONT | 290 | 325 | 400 | 30.0 | 21.0 | 19.0 | 8,700 | 6,825 | 7,600 |
| N DAK | 3,240 | 3,250 | 3,850 | 31.5 | 26.0 | 19.0 | 102,060 | 84,500 | 73,150 |
| S DAK | 190 | 165 | 215 | 20.0 | 22.0 | 19.0 | 3,800 | 3,630 | 4,085 |
| U S | 4,024 | 3,932 | 4,840 | 33.1 | 27.1 | 22.4 | 133,328 | 106,654 | 108,395 |

OTHER SPRING WHEAT

| STATE | AREA HARVESTED | | | YIELD | | | PRODUCTION | | |
|-------|----------------|--------|--------|--------|------|------|--------------|---------|---------|
| | 1978 | 1979 | 1980 | 1978 | 1979 | 1980 | 1978 | 1979 | 1980 |
| | 1,000 ACRES | | | BUSHEL | | | 1,000 BUSHEL | | |
| COLO | 33 | 41 | 45 | 61.0 | 64.0 | 60.0 | 2,013 | 2,624 | 2,700 |
| IDAHO | 550 | 620 | 640 | 61.0 | 62.0 | 69.0 | 33,550 | 38,440 | 44,160 |
| MINN | 2,620 | 2,450 | 2,980 | 33.5 | 35.0 | 32.5 | 87,770 | 85,750 | 96,850 |
| MONT | 1,850 | 2,550 | 2,550 | 29.0 | 20.5 | 22.5 | 53,650 | 52,275 | 57,375 |
| NEV | 12 | 13 | 17 | 55.0 | 50.0 | 60.0 | 660 | 650 | 1,020 |
| N DAK | 6,210 | 6,230 | 5,700 | 29.0 | 26.5 | 18.5 | 180,090 | 165,095 | 105,450 |
| OREG | 125 | 245 | 150 | 37.0 | 38.0 | 36.0 | 4,625 | 9,310 | 5,400 |
| S DAK | 2,200 | 2,090 | 2,080 | 20.0 | 22.0 | 18.0 | 44,000 | 45,980 | 37,440 |
| UTAH | 39 | 40 | 30 | 36.0 | 41.0 | 48.0 | 1,404 | 1,640 | 1,440 |
| WASH | 310 | 780 | 410 | 36.0 | 30.0 | 42.0 | 11,160 | 23,400 | 17,220 |
| WIS | 12 | 16 | 23 | 31.0 | 33.0 | 31.0 | 372 | 528 | 713 |
| WYO | 19 | 20 | 14 | 24.0 | 24.0 | 18.0 | 456 | 480 | 252 |
| U S | 13,980 | 15,095 | 14,639 | 30.0 | 28.2 | 25.3 | 419,750 | 426,172 | 370,020 |

WHEAT PRODUCTION BY CLASSES, UNITED STATES

| YEAR | WINTER | | | SPRING | | | TOTAL |
|------|--------------|----------|---------|----------|---------|--------|-----------|
| | HARD RED | SOFT RED | WHITE | HARD RED | DURUM | WHITE | |
| | 1,000 BUSHEL | | | | | | |
| 1978 | 528,527 | 461,529 | 232,390 | 379,694 | 133,328 | 40,056 | 1,775,524 |
| 1979 | 1,088,918 | 316,698 | 195,618 | 362,891 | 106,654 | 63,281 | 2,134,060 |
| 1980 | 1,184,811 | 427,530 | 278,910 | 311,226 | 108,395 | 58,794 | 2,369,666 |
| 1981 | 1,203,109 | 526,177 | 247,793 | | | | |

