



The 1996 Alabama Performance Comparison
of Small Grain Varieties



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Information contained herein is available to all persons regardless of race, color, sex, or national origin.

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THE 1996 ALABAMA PERFORMANCE COMPARISON OF SMALL GRAIN VARIETIES

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INTRODUCTION

The large number of commercially available varieties of wheat, oat, rye, barley, and triticale makes it difficult for growers to select varieties most suited for their particular area of the State. Making this decision requires up-to-date, unbiased, reliable information on varietal yields and characteristics. This report is published annually to provide Alabama growers with this information.

Entries in each experiment are determined by the companies or institutes which control each variety, or line, not by experiment station personnel. Data from tests conducted at 10 locations were used to compile this report and they represent the varied growing conditions farmers have around the State.

PROCEDURE

The experimental design for the tests was a split plot design with species as the main plot and varieties as subplots. Plots were 5 feet by 20 feet with rows spaced 7 inches apart. A cone drill was used to plant all tests in the State. Each variety was replicated three times in each test.

The trials were divided into two management systems: grain only and forage only.

¹Research Assistant, Extension Agronomist/Associate Professor, and Professor of Agronomy and Soils.

Grain only: These tests are normally planted during late October to early November, which is approximately one month later than the forage tests. Planting dates for all tests in 1995 are shown in table 1. Tests in Southern Alabama were split into regular and late planting dates because small grains with very low vernalization requirements should be planted after November 25. All tests were fertilized with P and K according to soil test plus 20 pounds N per acre at planting with a top dressing of 60 pounds N per acre in late February or early March, just prior to jointing. The plots were not sprayed to control disease, so that the varieties could be rated for their inherent disease resistance. The grain was allowed to mature and was harvested with a plot combine. The grain was cleaned and weighed. Moisture and bushel test weight were measured.

Forage only: These tests are normally planted in late September to early October. Tests were fertilized at planting with 100 pounds N per acre and clipped with a flail-type mower each time they reached 6 inches in height. A sample was weighed green from each plot, then dried and reweighed. The percent dry matter figure from these weights was used to calculate dry forage matter per acre. The test was topdressed in February with 60 pounds N per acre and clipping was continued until no regrowth occurred.

DATA EXPLANATION

Grain yields were calculated by weighing air-dried grain and using 60 pounds per bushel for wheat, 32 pounds per bushel for oats, 48 pounds per bushel for barley, and 50 pounds per bushel for triticale.

Lodging was measured as the percent of plants in the stand broken or leaning that would likely be missed by a combine. Height was measured from the ground to top of the grain head.

The 1/10 headed date is the date when approximately 10 percent of a plot showed fully emerged heads.

Disease ratings for all 1995-96 variety trials are summarized by region in tables 16 through 23. Katherine Burch, Research Assistant, Plant Pathology, made disease ratings at all locations. At the time of mid-season ratings, disease incidence and severity were generally lower at all locations than in 1995. On wheat, incidence of leaf rust and powdery mildew was very low in the southern and central regions and was not found at the northern locations. Levels of Septoria leaf blotch were slightly higher in most locations of the state. Two viral diseases, barley yellow dwarf and soilborne wheat mosaic, were found throughout the state. While levels of barley yellow dwarf at mid-season were slightly higher than at most locations in 1995, by the end of the season, most plots at the northern locations reached 90-100% infection. Due to the late onset of the virus, yields were not significantly affected. On oats, Helminthosporium leaf spot and Septoria blotch occurred throughout the state. Crown rust was not detected. Barley yellow dwarf was prevalent in the northern and central locations with a very low incidence at the southern locations. On triticale, low levels of leaf rust and Septoria blotch were seen on entries at most locations. On barley, low levels of stripe, net blotch, spot blotch, barley yellow dwarf and Septoria blotch developed in most tests.

DISCUSSION

Growing conditions and variety performance often vary among locations and years. Regional averages and multiple-year averages are given here to use as a better indicator for performance comparison. In the 1993-94 growing season, weather conditions were favorable and production was generally good throughout the state. Bird damage was moderate in oats at

most southern locations. In the 1994-95 growing season, a mild winter may have affected vernalization in some varieties. Bird damage was moderate to severe in oats at most central and southern locations. The 1995-96 growing season was much colder than normal which severely reduced yields on some varieties at all locations. Oat varieties were especially affected and several varieties were winter killed.

Table 1. Location, Planting and Harvest Dates for 1995-96 Small Grain Tests

| Location | Date planted | Date harvested |
|--|--------------|----------------|
| NORTHERN ALABAMA | | |
| Tennessee Valley Substation (Belle Mina) | | |
| Small grain forage only | October 10 | |
| Small grain grain only | October 25 | June 19 |
| Sand Mountain Substation (Crossville) | | |
| Small grain forage only | October 20 | |
| Small grain grain only | October 23 | June 7 |
| Upper Coastal Plain Substation (Winfield) | | |
| Small grain forage only | October 18 | |
| Small grain grain only | October 18 | June 26 |
| CENTRAL ALABAMA | | |
| Black Belt Substation (Marion Junction) | | |
| Small grain forage only | October 26 | |
| Small grain grain only | October 26 | June 4 |
| E.V. Smith Res. Ctr., Plant Breeding Unit (Tallassee) | | |
| Small grain forage only | September 28 | |
| Small grain grain only | October 24 | June 6 |
| Prattville Experiment Field (Prattville) | | |
| Small grain forage only | September 29 | |
| Small grain grain only | November 15 | June 12 |
| SOUTHERN ALABAMA | | |
| Gulf Coast Substation (Fairhope) | | |
| Small grain forage only | October 11 | |
| Small grain grain only | November 29 | May 27 |
| Small grain grain only late | December 14 | May 27 |
| Monroeville Experiment Field (Monroeville) | | |
| Small grain forage only | October 13 | |
| Small grain grain only | October 30 | June 1 |
| Small grain grain only late | November 27 | June 1 |
| Lower Coastal Plain Substation (Camden) | | |
| Small grain forage only | October 17 | |
| Small grain grain only | October 17 | May 30 |
| Small grain grain only late | December 15 | May 30 |
| Wiregrass Substation (Headland) | | |
| Small grain forage only | October 20 | |
| Small grain grain only | November 20 | June 5 |
| Small grain grain only late | December 14 | June 5 |

TABLE 2. CHARACTERISTICS OF SMALL GRAINS TESTED IN NORTHERN ALABAMA, 3-YEAR SUMMARY

| Brand-Variety | Average Yield/Acre | | | Average Yield/Acre | | | 1996 Average | | | Test Wt. Lb./Bu. |
|--------------------------|--------------------|-------|-------|--------------------|-------|-------|------------------------|-------------|----------------|---------------------|
| | Grain Only | | | Forage Only | | | Lodging Height Pct. | 1/10 In. | Date Headed | |
| | 1996 | 2-Yr. | 3-Yr. | 1996 | 2-Yr. | 3-Yr. | | | | |
| Bu. | Bu. | Bu. | Lb. | Lb. | Lb. | | | | | |
| Wheat | | | | | | | | | | |
| Pioneer 2566 | 55 | 47 | 58 | - | - | - | 0 | 31 | 4-27 | 55.7 |
| Pioneer 2580 | 48 | 45 | 55 | - | - | - | 0 | 28 | 4-27 | 54.9 |
| Pioneer 2628 | 46 | 43 | 53 | - | - | - | 0 | 30 | 4-29 | 55.8 |
| Jackson | 42 | 39 | 52 | 2,264 | 2,194 | 2,565 | 0 | 28 | 4-29 | 55.6 |
| Pioneer 2643 | 28 | 39 | 52 | - | - | - | 0 | 24 | 4-30 | 55.6 |
| GA GORE | 39 | 39 | 51 | 1,863 | - | - | 0 | 29 | 4-27 | 55.3 |
| Pioneer 2684 | 37 | 36 | 51 | - | - | - | 0 | 28 | 4-28 | 58.1 |
| Madison | 40 | 37 | 49 | 2,319 | 2,097 | 2,322 | 1 | 29 | 4-28 | 53.5 |
| Wakefield | 38 | 32 | 47 | 2,264 | 2,140 | 2,273 | 0 | 30 | 5- 3 | 54.7 |
| Terral 101 | 44 | 35 | 47 | - | - | - | 0 | 30 | 5- 4 | 52.1 |
| Clemson 201 | 23 | 31 | 44 | - | - | - | 2 | 25 | 5- 4 | 54.0 |
| GA ANDY | 27 | 31 | 44 | 1,276 | - | - | 0 | 28 | 4-29 | 55.6 |
| Florida 302 | 28 | 28 | 43 | - | - | - | 3 | 28 | 5- 1 | 53.5 |
| Northrup King Coker 9134 | 48 | - | - | - | - | - | 0 | 28 | 4-30 | 54.9 |
| Northrup King Coker 9835 | 38 | - | - | - | - | - | 2 | 24 | 5- 1 | 54.3 |
| GA Dozier | 37 | 35 | - | 2,332 | 2,161 | - | 0 | 27 | 4-30 | 55.5 |
| Morey | 29 | 35 | - | 1,665 | 1,935 | - | 0 | 29 | 4-30 | 51.2 |
| Pioneer 2691 | 29 | 37 | - | - | - | - | 3 | 25 | 4-29 | 53.8 |
| GA Stuckey | 27 | 32 | - | 2,110 | 2,259 | - | 0 | 24 | 4-28 | 54.5 |
| Florida 304 | 24 | 32 | - | 1,610 | 2,106 | 2,419 | 2 | 28 | 5- 4 | 55.0 |
| FL 85238-G585 | 23 | - | - | 1,335 | - | - | 0 | 27 | 5- 4 | 54.5 |
| Hazen | - | - | - | 2,396 | 2,122 | - | - | - | - | - |
| AR 26158-4..... | - | - | - | 1,864 | - | - | - | - | - | - |
| Test Mean | 36 | 36 | 50 | 1,942 | 2,127 | 2,395 | 1 | 27 | - | 54.6 |
| L.S.D. (.10)..... | 12 | 10 | 9 | 296 | 351 | 339 | - | - | - | - |
| C.V. (%)..... | 25 | 21 | 14 | 11 | 12 | 10 | - | - | - | - |
| Oats | | | | | | | | | | |
| Simpson..... | 44 | 45 | 71 | - | - | - | 0 | 29 | 5- 5 | 31.3 |
| Ozark..... | 46 | 47 | 67 | 2,780 | 2,188 | 2,417 | 3 | 29 | 5- 5 | 33.2 |
| Northrup King Coker 716. | 44 | 43 | 65 | - | - | - | 3 | 29 | 5- 4 | 31.9 |
| Ga Mitchell..... | 19 | 30 | 56 | 1,891 | - | - | 0 | 23 | 5- 6 | 18.2 |
| FL 874-E55..... | 38 | 40 | - | 2,222 | 1,937 | - | 0 | 23 | 5- 1 | 17.1 |
| Harrison | 30 | - | - | 2,526 | - | - | 0 | 30 | 5- 2 | 34.2 |
| Citation | - | - | - | 1,914 | 1,774 | 2,089 | - | - | - | - |
| Florida 501 | - | - | - | 1,753 | 1,559 | 1,951 | - | - | - | 2.0 |
| Florida 502 | - | - | - | 1,666 | 1,529 | 1,857 | - | - | - | 2.0 |
| Iapar 61 | - | - | - | - | - | - | - | - | - | 3.7 |
| Test Mean | 37 | 41 | 65 | 2,107 | 1,797 | 2,078 | 1 | 27 | - | 19.3 |
| L.S.D. (.10)..... | 12 | 10 | 15 | 349 | 514 | 457 | - | - | - | - |
| C.V. (%)..... | 22 | 18 | 17 | 12 | 21 | 16 | - | - | - | - |