RYE

| STATE | AREA HARVESTED | | | YIELD | | | PRODUCTION | | |
|----------|----------------|------|------|--------|------|------|--------------|--------|--------|
| | 1978 | 1979 | 1980 | 1978 | 1979 | 1980 | 1978 | 1979 | 1980 |
| | 1,000 ACRES | | | BUSHEL | | | 1,000 BUSHEL | | |
| COLO | 5 | 5 | 6 | 21.0 | 20.0 | 20.0 | 105 | 100 | 120 |
| DEL | 4 | 3 | 3 | 25.0 | 24.0 | 29.0 | 100 | 72 | 87 |
| GA | 110 | 110 | 95 | 23.0 | 21.0 | 21.0 | 2,530 | 2,310 | 1,995 |
| ILL | 16 | 17 | 16 | 23.0 | 23.0 | 23.0 | 368 | 391 | 368 |
| IND | 7 | 8 | 7 | 25.0 | 26.0 | 26.0 | 175 | 208 | 182 |
| IOWA | 5 | 5 | 5 | 30.0 | 29.0 | 30.0 | 150 | 145 | 150 |
| KANS | 15 | 18 | 10 | 21.0 | 28.0 | 21.0 | 315 | 504 | 210 |
| KY | 4 | 4 | 3 | 27.0 | 24.0 | 24.0 | 108 | 96 | 72 |
| MD | 8 | 7 | 8 | 30.0 | 29.0 | 27.0 | 240 | 203 | 216 |
| MICH | 25 | 25 | 21 | 24.0 | 25.0 | 24.0 | 600 | 625 | 504 |
| MINN | 98 | 91 | 76 | 24.0 | 25.0 | 25.0 | 2,352 | 2,275 | 1,900 |
| MO | 7 | 8 | 5 | 25.0 | 23.0 | 23.0 | 175 | 184 | 115 |
| NEBR | 40 | 35 | 26 | 19.0 | 22.0 | 18.0 | 760 | 770 | 468 |
| N J | 11 | 10 | 8 | 23.0 | 25.0 | 27.0 | 253 | 250 | 216 |
| N Y | 9 | 10 | 9 | 31.0 | 32.0 | 32.0 | 279 | 320 | 288 |
| N C | 20 | 20 | 20 | 23.0 | 23.0 | 20.0 | 460 | 460 | 400 |
| N DAK | 180 | 150 | 70 | 30.0 | 28.0 | 21.0 | 5,400 | 4,200 | 1,470 |
| OHIO | 6 | 5 | 7 | 31.0 | 31.0 | 33.0 | 186 | 155 | 231 |
| OKLA | 30 | 35 | 34 | 19.0 | 26.0 | 24.0 | 570 | 910 | 816 |
| OREG | 7 | 6 | 6 | 24.0 | 24.0 | 25.0 | 168 | 144 | 150 |
| PA | 16 | 17 | 14 | 32.0 | 27.0 | 31.0 | 512 | 459 | 434 |
| S C | 33 | 29 | 28 | 22.0 | 21.0 | 22.0 | 726 | 609 | 616 |
| S DAK | 200 | 190 | 130 | 31.0 | 30.0 | 31.0 | 6,200 | 5,700 | 4,030 |
| TENN 1/1 | 2 | | | 19.0 | | | 38 | | |
| TEX | 29 | 27 | 26 | 14.0 | 19.0 | 19.0 | 406 | 513 | 494 |
| VA | 17 | 16 | 13 | 25.0 | 24.0 | 25.0 | 425 | 384 | 325 |
| WASH 1/1 | 3 | | | 21.0 | | | 63 | | |
| WIS | 17 | 16 | 16 | 21.0 | 23.0 | 23.0 | 357 | 368 | 368 |
| WYO | 2 | 2 | 2 | 22.0 | 17.0 | 20.0 | 44 | 34 | 40 |
| U S | 926 | 869 | 664 | 26.0 | 25.8 | 24.5 | 24,065 | 22,389 | 16,265 |

1/ ESTIMATES DISCONTINUED AFTER 1978 CROP.

ALASKA

| CROP | AREA HARVESTED | | | YIELD | | | PRODUCTION | | |
|------------------|----------------|-------|--------|--------|------|------|--------------|-------|-------|
| | 1978 | 1979 | 1980 | 1978 | 1979 | 1980 | 1978 | 1979 | 1980 |
| | ACRES | | | BUSHEL | | | 1,000 BUSHEL | | |
| OATS FOR GRAIN | 600 | 300 | 600 | 48.0 | 52.0 | 43.5 | 28.8 | 15.6 | 26.1 |
| BARLEY FOR GRAIN | 4,000 | 5,800 | 11,500 | 37.5 | 49.5 | 29.5 | 150.0 | 287.0 | 339.0 |