Continued

TABLE 2. CHARACTERISTICS OF SMALL GRAINS TESTED IN NORTHERN ALABAMA, 3-YEAR SUMMARY

Continued

| Brand-Variety | Average Yield/Acre | | | Average Yield/Acre | | | 1996 Average | | | |
|-------------------------|--------------------|-------|-------|--------------------|-------|-------|--------------|------------|------------------|------------------|
| | Grain Only | | | Forage Only | | | Lodging Pct. | Height In. | 1/10 Date Headed | Test Wt. Lb./Bu. |
| | 1996 | 2-Yr. | 3-Yr. | 1996 | 2-Yr. | 3-Yr. | | | | |
| | Bu. | Bu. | Bu. | Lb. | Lb. | Lb. | | | | |
| Barley | | | | | | | | | | |
| Pamunkey..... | 33 | 49 | 61 | 2,571 | 2,639 | 2,889 | 12 | 24 | 4-24 | 42.5 |
| Nomini | 40 | 43 | 59 | 2,456 | 2,376 | 2,601 | 9 | 29 | 4- 6 | 42.5 |
| Starling | 37 | 42 | 59 | 2,680 | 2,436 | 2,689 | 12 | 25 | 4-25 | 40.8 |
| Venus | 35 | - | - | 2,390 | - | - | 18 | 22 | 4-24 | 44.6 |
| GA Luttrell | 34 | 53 | - | 2,525 | - | - | 8 | 26 | 4-23 | 39.9 |
| Callao | 33 | 50 | - | 2,514 | - | - | 18 | 20 | 4-23 | 44.5 |
| Test Mean | 35 | 47 | 60 | 2,523 | 2,484 | 2,727 | 12 | 24 | - | 42.5 |
| L.S.D. (.10) | 14 | 16 | 15 | 355 | 428 | 403 | - | - | - | - |
| C.V. (%) | 28 | 24 | 18 | 10 | 13 | 11 | - | - | - | - |
| Rye | | | | | | | | | | |
| Wintergrazer 70..... | - | - | - | 4,225 | 3,818 | 3,709 | - | - | - | - |
| Bonel | - | - | - | 4,113 | 3,569 | 3,631 | - | - | - | - |
| AFC 20-20..... | - | - | - | 3,914 | 3,730 | 3,601 | - | - | - | - |
| Wren's Abruzzi AL | - | - | - | 2,398 | 2,791 | 2,940 | - | - | - | - |
| Florida 401 | - | - | - | 1,823 | 2,392 | 2,486 | - | - | - | - |
| Maton | - | - | - | 4,715 | 3,845 | - | - | - | - | - |
| Oklon | - | - | - | 4,184 | 4,019 | - | - | - | - | - |
| GA WACL-7..... | - | - | - | 3,036 | 3,302 | - | - | - | - | - |
| Test Mean | - | - | - | 3,551 | 3,433 | 3,273 | - | - | - | - |
| L.S.D. (.10)..... | - | - | - | 485 | 580 | 497 | - | - | - | - |
| C.V. (%)..... | - | - | - | 10 | 12 | 11 | - | - | - | - |
| Triticale | | | | | | | | | | |
| Sunland | 22 | 42 | 54 | 1,178 | 1,844 | - | 4 | 29 | 4-27 | 26.9 |
| Trical 498 | 38 | 45 | - | - | - | - | 0 | 33 | 4-27 | 45.6 |
| Trical 2700 | - | - | - | 3,148 | 2,963 | - | - | - | - | - |
| Test Mean | 30 | 43 | 54 | 2,163 | 2,403 | - | 2 | 31 | - | 36.2 |
| L.S.D. (.10)..... | 11 | 9 | - | 137 | 325 | - | - | - | - | - |
| C.V. (%)..... | 22 | 14 | - | 4 | 9 | - | - | - | - | - |

* Grain yields are from Belle Mina and Crossville only.

TABLE 3. PERFORMANCE OF SMALL GRAINS AT BELLE MINA, ALABAMA, 1996

| Brand-Variety | Grain Only Yield/Acre | | Forage Only Yield/Acre | | |
|---------------------------|-------------------------|---------|------------------------|-----------|-------|
| | 1996 Test Wt. 3-Yr. Av. | | 1996 | 3-Yr. Av. | |
| | Bu. | Lb./Bu. | Bu. | Lb. | Lb. |
| Wheat | | | | | |
| Pioneer 2566..... | 56 | 54.1 | 64 | - | - |
| Northrup King Coker 9134. | 43 | 51.9 | - | - | - |
| Pioneer 2628..... | 42 | 53.4 | 57 | - | - |
| Pioneer 2580..... | 41 | 53.5 | 56 | - | - |
| Terral 101..... | 37 | 48.5 | 45 | - | - |
| GA GORE..... | 32 | 52.8 | 52 | 3,440 | - |
| Wakefield..... | 32 | 52.3 | 46 | 4,051 | 3,175 |
| Jackson..... | 30 | 53.1 | 50 | 3,782 | 2,983 |
| Madison..... | 29 | 51.2 | 49 | 4,439 | 3,025 |
| GA Dozier..... | 25 | 52.6 | - | 3,831 | - |
| Morey..... | 24 | 45.7 | - | 3,098 | - |
| Pioneer 2684..... | 23 | 56.1 | 51 | - | - |
| Northrup King Coker 9835. | 21 | 51.0 | - | - | - |
| Pioneer 2691..... | 15 | 51.2 | - | - | - |
| GA ANDY..... | 14 | 53.1 | 47 | 2,626 | - |
| Pioneer 2643..... | 14 | 52.8 | 55 | - | - |
| Florida 304..... | 13 | 52.5 | - | 3,178 | 2,977 |
| GA Stuckey..... | 9 | 52.0 | - | 3,866 | - |
| FL 85238-G585..... | 7 | 51.0 | - | 2,491 | - |
| Florida 302..... | 5 | 49.6 | 36 | - | - |
| Clemson 201..... | 5 | 51.2 | 42 | - | - |
| Hazen..... | - | - | - | 4,014 | - |
| AR 26158-4..... | - | - | - | 3,470 | - |
| Test Mean..... | 25 | 51.9 | 50 | 3,524 | 3,040 |
| L.S.D. (.10)..... | 17 | - | 12 | 368 | 297 |
| C.V. (%)..... | 50 | - | 18 | 7 | 7 |
| Oats | | | | | |
| Ozark..... | 22 | 31.6 | 59 | 5,269 | 3,540 |
| Simpson..... | 18 | 28.7 | 66 | - | - |
| Northrup King Coker 716.. | 15 | 30.2 | 58 | - | - |
| Harrison | 10 | 31.4 | - | 4,357 | - |
| FL 874-E55 | 4 | - | - | 3,771 | - |
| Ga Mitchell..... | 4 | - | 54 | 2,998 | - |
| Citation | - | - | - | 4,136 | 2,736 |
| Florida 501..... | - | - | - | 1,753 | 1,636 |
| Florida 502..... | - | - | - | 1,666 | 1,685 |
| Iapar 61..... | - | - | - | - | - |
| Test Mean..... | 12 | 30.5 | 59 | 3,421 | 2,399 |
| L.S.D. (.10)..... | 18 | - | 21 | 382 | 298 |
| C.V. (%)..... | 28 | - | 26 | 8 | 9 |

Continued

TABLE 3. PERFORMANCE OF SMALL GRAINS AT BELLE MINA, ALABAMA, 1996

Continued

| Brand-Variety | Grain Only Yield/Acre | | Forage Only Yield/Acre | | |
|------------------------|-------------------------|---------|------------------------|-----------|-------|
| | 1996 Test Wt. 3-Yr. Av. | | 1996 | 3-Yr. Av. | |
| | Bu. | Lb./Bu. | Bu. | Lb. | Lb. |
| Barley | | | | | |
| Nomini..... | 24 | 42.0 | 59 | 4,421 | 3,533 |
| Pamunkey..... | 13 | 41.5 | 66 | 4,789 | 3,918 |
| Venus..... | 11 | 43.4 | - | 4,259 | - |
| Starling..... | 10 | 40.4 | 58 | 4,961 | 3,669 |
| Callao..... | 7 | 43.6 | - | 4,536 | - |
| GA Luttrell..... | 6 | 39.8 | - | 4,391 | - |
| Test Mean..... | 12 | 41.8 | 61 | 4,559 | 3,707 |
| L.S.D. (.10)..... | 29 | - | 20 | 398 | 341 |
| C.V. (%)..... | - | - | 23 | 6 | 7 |
| Rye | | | | | |
| Maton..... | - | - | - | 5,630 | - |
| Bonel..... | - | - | - | 5,492 | 4,519 |
| Oklon..... | - | - | - | 5,410 | - |
| Wintergrazer 70..... | - | - | - | 5,324 | 4,432 |
| AFC 20-20..... | - | - | - | 5,287 | 4,392 |
| GA WACL-7..... | - | - | - | 4,415 | - |
| Wren's Abruzzi AL..... | - | - | - | 4,067 | 3,865 |
| Florida 401..... | - | - | - | 3,226 | 2,907 |
| Test Mean..... | - | - | - | 4,856 | 4,023 |
| L.S.D. (.10)..... | - | - | - | 413 | 384 |
| C.V. (%)..... | - | - | - | 6 | 7 |
| Triticale | | | | | |
| Trical 498..... | 24 | 44.4 | - | - | - |
| Sunland..... | 6 | - | 60 | 2,167 | - |
| Trical 2700..... | - | - | - | 5,424 | - |
| Test Mean..... | 15 | 44.4 | 60 | 3,796 | - |
| L.S.D. (.10)..... | 21 | - | 12 | 212 | - |
| C.V. (%)..... | 60 | - | 13 | 2 | - |

TABLE 4. PERFORMANCE OF SMALL GRAINS AT CROSSVILLE, ALABAMA, 1996

| Brand-Variety | Grain Only Yield/Acre | | Forage Only Yield/Acre | | |
|---------------------------|-------------------------|---------|------------------------|-----------|-------|
| | 1996 Test Wt. 3-Yr. Av. | | 1996 | 3-Yr. Av. | |
| | Bu. | Lb./Bu. | Bu. | Lb. | Lb. |
| Wheat | | | | | |
| Pioneer 2566..... | 55 | 57.2 | 52 | - | - |
| Northrup King Coker 9835. | 55 | 57.5 | - | - | - |
| Pioneer 2580..... | 54 | 56.3 | 54 | - | - |
| Jackson..... | 54 | 58.0 | 54 | 1,253 | 2,001 |
| Northrup King Coker 9134. | 53 | 57.8 | - | - | - |
| Madison..... | 52 | 55.7 | 50 | 1,179 | 1,584 |
| Pioneer 2684..... | 52 | 60.0 | 50 | - | - |
| Terral 101..... | 51 | 55.7 | 48 | - | - |
| Florida 302..... | 50 | 57.3 | 50 | - | - |
| Pioneer 2628..... | 49 | 58.1 | 50 | - | - |
| GA Dozier..... | 49 | 58.3 | - | 1,235 | - |
| GA GORE..... | 47 | 57.7 | 49 | 960 | - |
| Wakefield..... | 45 | 57.1 | 48 | 1,314 | 1,739 |
| GA Stuckey..... | 44 | 56.9 | - | 1,252 | - |
| Pioneer 2691..... | 44 | 56.3 | - | - | - |
| Pioneer 2643..... | 43 | 58.3 | 49 | - | - |
| Clemson 201..... | 42 | 56.8 | 46 | - | - |
| GA ANDY..... | 40 | 58.1 | 41 | 507 | - |
| FL 85238-G585..... | 38 | 57.9 | - | 732 | - |
| Florida 304..... | 36 | 57.5 | - | 676 | 1,761 |
| Morey..... | 35 | 56.6 | - | 1,077 | - |
| Hazen..... | - | - | - | 1,386 | - |
| AR 26158-4 | - | - | - | 937 | - |
| Test Mean..... | 47 | 57.4 | 49 | 1,042 | 1,771 |
| L.S.D. (.10)..... | 5 | - | 5 | 214 | 292 |
| C.V. (%)..... | 8 | - | 7 | 15 | 12 |
| Oats | | | | | |
| Northrup King Coker 716.. | 74 | 33.5 | 72 | - | - |
| FL 874-E55..... | 71 | 33.2 | - | 1,383 | - |
| Ozark..... | 70 | 34.8 | 74 | 1,326 | 1,214 |
| Simpson..... | 69 | 33.8 | 77 | - | - |
| Harrison..... | 51 | 36.9 | - | 1,674 | - |
| Ga Mitchell..... | 34 | 35.3 | 57 | - | - |
| Citation..... | - | - | - | 864 | 1,184 |
| Florida 501..... | - | - | - | - | - |
| Florida 502..... | - | - | - | - | - |
| Iapar 61..... | - | - | - | - | - |
| Test Mean..... | 62 | 34.6 | 70 | 1,312 | 1,199 |
| L.S.D. (.10)..... | 12 | - | 8 | 241 | 293 |
| C.V. (%)..... | 14 | - | 9 | 11 | 18 |

Continued

TABLE 4. PERFORMANCE OF SMALL GRAINS AT CROSSVILLE, ALABAMA, 1996

Continued

| Brand-Variety | Grain Only Yield/Acre | | Forage Only Yield/Acre | | |
|------------------------|-------------------------|---------|------------------------|-----------|-------|
| | 1996 Test Wt. 3-Yr. Av. | | 1996 | 3-Yr. Av. | |
| | Bu. | Lb./Bu. | Bu. | Lb. | Lb. |
| Barley | | | | | |
| Starling..... | 65 | 41.2 | 60 | 1,300 | 1,715 |
| GA Luttrell..... | 61 | 40.0 | - | 1,563 | - |
| Callao..... | 59 | 45.3 | - | 1,417 | - |
| Venus..... | 58 | 45.8 | - | 1,244 | - |
| Nomini..... | 57 | 43.0 | 60 | 1,304 | 1,663 |
| Pamunkey..... | 53 | 43.4 | 56 | 1,470 | 1,966 |
| Test Mean..... | 59 | 43.1 | 59 | 1,383 | 1,781 |
| L.S.D. (.10)..... | 11 | - | 9 | 275 | 256 |
| C.V. (%)..... | 13 | - | 12 | 13 | 10 |
| Rye | | | | | |
| Wintergrazer 70..... | - | - | - | 2,621 | 2,779 |
| Maton..... | - | - | - | 2,541 | - |
| AFC 20-20..... | - | - | - | 2,373 | 2,569 |
| Oklon..... | - | - | - | 2,325 | - |
| Bonel..... | - | - | - | 2,234 | 2,484 |
| GA WACL-7..... | - | - | - | 1,968 | - |
| Florida 401..... | - | - | - | 1,209 | 2,028 |
| Wren's Abruzzi AL..... | - | - | - | 1,102 | 2,075 |
| Test Mean..... | - | - | - | 2,047 | 2,387 |
| L.S.D. (.10)..... | - | - | - | 261 | 359 |
| C.V. (%)..... | - | - | - | 9 | 11 |
| Triticale | | | | | |
| Trical 498..... | 53 | 46.8 | - | - | - |
| Sunland..... | 37 | 52.7 | 47 | 749 | - |
| Trical 2700..... | - | - | - | 1,605 | - |
| Test Mean..... | 45 | 49.8 | 47 | 1,177 | - |
| L.S.D. (.10)..... | 5 | - | - | 161 | - |
| C.V. (%)..... | 5 | - | - | 6 | - |

TABLE 5. PERFORMANCE OF SMALL GRAINS AT WINFIELD, ALABAMA, 1996

| Brand-Variety | Grain Only Yield/Acre | | Forage Only Yield/Acre | | |
|---------------------------|-------------------------|---------|------------------------|-----------|-------|
| | 1996 Test Wt. 3-Yr. Av. | | 1996 | 3-Yr. Av. | |
| | Bu. | Lb./Bu. | Bu. | Lb. | Lb. |
| Wheat | | | | | |
| Pioneer 2628..... | 81 | 53.2 | - | - | - |
| Madison..... | 78 | 54.0 | 44 | 1,339 | 2,358 |
| Jackson | 77 | 55.5 | - | 1,757 | 2,711 |
| Pioneer 2566..... | 72 | 51.1 | 47 | - | - |
| Northrup King Coker 9134. | 71 | 52.6 | - | - | - |
| Northrup King Coker 9835. | 68 | 51.1 | - | - | - |
| GA Dozier..... | 66 | 54.6 | - | 1,930 | - |
| Wakefield..... | 65 | 53.8 | 50 | 1,428 | - |
| Pioneer 2684..... | 65 | 53.6 | 49 | - | - |
| Pioneer 2580..... | 64 | 51.8 | 49 | - | - |
| Terral 101..... | 62 | 52.2 | 45 | - | - |
| Florida 302..... | 60 | 53.0 | 45 | - | - |
| GA ANDY..... | 56 | 52.2 | 43 | 695 | - |
| GA Stuckey..... | 54 | 51.5 | - | 1,212 | - |
| Pioneer 2643..... | 53 | 52.4 | - | - | - |
| GA GORE..... | 51 | 51.6 | 38 | 1,187 | - |
| FL 85238-G585..... | 45 | 51.0 | - | 782 | - |
| Florida 304..... | 43 | 51.2 | - | 977 | 2,519 |
| Pioneer 2691..... | 41 | 49.0 | - | - | - |
| Morey..... | 34 | 49.6 | - | 820 | - |
| Clemson 201..... | 28 | 47.6 | 41 | - | - |
| Hazen..... | - | - | - | 1,788 | - |
| AR 26158-4..... | - | - | - | 1,186 | - |
| Test Mean..... | 59 | 52.0 | 45 | 1,258 | 2,530 |
| L.S.D. (.10)..... | 11 | - | 13 | 314 | 427 |
| C.V. (%)..... | 14 | - | 22 | 18 | 12 |
| Oats | | | | | |
| Simpson..... | 111 | 34.5 | 54 | - | - |
| Northrup King Coker 716. | 110 | 34.4 | 55 | - | - |
| Ozark..... | 91 | 35.5 | 42 | 1,745 | 2,496 |
| Harrison..... | 69 | 36.7 | - | 1,546 | - |
| FL 874-E55..... | 66 | 34.4 | - | 1,512 | - |
| Ga Mitchell..... | 48 | 34.7 | 34 | 785 | - |
| Citation..... | - | - | - | 741 | 2,346 |
| Florida 501..... | - | - | - | - | - |
| Florida 502..... | - | - | - | - | - |
| Iapar 61..... | - | - | - | - | - |
| Test Mean..... | 83 | 35.0 | 46 | 1,266 | 2,421 |
| L.S.D. (.10)..... | 11 | - | 8 | 456 | 699 |
| C.V. (%)..... | 9 | - | 13 | 23 | 21 |

Continued

TABLE 5. PERFORMANCE OF SMALL GRAINS AT WINFIELD, ALABAMA, 1996

Continued

| Brand-Variety | Grain Only Yield/Acre | | | Forage Only Yield/Acre | |
|------------------------|-----------------------|-----------|----|------------------------|-----------|
| | 1996 Test Wt. | 3-Yr. Av. | | 1996 | 3-Yr. Av. |
| | Bu. Lb./Bu. | Bu. | | Lb. | Lb. |
| Barley | | | | | |
| GA Luttrell..... | 81 | 41.1 | - | 1,622 | - |
| Pamunkey..... | 75 | 47.2 | - | 1,455 | 2,784 |
| Venus..... | 58 | 46.9 | - | 1,669 | - |
| Callao..... | 58 | 46.1 | - | 1,588 | - |
| Starling..... | 45 | 43.7 | - | 1,778 | 2,685 |
| Nomini..... | 39 | 43.6 | 32 | 1,642 | 2,609 |
| Test Mean..... | 59 | 44.8 | 32 | 1,626 | 2,692 |
| L.S.D. (.10)..... | 13 | - | - | 444 | 577 |
| C.V. (%)..... | 14 | - | - | 18 | 15 |
| Rye | | | | | |
| Maton..... | - | - | - | 5,975 | - |
| Oklon..... | - | - | - | 4,816 | - |
| Wintergrazer 70..... | - | - | - | 4,729 | 3,917 |
| Bonel..... | - | - | - | 4,612 | 3,889 |
| AFC 20-20..... | - | - | - | 4,083 | 3,843 |
| GA WACL-7..... | - | - | - | 2,725 | - |
| Wren's Abruzzi AL..... | - | - | - | 2,025 | 2,882 |
| Florida 401..... | - | - | - | 1,036 | 2,522 |
| Test Mean..... | - | - | - | 3,750 | 3,411 |
| L.S.D. (.10)..... | - | - | - | 732 | 705 |
| C.V. (%)..... | - | - | - | 14 | 15 |
| Triticale | | | | | |
| Trical 498..... | 32 | 43.0 | - | - | - |
| Trical 2700..... | - | - | - | 2,415 | - |
| Sunland..... | - | 43.6 | - | 617 | - |
| Test Mean..... | 32 | 43.3 | - | 1,516 | - |
| L.S.D. (.10)..... | - | - | - | - | - |
| C.V. (%)..... | - | - | - | - | - |

Grain only 3-yr. Av. based on 1993, 1995 & 1996.