RICE

| STATE | AREA HARVESTED | | | YIELD | | | PRODUCTION | | |
|--------------------------|----------------|---------|---------|--------|-------|-------|------------|---------|---------|
| | 1978 | 1979 | 1980 | 1978 | 1979 | 1980 | 1978 | 1979 | 1980 |
| | 1,000 ACRES | | | POUNDS | | | 1,000 CWT | | |
| <u>LONG GRAIN RICE</u> | | | | | | | | | |
| ARK | 908.0 | 881.0 | 1,083.0 | 4,400 | 4,250 | 4,025 | 39,952 | 37,443 | 43,591 |
| LA | 238.0 | 285.0 | 250.0 | 3,850 | 3,875 | 3,550 | 9,163 | 11,044 | 8,875 |
| MISS | 213.0 | 206.0 | 236.0 | 4,250 | 4,050 | 3,850 | 9,052 | 8,343 | 9,086 |
| MO | 28.0 | 32.0 | 50.0 | 4,300 | 3,800 | 4,200 | 1,204 | 1,216 | 2,100 |
| TEX | 538.0 | 536.0 | 572.0 | 4,725 | 4,225 | 4,250 | 25,421 | 22,646 | 24,310 |
| U S | 1,925.0 | 1,940.0 | 2,191.0 | 4,405 | 4,159 | 4,015 | 84,792 | 80,692 | 87,962 |
| <u>MEDIUM GRAIN RICE</u> | | | | | | | | | |
| ARK | 150.0 | 110.0 | 175.0 | 4,625 | 4,805 | 4,600 | 6,937 | 5,286 | 8,050 |
| CALIF | 294.0 | 373.0 | 432.0 | 5,200 | 6,600 | 6,500 | 15,288 | 24,618 | 28,080 |
| LA | 349.0 | 243.0 | 335.0 | 3,800 | 3,950 | 3,550 | 13,262 | 9,599 | 11,893 |
| MISS | 2.0 | 1.0 | 4.0 | 4,300 | 4,100 | 3,500 | 86 | 41 | 140 |
| MO | 1.6 | 3.0 | 4.6 | 4,750 | 3,900 | 4,150 | 76 | 117 | 191 |
| TEX | 20.0 | 19.0 | 12.0 | 4,025 | 4,000 | 3,600 | 805 | 760 | 432 |
| U S | 816.6 | 749.0 | 962.6 | 4,464 | 5,397 | 5,068 | 36,454 | 40,421 | 48,786 |
| <u>SHORT GRAIN RICE</u> | | | | | | | | | |
| ARK | 32.0 | 29.0 | 22.0 | 5,050 | 4,605 | 4,425 | 1,616 | 1,335 | 974 |
| CALIF | 196.0 | 149.0 | 116.0 | 5,250 | 6,325 | 6,225 | 10,290 | 9,424 | 7,221 |
| MO | .4 | | 1.4 | 4,500 | | 3,575 | 18 | | 50 |
| TEX | | 2.0 | 2.0 | | 3,750 | 3,500 | | 75 | 70 |
| U S | 228.4 | 180.0 | 141.4 | 5,221 | 6,019 | 5,880 | 11,924 | 10,834 | 8,315 |
| <u>ALL RICE</u> | | | | | | | | | |
| ARK | 1,090.0 | 1,020.0 | 1,280.0 | 4,450 | 4,320 | 4,110 | 48,505 | 44,064 | 52,615 |
| CALIF | 490.0 | 522.0 | 548.0 | 5,220 | 6,520 | 6,440 | 25,578 | 34,042 | 35,301 |
| LA | 587.0 | 528.0 | 585.0 | 3,820 | 3,910 | 3,550 | 22,425 | 20,643 | 20,768 |
| MISS | 215.0 | 207.0 | 240.0 | 4,250 | 4,050 | 3,840 | 9,138 | 8,384 | 9,226 |
| MO | 30.0 | 35.0 | 56.0 | 4,330 | 3,810 | 4,180 | 1,298 | 1,333 | 2,341 |
| TEX | 558.0 | 557.0 | 586.0 | 4,700 | 4,220 | 4,230 | 26,226 | 23,481 | 24,812 |
| U S | 2,970.0 | 2,869.0 | 3,295.0 | 4,484 | 4,599 | 4,403 | 133,170 | 131,947 | 145,063 |

WINTER WHEAT: Farmers in the U.S. seeded a record high 63.9 million acres (25.9 million hectares) of winter wheat in the fall of 1980 for the 1981 crop. This is 11 percent more than last year's 57.4 million acres (23.2 million hectares), and 5 percent above the previous record high of 61.2 million acres (24.8 million hectares) seeded in the fall of 1948.