TABLE 6. CHARACTERISTICS OF SMALL GRAINS TESTED IN CENTRAL ALABAMA, 3-YEAR SUMMARY

| Brand-Variety | Average Yield/Acre Grain Only | | | Average Yield/Acre Forage Only | | | 1996 Average Lodging Height 1/10 Test Wt. | | | |
|---------------------------|----------------------------------|-------|-------|-----------------------------------|-------|-------|--|-----|------|---------|
| | 1996 | 2-Yr. | 3-Yr. | 1996 | 2-Yr. | 3-Yr. | Pct. | In. | Date | Headed |
| | Bu. | Bu. | Bu. | Lb. | Lb. | Lb. | | | | Lb./Bu. |
| Wheat | | | | | | | | | | |
| Pioneer 2566..... | 79 | 63 | 65 | - | - | - | 0 | 37 | 4-16 | 53.4 |
| Pioneer 2643..... | 67 | 62 | 65 | - | - | - | 1 | 31 | 4-16 | 53.7 |
| Jackson..... | 81 | 63 | 65 | 2,872 | 3,352 | 3,409 | 18 | 37 | 4-18 | 54.5 |
| Pioneer 2628..... | 78 | 61 | 64 | - | - | - | 1 | 36 | 4-16 | 55.1 |
| Wakefield..... | 78 | 59 | 63 | 2,741 | 3,289 | 3,335 | 4 | 38 | 4-20 | 53.3 |
| Madison..... | 67 | 56 | 60 | 2,686 | 3,180 | 3,216 | 13 | 32 | 4-16 | 53.4 |
| GA GORE..... | 60 | 54 | 57 | 2,732 | - | - | 22 | 35 | 4-15 | 52.7 |
| Florida 302..... | 61 | 51 | 56 | - | - | - | 22 | 36 | 4-16 | 47.8 |
| Clemson 201..... | 45 | 51 | 56 | - | - | - | 12 | 30 | 4-17 | 52.8 |
| Florida 304..... | 54 | 48 | 54 | 2,406 | 3,047 | 3,252 | 12 | 34 | 4-19 | 53.5 |
| GA ANDY..... | 44 | 43 | 50 | 1,456 | - | - | 1 | 32 | 4-18 | 52.4 |
| GA Dozier..... | 77 | 62 | - | 2,726 | 3,454 | - | 11 | 33 | 4-17 | 54.5 |
| Pioneer 2684..... | 69 | - | - | - | - | - | 1 | 33 | 4-14 | 55.1 |
| Northrup King Coker 9835. | 62 | 56 | - | - | - | - | 11 | 29 | 4-16 | 52.3 |
| Pioneer 2691..... | 52 | 54 | - | - | - | - | 13 | 29 | 4-12 | 52.7 |
| GA Stuckey..... | 45 | 46 | - | 2,655 | 3,354 | - | 43 | 29 | 4-14 | 50.6 |
| FL 85238-G585..... | 45 | - | - | 1,156 | - | - | 2 | 32 | 4-20 | 53.1 |
| Morey..... | 44 | 49 | - | 1,493 | 2,568 | - | 2 | 31 | 4-18 | 51.0 |
| Hazen..... | - | - | - | 2,788 | 3,236 | - | - | - | - | - |
| AR 26158-4..... | - | - | - | 2,333 | - | - | - | - | - | - |
| Test..... | - | - | - | 1,833 | - | - | - | - | - | - |
| Test Mean..... | 62 | 55 | 60 | 2,298 | 3,185 | 3,303 | 10 | 33 | - | 52.9 |
| L.S.D. (.10)..... | 9 | 8 | 8 | 766 | 654 | 596 | - | - | - | - |
| C.V. (%)..... | 11 | 10 | 10 | 24 | 15 | 13 | - | - | - | - |
| Oats | | | | | | | | | | |
| Ozark..... | 105 | 77 | 84 | 2,143 | 2,673 | 2,961 | 22 | 41 | 4-23 | 35.1 |
| Simpson..... | 112 | 77 | 84 | - | - | - | 16 | 40 | 4-23 | 33.8 |
| Citation..... | 86 | 73 | 81 | 1,980 | 2,846 | 3,147 | 41 | 39 | 4-22 | 33.8 |
| Ga Mitchell..... | 85 | 72 | 80 | 1,808 | - | - | 2 | 34 | 4-24 | 35.1 |
| Florida 501..... | 62 | 55 | 65 | 1,813 | 2,647 | 2,949 | 43 | 35 | 4-23 | 32.8 |
| Florida 502..... | 41 | 47 | 60 | 854 | 2,314 | 2,669 | 6 | 33 | 4-24 | 32.5 |
| FL 874-E55..... | 95 | 86 | - | 2,070 | 2,765 | - | 3 | 34 | 4-22 | 30.1 |
| Harrison..... | 85 | - | - | 2,295 | - | - | 3 | 42 | 4-24 | 34.1 |
| Iapar 61..... | - | - | - | 304 | 1,509 | - | - | - | - | - |
| Test Mean..... | 84 | 69 | 76 | 1,658 | 2,459 | 2,932 | 17 | 37 | - | 33.4 |
| L.S.D. (.10)..... | 16 | 15 | 14 | 332 | 467 | 538 | - | - | - | - |
| C.V. (%)..... | 14 | 15 | 14 | 15 | 14 | 14 | - | - | - | - |

Continued

TABLE 6. CHARACTERISTICS OF SMALL GRAINS TESTED IN CENTRAL ALABAMA, 3-YEAR SUMMARY

Continued

| Brand-Variety | Average Yield/Acre | | | Average Yield/Acre | | | 1996 Average | | | Test Wt. Lb./Bu. |
|-------------------------|--------------------|-------|-------|--------------------|-------|-------|----------------|------|----------|---------------------|
| | Grain Only | | | Forage Only | | | Lodging Height | 1/10 | Test Wt. | |
| | 1996 | 2-Yr. | 3-Yr. | 1996 | 2-Yr. | 3-Yr. | Pct. | In. | Date | |
| | Bu. | Bu. | Bu. | Lb. | Lb. | Lb. | | | | |
| Rye | | | | | | | | | | |
| Wintergrazer 70..... | - | - | - | 4,296 | 4,407 | 4,287 | - | - | - | - |
| Bonel..... | - | - | - | 4,011 | 4,176 | 4,032 | - | - | - | - |
| Wren's Abruzzi AL..... | - | - | - | 2,991 | 3,720 | 3,961 | - | - | - | - |
| Florida 401..... | - | - | - | 2,810 | 3,429 | 3,612 | - | - | - | - |
| Maton..... | - | - | - | 4,399 | 4,473 | - | - | - | - | - |
| Gurley Grazer 2000..... | - | - | - | 4,167 | 4,181 | - | - | - | - | - |
| Oklon..... | - | - | - | 3,957 | 4,179 | - | - | - | - | - |
| GA WACL-7..... | - | - | - | 3,517 | 4,010 | - | - | - | - | - |
| Test Mean..... | - | - | - | 3,768 | 4,072 | 3,973 | - | - | - | - |
| L.S.D. (.10)..... | - | - | - | 409 | 497 | 557 | - | - | - | - |
| C.V. (%)..... | - | - | - | 8 | 9 | 10 | - | - | - | - |
| Triticale | | | | | | | | | | |
| Sunland..... | 36 | 45 | 51 | 1,457 | 2,675 | - | 1 | 32 | 4-13 | 47.9 |
| Trical 498..... | 42 | 54 | - | - | - | - | 0 | 35 | 4-17 | 42.6 |
| Trical 2700..... | - | - | - | 2,663 | 3,259 | - | - | - | - | - |
| Test Mean..... | 39 | 49 | 51 | 2,060 | 2,967 | - | 0 | 34 | - | 45.3 |
| L.S.D. (.10)..... | 8 | 7 | - | 336 | 491 | - | - | - | - | - |
| C.V. (%)..... | 14 | 10 | - | 10 | 11 | - | - | - | - | - |

TABLE 7. PERFORMANCE OF SMALL GRAINS AT MARION JUNCTION, ALABAMA, 1996

| Brand-Variety | Grain Only Yield/Acre | | | Forage Only Yield/Acre | |
|---------------------------|-----------------------|---------|-----------|------------------------|-----------|
| | 1996 Test Wt. | | 3-Yr. Av. | 1996 | 3-Yr. Av. |
| | Bu. | Lb./Bu. | Bu. | Lb. | Lb. |
| Wheat | | | | | |
| Pioneer 2566..... | 66 | 55.0 | 50 | - | - |
| Pioneer 2628..... | 65 | 57.8 | 53 | - | - |
| Jackson..... | 65 | 55.6 | 49 | 2,210 | 2,744 |
| GA Dozier..... | 60 | 56.4 | - | 1,817 | - |
| Wakefield..... | 58 | 55.0 | 46 | 1,995 | 2,644 |
| Pioneer 2643..... | 52 | 55.6 | 48 | - | - |
| GA GORE..... | 52 | 55.0 | 43 | 1,981 | - |
| Florida 302..... | 52 | 41.2 | 41 | - | - |
| Madison..... | 51 | 53.4 | 47 | 2,007 | 2,530 |
| Northrup King Coker 9835. | 49 | 53.4 | - | - | - |
| Pioneer 2684..... | 46 | 56.2 | - | - | - |
| Florida 304..... | 37 | 55.6 | 39 | 1,811 | 2,787 |
| FL 85238-G585..... | 36 | 55.4 | - | 1,810 | - |
| Pioneer 2691..... | 34 | 53.2 | - | - | - |
| GA Stuckey..... | 34 | 53.4 | - | 1,926 | - |
| Morey..... | 29 | 53.0 | - | 1,812 | - |
| GA ANDY..... | 28 | 53.8 | 39 | 1,879 | - |
| Clemson 201..... | 21 | 53.6 | 35 | - | - |
| Hazen..... | - | - | - | 1,892 | - |
| Test..... | - | - | - | 1,833 | - |
| AR 26158-4..... | - | - | - | 1,625 | - |
| Test Mean..... | 46 | 54.0 | 45 | 1,892 | 2,676 |
| L.S.D. (.10)..... | 5 | - | 6 | 257 | 422 |
| C.V. (%)..... | 8 | - | 9 | 10 | 12 |
| Oats | | | | | |
| Simpson..... | 67 | 32.6 | 60 | - | - |
| Ozark..... | 67 | 34.0 | 55 | 1,962 | 2,615 |
| Harrison..... | 60 | 34.8 | - | 2,002 | - |
| FL 874-E55..... | 57 | 28.8 | - | 1,857 | - |
| Citation..... | 56 | 32.2 | 47 | 1,762 | 2,958 |
| Ga Mitchell..... | 45 | 32.8 | 44 | 1,571 | - |
| Florida 501..... | 28 | 29.8 | 34 | - | - |
| Florida 502..... | 14 | - | 39 | - | - |
| Iapar 61..... | - | - | - | - | - |
| Test Mean..... | 49 | 32.1 | 47 | 1,831 | 2,786 |
| L.S.D. (.10)..... | 19 | - | 12 | 290 | 360 |
| C.V. (%)..... | 27 | - | 19 | 10 | 9 |
| Rye | | | | | |
| Maton..... | - | - | - | 2,274 | - |
| Gurley Grazer 2000..... | - | - | - | 2,247 | - |
| Wintergrazer 70..... | - | - | - | 2,076 | 2,981 |
| Florida 401..... | - | - | - | 1,954 | 3,176 |
| Bonel..... | - | - | - | 1,856 | 2,812 |
| Wren's Abruzzi AL..... | - | - | - | 1,736 | 3,354 |
| GA WACL-7..... | - | - | - | 1,733 | - |
| Oklon..... | - | - | - | 1,622 | - |
| Test Mean..... | - | - | - | 1,937 | 3,081 |
| L.S.D. (.10)..... | - | - | - | 230 | 464 |
| C.V. (%)..... | - | - | - | 8 | 11 |
| Triticale | | | | | |
| Trical 498..... | 17 | 45.4 | - | - | - |
| Sunland..... | 8 | 48.4 | 28 | 1,953 | - |
| Trical 2700..... | - | - | - | 1,839 | - |
| Test Mean..... | 13 | 46.9 | 28 | 1,896 | - |
| L.S.D. (.10)..... | 1 | - | - | 541 | - |
| C.V. (%)..... | 2 | - | - | 12 | - |

Table 8. Performance of Small Grains at Prattville, Alabama, 1996

| Brand-Variety | Grain Only Yield/Acre | | Forage Only Yield/Acre | | |
|---------------------------|-------------------------|---------|------------------------|-----------|-------|
| | 1996 Test Wt. 3-Yr. Av. | | 1996 | 3-Yr. Av. | |
| | Bu. | Lb./Bu. | Bu. | Lb. | Lb. |
| Wheat | | | | | |
| Wakefield..... | 84 | 53.6 | 66 | 1,671 | 3,208 |
| Northrup King Coker 9835. | 81 | 51.6 | - | - | - |
| Jackson..... | 81 | 54.3 | 68 | 2,146 | 3,420 |
| GA Dozier..... | 81 | 53.2 | - | 2,287 | - |
| Pioneer 2566..... | 77 | 52.4 | 70 | - | - |
| Pioneer 2628..... | 76 | 54.1 | 68 | - | - |
| Florida 302..... | 75 | 52.6 | 62 | - | - |
| Madison..... | 74 | 53.6 | 65 | 2,067 | 3,222 |
| Pioneer 2684..... | 74 | 52.3 | - | - | - |
| Pioneer 2643..... | 66 | 52.7 | 72 | - | - |
| FL 85238-G585..... | 63 | 51.8 | - | 735 | - |
| Florida 304..... | 61 | 51.1 | 60 | 1,931 | 3,228 |
| Pioneer 2691..... | 59 | 50.9 | - | - | - |
| Clemson 201..... | 57 | 51.9 | 65 | - | - |
| GA ANDY..... | 57 | 50.0 | 59 | 1,146 | - |
| Morey..... | 53 | 48.2 | - | 1,374 | - |
| GA GORE..... | 52 | 52.2 | 60 | 2,598 | - |
| GA Stuckey..... | 51 | 48.9 | - | 2,381 | - |
| Hazen..... | - | - | - | 2,372 | - |
| AR 26158-4 | - | - | - | 1,949 | - |
| Test Mean..... | 68 | 52.0 | 65 | 1,888 | 3,269 |
| L.S.D. (.10)..... | 11 | - | 8 | 394 | 447 |
| C.V. (%)..... | 12 | - | 9 | 15 | 10 |
| Oats | | | | | |
| FL 874-E55 | 124 | 30.2 | - | 1,278 | - |
| Simpson..... | 123 | 31.2 | 102 | - | - |
| Ozark..... | 119 | 33.4 | 101 | 1,792 | 3,462 |
| Ga Mitchell..... | 111 | 33.7 | 102 | 1,166 | - |
| Citation..... | 98 | 31.6 | 98 | 1,229 | 3,382 |
| Harrison..... | 92 | 31.6 | - | 1,264 | - |
| Florida 501..... | 69 | 29.9 | 80 | 1,008 | 3,035 |
| Florida 502..... | 32 | 27.7 | 71 | 746 | 3,148 |
| Iapar 61..... | - | - | - | 178 | - |
| Test Mean..... | 96 | 31.2 | 92 | 1,083 | 3,257 |
| L.S.D. (.10)..... | 16 | - | 16 | 239 | 569 |
| C.V. (%)..... | 12 | - | 13 | 15 | 13 |
| Rye | | | | | |
| Wintergrazer 70..... | - | - | - | 4,396 | 4,730 |
| Oklon..... | - | - | - | 4,010 | - |
| Bonel..... | - | - | - | 3,989 | 4,240 |
| Maton..... | - | - | - | 3,910 | - |
| Gurley Grazer 2000..... | - | - | - | 3,622 | - |
| GA WACL-7..... | - | - | - | 2,976 | - |
| Wren's Abruzzi AL..... | - | - | - | 2,104 | 3,727 |
| Florida 401..... | - | - | - | 1,999 | 3,430 |
| Test Mean..... | - | - | - | 3,376 | 4,032 |
| L.S.D. (.10)..... | - | - | - | 507 | 535 |
| C.V. (%)..... | - | - | - | 10 | 10 |
| Triticale | | | | | |
| Trical 498..... | 61 | 39.0 | - | - | - |
| Sunland..... | 57 | 47.7 | 62 | 1,085 | - |
| Trical 2700..... | - | - | - | 1,445 | - |
| Test Mean..... | 59 | 43.4 | 62 | 1,265 | - |
| L.S.D. (.10)..... | 18 | - | - | 407 | - |
| C.V. (%)..... | 13 | - | - | 13 | - |

TABLE 9. PERFORMANCE OF SMALL GRAINS AT TALLASSEE, ALABAMA, 1996

| Brand-Variety | Grain Only Yield/Acre | | Forage Only Yield/Acre | | |
|--------------------------|-------------------------|---------|------------------------|-----------|-------|
| | 1996 Test Wt. 3-Yr. Av. | | 1996 | 3-Yr. Av. | |
| | Bu. | Lb./Bu. | Bu. | Lb. | Lb. |
| Wheat | | | | | |
| Jackson..... | 99 | 53.5 | 78 | 4,261 | 4,063 |
| Pioneer 2628..... | 94 | 53.5 | 70 | - | - |
| Pioneer 2566..... | 93 | 52.8 | 76 | - | - |
| Wakefield..... | 92 | 51.3 | 76 | 4,555 | 4,153 |
| GA Dozier..... | 91 | 53.9 | - | 4,074 | - |
| Pioneer 2684..... | 87 | 56.7 | - | - | - |
| Pioneer 2643..... | 83 | 52.7 | 76 | - | - |
| Madison..... | 76 | 53.1 | 70 | 3,983 | 3,895 |
| GA GORE..... | 76 | 51.0 | 70 | 3,619 | - |
| Florida 304..... | 64 | 53.9 | 62 | 3,477 | 3,741 |
| Pioneer 2691..... | 64 | 53.9 | - | - | - |
| Florida 302..... | 58 | 49.6 | 64 | - | - |
| Clemson 201..... | 57 | 52.8 | 68 | - | - |
| Northrup King Coker 9835 | 57 | 52.0 | - | - | - |
| GA Stuckey..... | 51 | 49.4 | - | 3,659 | - |
| Morey..... | 51 | 51.8 | - | 1,293 | - |
| GA ANDY..... | 46 | 53.4 | 53 | 1,345 | - |
| FL 85238-G585..... | 36 | 52.0 | - | 922 | - |
| Hazen..... | - | - | - | 4,101 | - |
| AR 26158-4..... | - | - | - | 3,426 | - |
| Test Mean..... | 71 | 52.6 | 69 | 3,226 | 3,963 |
| L.S.D. (.10)..... | 11 | - | 9 | 1,302 | 847 |
| C.V. (%)..... | 11 | - | 10 | 29 | 16 |
| Oats | | | | | |
| Simpson..... | 145 | 37.7 | 89 | - | - |
| Ozark..... | 131 | 38.0 | 97 | 2,674 | 2,807 |
| FL 874-E55..... | 104 | 31.4 | - | 3,076 | - |
| Harrison..... | 104 | 36.0 | - | 3,621 | - |
| Citation..... | 103 | 37.5 | 98 | 2,949 | 3,100 |
| Ga Mitchell..... | 100 | 38.7 | 94 | 2,686 | - |
| Florida 501..... | 89 | 38.7 | 80 | 2,618 | 3,162 |
| Florida 502..... | 78 | 37.2 | 69 | 962 | 2,224 |
| Iapar 61..... | - | - | - | 430 | - |
| Test Mean..... | 107 | 36.9 | 88 | 2,377 | 2,823 |
| L.S.D. (.10)..... | 17 | - | 15 | 456 | 646 |
| C.V. (%)..... | 11 | - | 12 | 13 | 17 |
| Rye | | | | | |
| Maton..... | - | - | - | 7,013 | - |
| Gurley Grazer 2000..... | - | - | - | 6,634 | - |
| Wintergrazer 70..... | - | - | - | 6,415 | 5,149 |
| Oklon..... | - | - | - | 6,239 | - |
| Bonel..... | - | - | - | 6,187 | 5,045 |
| GA WACL-7..... | - | - | - | 5,842 | - |
| Wren's Abruzzi AL..... | - | - | - | 5,133 | 4,802 |
| Florida 401..... | - | - | - | 4,478 | 4,231 |
| Test Mean..... | - | - | - | 5,993 | 4,807 |
| L.S.D. (.10)..... | - | - | - | 490 | 673 |
| C.V. (%)..... | - | - | - | 6 | 10 |
| Triticale | | | | | |
| Trical 498..... | 49 | 43.4 | - | - | - |
| Sunland..... | 44 | 47.7 | 62 | 1,332 | - |
| Trical 2700..... | - | - | - | 4,706 | - |
| Test Mean..... | 47 | 45.6 | 62 | 3,019 | - |
| L.S.D. (.10)..... | 13 | - | - | 554 | - |
| C.V. (%)..... | 12 | - | - | 8 | - |