Winter wheat production for 1981, based on condition of the crop on December 1, 1980 is forecast at a record high 1.98 billion bushels (53.8 million metric tons). This is 5 percent more than the production in 1980. Seeded yield is forecast at 30.9 bushels per acre. In comparison, last year's average was 32.9 bushels per planted acre. Growers in the North Central region increased acreage 11 percent over last year. Increases by States ranged from 2 percent in Michigan, to 73 percent in Minnesota.

Western wheat growers decreased acreage from last year by 1 percent. Seven of the eleven Western States reduced acreage from last year. The acreage reduction offset increases in four Western States ranging from 2 percent in Montana and New Mexico to 19 percent in California. Northeastern and Southern States combined increased winter wheat acreage 20 percent from a year ago. The two major producing States in the Southern region--Oklahoma and Texas--increased acreage 5 and 13 percent, respectively.

Winter wheat seedings for 1981 harvest got underway in late August and reached 45 percent complete by the end of September, lagging behind last year. Producers in the northern Great Plains neared completion, but seeding in the southern Great Plains was delayed because of dry soils. Rainfall during September was sparse in most areas of the Great Plains. South Dakota, Nebraska, and most of Kansas received less than half the normal precipitation during the month; Oklahoma received from 25 to 100 percent of normal. Most of the Great Plains needed additional moisture for good germination and growth. Texas received significant rainfall during September, although many areas in the State were still dry. In Kansas, fields were seeded under very dry conditions and needed moisture to germinate, resulting in spotty stands. In Colorado, rain fell during the month providing growers with favorable seedbed conditions, which enabled seedings to reach 85 percent complete by the end of September.

By December 1, only minor acreages of winter wheat remained to be seeded across the southern part of the Nation, and California was nearly 60 percent complete. Most of the Great Plains crop was germinated and had emerged with fair to mostly good stands, although more moisture was needed. Some reseeding was necessary in Kansas where moisture was short and early growth was slow. Light to moderate wind damage was reported in eastern parts of Montana. Mild temperatures in Nebraska slowed the transition to dormancy and dry conditions increased the chance of winterkill. Texas fields benefited from rains during November although some fields in the Northern High Plains were still moisture stressed.

RELIABILITY OF DECEMBER 1 WINTER WHEAT PRODUCTION FORECAST

The winter wheat production forecast in this report is based on acreage and yield surveys conducted during November and early December. Acreage information was obtained through both a mailed survey and a probability area survey in which farmers were interviewed in person or by telephone. Yield forecasts are based on farmer appraisals of crop conditions obtained by a mail survey that centered on December 1. These surveys to obtain acreage and yield information are subject to sampling and non-sampling type errors that are common to all surveys. More importantly, the production forecast is subject to change due to future weather effects and other factors that cannot be measured currently but directly affect final production.

To assist users in evaluating the reliability of the December 1 winter wheat production forecast, the "Root Mean Square Error", a statistical measure based on past performance, is computed. This is done by expressing the deviations between the December 1 production forecast and the final estimate as a percentage of the final estimate, and averaging the squared percentage deviations for the 1961-80 twenty-year period; the square root of the average becomes statistically the "Root Mean Square Error". Probability statements can be made concerning expected errors in the current forecast relative to the final end of season estimate, assuming that factors affecting this year's forecast are not different from those influencing recent year forecasts.

The "Root Mean Square Error" for the December 1 winter wheat production forecast is 8.0 percent. This means that chances are 2 out of 3 that the current production forecast of 1977 million bushels will not be above or below the final estimate by more than 8.0 percent or approximately 158 million bushels. Chances are 9 out of 10 (90 percent confidence level) that the difference will not exceed 13.8 percent or approximately 273 million bushels.

Differences between the December 1 winter wheat production forecast and the final estimate during the past 10 years (1971-80) have averaged 114 million bushels, ranging from virtually no change to 323 million bushels. The December 1 forecast has been below the final estimate 7 times and above 3 times.