TABLE 10. CHARACTERISTICS OF SMALL GRAINS TESTED IN REGULAR PLANTING
IN SOUTHERN ALABAMA, 3-YEAR SUMMARY

| Brand-Variety | Average Yield/Acre | | | Average Yield/Acre | | | 1996 | | Average | |
|--------------------------|--------------------|-------|--------|--------------------|-------|-------|----------------|------|----------|--------|
| | Grain Only | | | Forage Only | | | Lodging Height | 1/10 | Test Wt. | |
| | 1996 | 2-Yr. | 3-Yr.* | 1996 | 2-Yr. | 3-Yr. | | | | Headed |
| Bu. | Bu. | Bu. | Lb. | Lb. | Lb. | Pct. | In. | Date | Lb./Bu. | |
| Wheat | | | | | | | | | | |
| Pioneer 2643..... | 49 | 46 | 55 | - | - | - | 0 | 30 | 4- 8 | 53.7 |
| Wakefield..... | 55 | 40 | 50 | 4,318 | 4,525 | 4,779 | 0 | 39 | 4-12 | 52.6 |
| Pioneer 2628..... | 54 | 37 | 47 | - | - | - | 0 | 36 | 4-11 | 54.9 |
| Madison..... | 42 | 37 | 47 | 3,825 | 4,290 | 4,536 | 0 | 33 | 4- 6 | 53.1 |
| Pioneer 2566..... | 40 | 36 | 46 | - | - | - | 0 | 38 | 4-12 | 52.5 |
| GA GORE..... | 38 | 38 | 45 | 4,127 | - | - | 0 | 35 | 4- 6 | 49.3 |
| Florida 304..... | 41 | 35 | 45 | 4,099 | 4,692 | 4,888 | 0 | 37 | 4-10 | 51.8 |
| Jackson..... | 44 | 34 | 43 | 4,141 | 4,364 | 4,755 | 0 | 38 | 4-12 | 53.3 |
| Florida 302..... | 36 | 29 | 41 | - | - | - | 1 | 36 | 4- 9 | 48.0 |
| GA ANDY..... | 34 | 28 | 39 | 3,012 | - | - | 0 | 30 | 4- 9 | 49.9 |
| GA Dozier..... | 55 | 41 | - | 4,153 | 4,852 | - | 0 | 35 | 4-12 | 56.2 |
| Pioneer 2684..... | 50 | - | - | - | - | - | 0 | 34 | 4- 6 | 56.7 |
| Coker 9663..... | 44 | - | - | - | - | - | 3 | 36 | 4- 8 | 54.0 |
| Northrup King Coker 9835 | 44 | 37 | - | - | - | - | 0 | 29 | 4-10 | 50.8 |
| Pioneer 2691..... | 40 | 41 | - | - | - | - | 0 | 30 | 4- 4 | 52.8 |
| GA Stuckey..... | 39 | 39 | - | 3,836 | 4,886 | - | 13 | 28 | 4- 7 | 50.0 |
| Morey..... | 31 | 32 | - | 3,561 | 4,160 | - | 0 | 32 | 4- 5 | 48.6 |
| FL 85238-G585..... | 30 | - | - | 2,791 | - | - | 0 | 33 | 4-10 | 48.1 |
| Hazen..... | - | - | - | 4,285 | 4,474 | - | - | - | - | - |
| AR 26158-4..... | - | - | - | 3,798 | - | - | - | - | - | - |
| TEST MEAN..... | 43 | 37 | 46 | 3,829 | 4,530 | 4,740 | 1 | 34 | - | 52.0 |
| L.S.D. (.10)..... | 5 | 5 | 7 | 535 | 670 | 670 | - | - | - | - |
| C.V. (%)..... | 8 | 11 | 12 | 10 | 11 | 10 | - | - | - | - |
| Oats | | | | | | | | | | |
| Ga Mitchell..... | 84 | 50 | 67 | 3,478 | - | - | 6 | 39 | 4-16 | 31.8 |
| Citation..... | 92 | 51 | 61 | 3,854 | 4,513 | 4,747 | 35 | 46 | 4-15 | 31.6 |
| Florida 501..... | 76 | 43 | 47 | 2,724 | 3,572 | 4,200 | 62 | 41 | 4-16 | 29.9 |
| Florida 502..... | 49 | 31 | 39 | 2,526 | 3,820 | 4,338 | 13 | 38 | 4-12 | 31.6 |
| Ozark..... | 93 | 52 | - | 3,972 | 4,164 | 4,717 | 4 | 48 | 4-15 | 31.9 |
| FL 874-E55..... | 86 | 51 | - | 3,534 | 4,418 | - | 1 | 37 | 4-11 | 27.7 |
| Harrison..... | 81 | - | - | 3,684 | - | - | 18 | 46 | 4-14 | 30.8 |
| Iapar 61..... | 56 | - | - | 1,171 | 2,653 | - | 40 | 59 | 4-24 | 22.7 |
| TEST MEAN..... | 77 | 46 | 54 | 3,118 | 3,857 | 4,501 | 23 | 44 | - | 29.7 |
| L.S.D. (.10)..... | 13 | 10 | 13 | 634 | 620 | 620 | - | - | - | - |
| C.V. (%)..... | 12 | 17 | 18 | 15 | 12 | 10 | - | - | - | - |
| Rye | | | | | | | | | | |
| Wintergrazer 70..... | - | - | - | 5,102 | 5,788 | 5,956 | - | - | - | - |
| Bonel..... | - | - | - | 4,919 | 5,472 | 5,757 | - | - | - | - |
| Wren's Abruzzi AL..... | - | - | - | 4,186 | 5,287 | 5,398 | - | - | - | - |
| Florida 401..... | - | - | - | 3,338 | 4,343 | 4,696 | - | - | - | - |
| GA WACL-7..... | - | - | - | 5,902 | 6,007 | - | - | - | - | - |
| Oklon..... | - | - | - | 4,703 | 5,494 | - | - | - | - | - |
| Maton..... | - | - | - | 4,688 | 5,489 | - | - | - | - | - |
| GI 87..... | - | - | - | 4,593 | 5,400 | - | - | - | - | - |
| TEST MEAN..... | - | - | - | 4,679 | 5,410 | 5,451 | - | - | - | - |
| L.S.D. (.10)..... | - | - | - | 1,817 | 1,282 | 1,034 | - | - | - | - |
| C.V. (%)..... | - | - | - | 28 | 17 | 14 | - | - | - | - |
| Triticale | | | | | | | | | | |
| Sunland..... | 16 | 25 | 40 | 3,135 | 4,089 | - | 5 | 33 | 4- 6 | 36.8 |
| Trical 498..... | 24 | 34 | - | - | - | - | 1 | 35 | 4- 9 | 37.3 |
| Trical 2700..... | - | - | - | 4,191 | 4,646 | - | - | - | - | - |
| TEST MEAN..... | 20 | 29 | 40 | 3,663 | 4,367 | - | 3 | 34 | - | 37.1 |
| L.S.D. (.10)..... | 6 | 4 | - | 740 | 578 | - | - | - | - | - |
| C.V. (%)..... | 17 | 10 | - | 13 | 9 | - | - | - | - | - |

* Grain Yields are from Fairhope, Monroeville, and Camden only.

TABLE 11. CHARACTERISTICS OF SMALL GRAINS TESTED IN LATE PLANTING IN
SOUTHERN ALABAMA, 3-YEAR SUMMARY*

| Brand-Variety | Average Yield/Acre | | | 1996 Average | | | |
|-------------------|--------------------|----------------|-------|--------------|------------|------------------|------------------|
| | Grain Only | | | Lodging Pct. | Height In. | 1/10 Headed Date | Test Wt. Lb./Bu. |
| | Late 1996 | Planting 2-Yr. | 3-Yr. | | | | |
| Wheat | | | | | | | |
| GA ANDY..... | 56 | 48 | 51 | 0 | 35 | 4-11 | 53.0 |
| Florida 304..... | 47 | 37 | 41 | 0 | 37 | 4-14 | 53.3 |
| GA GORE..... | 40 | 35 | 41 | 3 | 36 | 4-13 | 52.6 |
| Florida 302..... | 40 | 25 | 33 | 1 | 37 | 4-18 | 47.9 |
| Test Mean..... | 46 | 36 | 42 | 1 | 36 | 4-14 | 51.7 |
| L.S.D. (.10)..... | 10 | 7 | 6 | - | - | - | - |
| C.V. (%)..... | 15 | 14 | 11 | - | - | - | - |
| Oats | | | | | | | |
| Florida 502..... | 64 | 52 | 63 | 32 | 39 | 4-15 | 29.3 |
| Citation..... | 76 | 53 | 62 | 43 | 41 | 4-18 | 29.5 |
| Florida 501..... | 71 | 50 | 57 | 75 | 39 | 4-16 | 27.4 |
| Test Mean..... | 70 | 51 | 61 | 50 | 40 | 4-16 | 28.7 |
| L.S.D. (.10)..... | 14 | 10 | 11 | - | - | - | - |
| C.V. (%)..... | 13 | 13 | 13 | - | - | - | - |
| Triticale | | | | | | | |
| Sunland..... | 38 | 49 | 50 | 0 | 39 | 4- 7 | 48.0 |
| Trical 498..... | 48 | 45 | - | 0 | 38 | 4- 8 | 42.4 |
| Test Mean..... | 43 | 47 | 50 | 0 | 39 | 4- 7 | 45.2 |
| L.S.D. (.10)..... | 6 | 8 | - | - | - | - | - |
| C.V. (%)..... | 8 | 12 | - | - | - | - | - |

* Fairhope, Monroeville, and Camden only.