WINTER WHEAT

| STATE | AREA SEEDED ^{1/} | | | 1981 1980 | PRODUCTION | | |
|-------|---------------------------|--------|--------|--------------|---------------|-----------|--------------------|
| | CROP OF | | | | CROP OF | | |
| | 1979 | 1980 | 1981 | | 1979 | 1980 | 1981 ^{2/} |
| | 1,000 ACRES | | | PERCENT | 1,000 BUSHELS | | |
| ALA | 220 | 325 | 600 | 185 | 3,770 | 5,758 | 11,100 |
| ARIZ | 60 | 65 | 50 | 77 | 4,290 | 4,800 | 3,800 |
| ARK | 530 | 900 | 1,700 | 189 | 14,700 | 31,160 | 51,000 |
| CALIF | 793 | 1,130 | 1,350 | 119 | 52,850 | 77,700 | 90,450 |
| COLO | 3,200 | 3,500 | 3,450 | 99 | 67,600 | 107,200 | 75,900 |
| DEL | 22 | 33 | 45 | 136 | 714 | 1,080 | 1,395 |
| GA | 210 | 660 | 990 | 150 | 6,125 | 19,800 | 24,750 |
| IDAHO | 980 | 980 | 880 | 90 | 35,700 | 51,870 | 41,360 |
| ILL | 1,310 | 1,600 | 1,800 | 113 | 53,750 | 75,360 | 77,400 |
| IND | 1,000 | 1,150 | 1,400 | 122 | 44,415 | 53,900 | 60,200 |
| IOWA | 70 | 100 | 115 | 115 | 2,220 | 3,496 | 3,680 |
| KANS | 12,100 | 13,000 | 14,000 | 108 | 410,400 | 420,000 | 420,000 |
| KY | 380 | 450 | 700 | 156 | 11,020 | 13,825 | 22,400 |
| LA | 38 | 100 | 200 | 200 | 728 | 1,876 | 4,400 |
| MD | 97 | 100 | 130 | 130 | 3,330 | 3,686 | 4,420 |
| MICH | 750 | 820 | 840 | 102 | 31,605 | 35,200 | 33,600 |
| MINN | 60 | 75 | 130 | 173 | 1,785 | 2,346 | 3,380 |
| MISS | 160 | 300 | 450 | 150 | 3,680 | 7,750 | 10,800 |
| MO | 1,780 | 2,200 | 3,200 | 145 | 70,400 | 89,010 | 118,400 |
| MONT | 3,000 | 2,600 | 2,650 | 102 | 57,375 | 54,825 | 68,900 |
| NEBR | 3,000 | 3,100 | 3,200 | 103 | 86,700 | 112,100 | 99,200 |
| NEV | 12 | 13 | 14 | 108 | 770 | 780 | 840 |
| N J | 51 | 52 | 61 | 117 | 1,476 | 1,849 | 1,830 |
| N MEX | 576 | 600 | 612 | 102 | 9,020 | 10,500 | 9,180 |
| N Y | 170 | 160 | 170 | 106 | 6,560 | 6,000 | 6,460 |
| N C | 235 | 325 | 440 | 135 | 7,560 | 10,500 | 13,200 |
| N DAK | 170 | 135 | 145 | 107 | 2,640 | 1,050 | 3,190 |
| OHIO | 1,350 | 1,400 | 1,550 | 111 | 63,360 | 67,130 | 72,850 |
| OKLA | 7,000 | 7,500 | 7,900 | 105 | 216,600 | 195,000 | 213,300 |
| OREG | 1,180 | 1,250 | 1,150 | 92 | 48,000 | 72,000 | 63,250 |
| PA | 245 | 260 | 260 | 100 | 7,285 | 9,250 | 7,800 |
| S C | 110 | 205 | 320 | 146 | 3,300 | 6,912 | 10,240 |
| S DAK | 1,080 | 1,200 | 1,250 | 104 | 10,450 | 20,900 | 18,750 |
| TENN | 340 | 430 | 650 | 151 | 8,500 | 13,300 | 17,550 |
| TEX | 5,800 | 6,800 | 7,700 | 113 | 138,000 | 130,000 | 154,000 |
| UTAH | 271 | 260 | 250 | 96 | 5,808 | 7,502 | 6,500 |
| VA | 215 | 317 | 420 | 132 | 6,300 | 10,582 | 13,860 |
| WASH | 2,850 | 2,900 | 2,750 | 95 | 94,600 | 143,000 | 126,500 |
| W VA | 12 | 11 | 12 | 109 | 340 | 342 | 324 |
| WIS | 40 | 94 | 100 | 106 | 1,634 | 3,652 | 3,600 |
| WYO | 320 | 325 | 305 | 94 | 5,874 | 8,260 | 7,320 |
| U S | 51,787 | 57,425 | 63,939 | 111 | 1,601,234 | 1,891,251 | 1,977,079 |

^{1/} TOTAL AREA SEEDED FOR ALL PURPOSES.

^{2/} INDICATED DEC. 1, 1980.

RYE: Growers seeded 2.61 million acres (1.06 million hectares) of rye for all purposes in the fall of 1980. This is 3 percent more than the 1980 crop plantings of 2.53 million acres (1.02 million hectares), but 11 percent less than the 1979 crop seedings. Georgia, the State with the largest planted acreage, shows no change from a year earlier. Georgia growers had seeded about 90 percent of their rye by the end of November. Soil moisture was adequate.

Major rye grain producing States in the North Central area (Minnesota, Nebraska, North Dakota, and South Dakota) decreased planted acres 4 percent from last year. Rye seeding in North Dakota was almost complete by the end of September.

Rye condition was mostly fair to good in North and South Dakota by the end of November. Soil moisture ranged from short to adequate.

| RYE | | | | |
|-------|----------------|-------|-------|---------|
| STATE | AREA SEEDED 1/ | | | |
| | CROP OF | | | 1981 |
| | 1979 | 1980 | 1981 | 1980 |
| | 1,000 ACRES | | | PERCENT |
| COLO | 42 | 29 | 35 | 121 |
| DEL | 40 | 30 | 26 | 87 |
| GA | 510 | 450 | 450 | 100 |
| ILL | 70 | 70 | 65 | 93 |
| IND | 40 | 35 | 40 | 114 |
| IOWA | 22 | 19 | 21 | 111 |
| KANS | 85 | 60 | 55 | 92 |
| KY | 66 | 54 | 57 | 106 |
| MD | 50 | 60 | 66 | 110 |
| MICH | 135 | 130 | 125 | 96 |
| MINN | 100 | 85 | 90 | 106 |
| MO | 55 | 40 | 50 | 125 |
| NEBR | 70 | 55 | 60 | 109 |
| N J | 79 | 82 | 84 | 102 |
| N Y | 107 | 98 | 100 | 102 |
| N C | 145 | 140 | 145 | 104 |
| N DAK | 170 | 100 | 90 | 90 |
| OHIO | 65 | 80 | 85 | 106 |
| OKLA | 200 | 200 | 230 | 115 |
| OREG | 31 | 35 | 45 | 129 |
| PA | 65 | 55 | 65 | 118 |
| S C | 130 | 126 | 120 | 95 |
| S DAK | 250 | 150 | 135 | 90 |
| TEX | 170 | 150 | 140 | 93 |
| VA | 180 | 150 | 180 | 120 |
| WIS | 40 | 40 | 44 | 110 |
| WYO | 4 | 4 | 4 | 100 |
| U S | 2,921 | 2,527 | 2,607 | 103 |

1/ TOTAL AREA SEEDED FOR ALL PURPOSES.

I N D E X

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December 30, 1980

E R R A T A

SMALL GRAINS - Cr Pr 2-2 (80) issued December 23, 1980

Page A-3 - United States Crop Summary (Domestic Units)

| <u>Item</u> | 1979 | <u>Crop Of</u> 1980 | 1981 |
|----------------------------|-------------------------|-------------------------|------|
| <u>Winter Wheat</u> | | | |
| Yield Per Seeded Acre (Bu) | 36.9 30.9 | 36.8 32.9 | 30.9 |

Page B-8 - Wheat Production by Classes, United States

| <u>Year</u> | <u>Winter Wheat</u> | | |
|-------------|-------------------------------|-------------------------------|-------------------------------|
| | <u>Hard Red</u> | <u>Soft Red</u> | <u>White</u> |
| | | 1,000 Bushels | |
| 1978 | 628,527 829,908 | 461,529 188,920 | 232,396 203,618 |