Table 12. Performance of Small Grains at Camden, Alabama, 1996

| Brand-Variety | Grain Only Yield/Acre | | | | | | Forage Only Yield/Acre | |
|---------------------------|-----------------------|-----------|------|---------------|-----------|------|------------------------|-----------|
| | Regular Planting | | | Late Planting | | | 1996 | 3-Yr. Av. |
| | 1996 Test Wt. | 3-Yr. Av. | 1996 | Test Wt. | 3-Yr. Av. | 1996 | | |
| Bu. | Lb./Bu. | Bu. | Bu. | Lb./Bu. | Bu. | Lb. | Lb. | |
| Wheat | | | | | | | | |
| Jackson..... | 53 | 52.6 | 54 | - | - | - | 3,735 | 3,741 |
| Pioneer 2628..... | 49 | 52.3 | 49 | - | - | - | - | - |
| GA Dozier..... | 47 | 54.0 | - | - | - | - | 3,499 | - |
| Pioneer 2566..... | 46 | 51.6 | 48 | - | - | - | - | - |
| Wakefield..... | 44 | 48.9 | 48 | - | - | - | 4,061 | 3,747 |
| Pioneer 2643..... | 40 | 48.7 | 53 | - | - | - | - | - |
| GA GORE..... | 39 | 51.4 | 46 | 38 | 51.0 | 37 | 3,907 | - |
| Pioneer 2684..... | 34 | 52.6 | - | - | - | - | - | - |
| Coker 9663..... | 34 | 50.1 | - | - | - | - | - | - |
| Northrup King Coker 9835. | 30 | 46.6 | - | - | - | - | - | - |
| Madison..... | 29 | 48.8 | 43 | - | - | - | 3,724 | 3,697 |
| Florida 302..... | 29 | 44.2 | 41 | 29 | 47.4 | 26 | - | - |
| Pioneer 2691..... | 27 | 49.4 | - | - | - | - | - | - |
| GA Stuckey..... | 22 | 43.9 | - | - | - | - | 3,709 | - |
| GA ANDY..... | 22 | 46.3 | 36 | 45 | 50.7 | 43 | 2,827 | - |
| Florida 304..... | 21 | 46.6 | 39 | 38 | 50.6 | 35 | 3,373 | 3,866 |
| Morey..... | 18 | 46.3 | - | - | - | - | 3,666 | - |
| FL 85238-G585..... | 17 | 45.3 | - | - | - | - | 3,195 | - |
| Hazen..... | - | - | - | - | - | - | 4,116 | - |
| AR 26158-4..... | - | - | - | - | - | - | 3,455 | - |
| Test..... | - | - | - | - | - | - | 3,263 | - |
| Test Mean..... | 33 | 48.9 | 46 | 37 | 49.9 | 35 | 3,579 | 3,763 |
| L.S.D. (.10)..... | 5 | - | 5 | 12 | - | 7 | 496 | 594 |
| C.V. (%)..... | 10 | - | 7 | 20 | - | 14 | 10 | 12 |
| Oats | | | | | | | | |
| Ozark..... | 60 | 33.9 | - | - | - | - | 3,921 | 3,749 |
| Citation..... | 59 | 34.1 | 59 | 9 | 27.8 | 49 | 3,534 | 3,871 |
| Ga Mitchell | 47 | 33.4 | 53 | - | - | - | 2,873 | - |
| Harrison..... | 45 | 31.8 | - | - | - | - | 3,242 | - |
| Florida 501..... | 43 | 32.0 | 36 | 8 | 25.2 | 47 | 2,902 | 3,520 |
| FL 874-E55..... | 39 | 29.3 | - | - | - | - | 3,366 | - |
| Florida 502..... | 21 | 33.7 | 27 | 7 | 27.0 | 49 | 2,776 | 3,409 |
| Iapar 61..... | - | - | - | - | - | - | - | - |
| Test Mean..... | 45 | 32.6 | 44 | 8 | 26.7 | 48 | 3,231 | 3,637 |
| L.S.D. (.10)..... | 13 | - | 12 | 3 | - | 5 | 866 | 646 |
| C.V. (%)..... | 20 | - | 19 | 22 | - | 7 | 18 | 13 |

Continued

Table 12. Performance of Small Grains at Camden, Alabama, 1996

Continued

| Brand-Variety | Grain Only Yield/Acre | | | | | | Forage Only Yield/Acre | |
|------------------------|-----------------------|----------|-----------|---------------|----------|-----------|------------------------|-----------|
| | Regular Planting | | | Late Planting | | | 1996 | 3-Yr. Av. |
| | 1996 | Test Wt. | 3-Yr. Av. | 1996 | Test Wt. | 3-Yr. Av. | | |
| | Bu. | Lb./Bu. | Bu. | Bu. | Lb./Bu. | Bu. | Lb. | Lb. |
| Rye | | | | | | | | |
| GA WACL-7..... | - | - | - | - | - | - | 7,603 | - |
| Wintergrazer 70..... | - | - | - | - | - | - | 4,854 | 4,559 |
| Bonel..... | - | - | - | - | - | - | 4,073 | 4,534 |
| GI 87..... | - | - | - | - | - | - | 4,064 | - |
| Maton..... | - | - | - | - | - | - | 3,865 | - |
| Oklon..... | - | - | - | - | - | - | 3,686 | - |
| Wren's Abruzzi AL..... | - | - | - | - | - | - | 3,550 | 4,077 |
| Florida 401..... | - | - | - | - | - | - | 3,347 | 3,572 |
| Test Mean..... | - | - | - | - | - | - | 4,380 | 4,185 |
| L.S.D. (.10)..... | - | - | - | - | - | - | 3,024 | 1,430 |
| C.V. (%)..... | - | - | - | - | - | - | 48 | 25 |
| Triticale | | | | | | | | |
| Trical 498..... | 12 | 36.3 | - | 52 | 44.3 | 46 | - | - |
| Sunland..... | 8 | 39.2 | 38 | 34 | 49.3 | 41 | 3,168 | - |
| Trical 2700..... | - | - | - | - | - | - | 3,570 | - |
| Test Mean..... | 10 | 37.8 | 38 | 43 | 46.8 | 43 | 3,369 | - |
| L.S.D. (.10)..... | 4 | - | - | 13 | - | 12 | 80 | - |
| C.V. (%)..... | 18 | - | - | 12 | - | 17 | 1 | - |

TABLE 13. PERFORMANCE OF SMALL GRAINS AT MONROEVILLE, ALABAMA, 1996

| Brand-Variety | Grain Only Yield/Acre | | | | | | Forage Only Yield/Acre | |
|---------------------------|-----------------------|----------|-----------|---------------|----------|-----------|------------------------|-----------|
| | Regular Planting | | | Late Planting | | | 1996 | 3-Yr. Av. |
| | 1996 | Test Wt. | 3-Yr. Av. | 1996 | Test Wt. | 3-Yr. Av. | | |
| Bu. | Lb./Bu. | Bu. | Bu. | Lb./Bu. | Bu. | Lb. | Lb. | |
| Wheat | | | | | | | | |
| GA Dozier..... | 73 | 54.3 | - | - | - | - | 4,345 | - |
| Wakefield..... | 69 | 50.7 | 60 | - | - | - | 4,034 | 4,114 |
| Pioneer 2628..... | 63 | 53.4 | 55 | - | - | - | - | - |
| Pioneer 2684..... | 52 | 53.6 | - | - | - | - | - | - |
| Florida 304..... | 48 | 49.3 | 51 | 56 | 50.3 | 50 | 3,988 | 4,093 |
| Jackson..... | 47 | 52.8 | 46 | - | - | - | 4,842 | 4,552 |
| Pioneer 2643..... | 47 | 50.3 | 62 | - | - | - | - | - |
| Florida 302..... | 43 | 45.4 | 48 | 67 | 48.4 | 49 | - | - |
| Northrup King Coker 9835. | 43 | 46.1 | - | - | - | - | - | - |
| GA Stuckey..... | 40 | 46.0 | - | - | - | - | 4,020 | - |
| Coker 9663..... | 39 | 50.1 | - | - | - | - | - | - |
| Madison..... | 39 | 49.6 | 53 | - | - | - | 3,627 | 4,081 |
| Pioneer 2691..... | 35 | 48.1 | - | - | - | - | - | - |
| GA ANDY..... | 29 | 44.5 | 38 | 65 | 49.0 | 59 | 2,667 | - |
| Pioneer 2566..... | 25 | 45.8 | 49 | - | - | - | - | - |
| Morey..... | 23 | 42.0 | - | - | - | - | 3,366 | - |
| FL 85238-G585..... | 20 | 39.6 | - | - | - | - | 2,675 | - |
| GA GORE..... | 18 | 35.0 | 47 | 30 | 48.3 | 45 | 3,978 | - |
| Hazen..... | - | - | - | - | - | - | 4,330 | - |
| AR 26158-4..... | - | - | - | - | - | - | 4,141 | - |
| Test Mean..... | 42 | 47.6 | 51 | 55 | 49.0 | 51 | 3,835 | 4,210 |
| L.S.D. (.10)..... | 6 | - | 9 | 12 | - | 7 | 482 | 524 |
| C.V. (%)..... | 10 | - | 13 | 14 | - | 10 | 9 | 9 |
| Oats | | | | | | | | |
| FL 874-E55..... | 107 | 25.1 | - | - | - | - | 2,788 | - |
| Citation..... | 99 | 28.7 | 60 | 107 | 26.7 | 85 | 3,054 | 4,097 |
| Ozark..... | 95 | 29.8 | - | - | - | - | 3,395 | 4,378 |
| Harrison..... | 84 | 28.3 | - | - | - | - | 3,108 | - |
| Ga Mitchell..... | 84 | 29.2 | 77 | - | - | - | 2,824 | - |
| Florida 501..... | 72 | 25.5 | - | 88 | 25.9 | 71 | 1,566 | 3,463 |
| Florida 502..... | 54 | 28.3 | 40 | 83 | 27.6 | 74 | 1,117 | 3,320 |
| Iapar 61..... | - | - | - | - | - | - | - | - |
| Test Mean..... | 85 | 27.8 | 59 | 93 | 26.7 | 77 | 2,550 | 3,815 |
| L.S.D. (.10)..... | 14 | - | 13 | 23 | - | 11 | 583 | 663 |
| C.V. (%)..... | 11 | - | 16 | 14 | - | 10 | 16 | 13 |
| Rye | | | | | | | | |
| Maton..... | - | - | - | - | - | - | 5,405 | - |
| GA WACL-7..... | - | - | - | - | - | - | 5,245 | - |
| Wintergrazer 70..... | - | - | - | - | - | - | 4,838 | 4,739 |
| Bonel..... | - | - | - | - | - | - | 4,674 | 4,623 |
| Oklon..... | - | - | - | - | - | - | 4,172 | - |
| GI 87..... | - | - | - | - | - | - | 3,740 | - |
| Wren's Abruzzi AL..... | - | - | - | - | - | - | 3,433 | 4,449 |
| Florida 401..... | - | - | - | - | - | - | 2,160 | 3,427 |
| Test Mean..... | - | - | - | - | - | - | 4,208 | 4,310 |
| L.S.D. (.10)..... | - | - | - | - | - | - | 1,247 | 790 |
| C.V. (%)..... | - | - | - | - | - | - | 21 | 13 |
| Triticale | | | | | | | | |
| Trical 498..... | 31 | 34.5 | - | 46 | 37.2 | 46 | - | - |
| Sunland..... | 19 | 33.1 | 45 | 43 | 44.6 | 52 | 2,326 | - |
| Trical 2700..... | - | - | - | - | - | - | 4,269 | - |
| Test Mean..... | 25 | 33.8 | 45 | 44 | 40.9 | 49 | 3,298 | - |
| L.S.D. (.10)..... | 12 | - | - | 7 | - | 10 | 1,893 | - |
| C.V. (%)..... | 20 | - | - | 7 | - | 13 | 24 | - |

TABLE 14. PERFORMANCE OF SMALL GRAINS AT HEADLAND, ALABAMA, 1996

| Brand-Variety | Grain Only Yield/Acre | | | | | | Forage Only Yield/Acre | |
|---------------------------|-----------------------|----------|------------|---------------|----------|-----------|------------------------|-----------|
| | Regular Planting | | | Late Planting | | | 1996 | 3-Yr. Av. |
| | 1996 | Test Wt. | 3-Yr. Av.* | 1996 | Test Wt. | 3-Yr. Av. | | |
| | Bu. | Lb./Bu. | Bu. | Bu. | Lb./Bu. | Bu. | Lb. | Lb. |
| Wheat | | | | | | | | |
| Pioneer 2684..... | 54 | 54.2 | - | - | - | - | - | - |
| Coker 9663..... | 51 | 53.0 | - | - | - | - | - | - |
| GA GORE..... | 49 | 53.8 | 47 | 45 | 50.8 | 43 | 3,608 | - |
| Pioneer 2643..... | 46 | 51.9 | - | - | - | - | - | - |
| GA ANDY..... | 45 | 50.0 | 30 | 45 | 49.8 | 49 | 3,364 | - |
| Pioneer 2628..... | 44 | 52.8 | - | - | - | - | - | - |
| Northrup King Coker 9835. | 42 | 51.3 | 35 | - | - | - | - | - |
| Florida 304..... | 40 | 50.0 | 28 | 40 | 49.4 | 41 | 4,431 | 5,919 |
| GA Dozier..... | 38 | 49.0 | - | - | - | - | 3,861 | - |
| Pioneer 2566..... | 37 | 50.8 | 46 | - | - | - | - | - |
| Morey..... | 36 | 48.0 | - | - | - | - | 4,329 | - |
| Pioneer 2691..... | 34 | 51.6 | - | - | - | - | - | - |
| Jackson..... | 33 | 50.1 | - | - | - | - | 3,511 | 5,177 |
| Florida 302..... | 33 | 46.0 | 23 | 32 | 44.2 | 30 | - | - |
| FL 85238-G585..... | 30 | 49.2 | - | - | - | - | 3,013 | - |
| Madison..... | 28 | 52.3 | 22 | - | - | - | 3,149 | 4,827 |
| GA Stuckey..... | 25 | 50.7 | - | - | - | - | 3,584 | - |
| Wakefield..... | 13 | 51.4 | 26 | - | - | - | 4,668 | 5,776 |
| Hazen..... | - | - | - | - | - | - | 4,038 | - |
| AR 26158-4..... | - | - | - | - | - | - | 3,361 | - |
| Test Mean..... | 38 | 50.9 | 32 | 40 | 48.6 | 41 | 3,743 | 5,425 |
| L.S.D. (.10)..... | 8 | - | 8 | 9 | - | 12 | 806 | 935 |
| C.V. (%)..... | 16 | - | 18 | 13 | - | 22 | 15 | 13 |
| Oats | | | | | | | | |
| Citation..... | 88 | 31.3 | 50 | 59 | 31.7 | 66 | 3,943 | 6,159 |
| Ga Mitchell..... | 80 | 32.7 | 63 | - | - | - | 4,109 | - |
| FL 874-E55..... | 76 | 29.8 | - | - | - | - | 3,681 | - |
| Ozark..... | 75 | 31.3 | - | - | - | - | 3,569 | 5,929 |
| Florida 502..... | 66 | 33.4 | 58 | 33 | 31.6 | 56 | 3,052 | 6,426 |
| Florida 501..... | 63 | 33.3 | 40 | 72 | 31.1 | 68 | 3,268 | 5,833 |
| Harrison..... | 61 | 32.7 | - | - | - | - | 3,753 | - |
| Iapar 61..... | 34 | 26.1 | - | - | - | - | 814 | - |
| Test Mean..... | 68 | 31.3 | 53 | 55 | 31.5 | 63 | 3,274 | 6,087 |
| L.S.D. (.10)..... | 10 | - | 10 | 17 | - | 27 | 574 | 1,347 |
| C.V. (%)..... | 10 | - | 14 | 18 | - | 30 | 12 | 16 |

Continued

TABLE 14. PERFORMANCE OF SMALL GRAINS AT HEADLAND, ALABAMA, 1996

Continued

| Brand-Variety | Grain Only Yield/Acre | | | | | | Forage Only Yield/Acre | |
|------------------------|-----------------------|----------|------------|---------------|----------|-----------|------------------------|-----------|
| | Regular Planting | | | Late Planting | | | 1996 | 3-Yr. Av. |
| | 1996 | Test Wt. | 3-Yr. Av.* | 1996 | Test Wt. | 3-Yr. Av. | | |
| Bu. | Lb./Bu. | Bu. | Bu. | Lb./Bu. | Bu. | Lb. | Lb. | |
| Rye | | | | | | | | |
| GA WACL-7..... | - | - | - | - | - | - | 6,968 | - |
| Oklon..... | - | - | - | - | - | - | 6,721 | - |
| Bonel..... | - | - | - | - | - | - | 6,605 | 8,420 |
| Wren's Abruzzi AL..... | - | - | - | - | - | - | 6,361 | 8,227 |
| Wintergrazer 70..... | - | - | - | - | - | - | 6,271 | 8,684 |
| GI 87..... | - | - | - | - | - | - | 6,176 | - |
| Florida 401..... | - | - | - | - | - | - | 5,353 | 8,338 |
| Maton..... | - | - | - | - | - | - | 4,891 | - |
| Test Mean..... | - | - | - | - | - | - | 6,168 | 8,417 |
| L.S.D. (.10)..... | - | - | - | - | - | - | 1,333 | 1,634 |
| C.V. (%)..... | - | - | - | - | - | - | 15 | 14 |
| Triticale | | | | | | | | |
| Trical 498..... | 50 | 39.5 | - | 65 | 41.1 | 45 | - | - |
| Sunland..... | 46 | 47.0 | 34 | 56 | 47.4 | 49 | 4,600 | - |
| Trical 2700..... | - | - | - | - | - | - | 5,154 | - |
| Test Mean..... | 48 | 43.3 | 34 | 60 | 44.3 | 47 | 4,877 | - |
| L.S.D. (.10)..... | 3 | - | - | 11 | - | 11 | 2,758 | - |
| C.V. (%)..... | 3 | - | - | 8 | - | 10 | 24 | - |

* Grain only 3-yr. Av. based on 1993, 1995, and 1996.

TABLE 15. PERFORMANCE OF SMALL GRAINS AT FAIRHOPE, ALABAMA, 1996

| Brand-Variety | Grain Only Yield/Acre | | | | | | Forage Only Yield/Acre | |
|---------------------------|-----------------------|-----------|-----|---------------|-----------|----|------------------------|------------------|
| | Regular Planting | | | Late Planting | | | 1996 Lb. | 3-Yr. Av. Lb. |
| | 1996 Test Wt. | 3-Yr. Av. | | 1996 Test Wt. | 3-Yr. Av. | | | |
| Bu. | Lb./Bu. | Bu. | Bu. | Lb./Bu. | Bu. | | | |
| Wheat | | | | | | | | |
| Pioneer 2684..... | 64 | 64.0 | - | - | - | - | - | - |
| Coker 9663..... | 60 | 61.9 | - | - | - | - | - | - |
| Northrup King Coker 9835. | 60 | 59.8 | - | - | - | - | - | - |
| Pioneer 2643..... | 59 | 62.1 | 51 | - | - | - | - | - |
| Pioneer 2691..... | 59 | 61.0 | - | - | - | - | - | - |
| GA GORE..... | 58 | 61.5 | 43 | 52 | 58.5 | 41 | 5,013 | - |
| Madison..... | 57 | 60.9 | 44 | - | - | - | 4,797 | 5,540 |
| GA Stuckey..... | 55 | 60.1 | - | - | - | - | 4,031 | - |
| Wakefield..... | 54 | 58.3 | 44 | - | - | - | 4,508 | 5,477 |
| Florida 304..... | 52 | 59.6 | 45 | 47 | 59.1 | 40 | 4,602 | 5,675 |
| FL 85238-G585..... | 52 | 59.3 | - | - | - | - | 2,279 | - |
| Morey..... | 52 | 57.4 | - | - | - | - | 2,883 | - |
| GA ANDY..... | 51 | 59.1 | 42 | 56 | 59.4 | 53 | 3,190 | - |
| Pioneer 2628..... | 51 | 59.0 | 37 | - | - | - | - | - |
| Pioneer 2566..... | 50 | 60.2 | 42 | - | - | - | - | - |
| GA Dozier..... | 45 | 60.4 | - | - | - | - | 4,907 | - |
| Florida 302..... | 37 | 54.5 | 33 | 24 | 47.8 | 23 | - | - |
| Jackson..... | 32 | 54.5 | 30 | - | - | - | 4,475 | 5,551 |
| Hazen..... | - | - | - | - | - | - | 4,656 | - |
| AR 26158-4..... | - | - | - | - | - | - | 4,234 | - |
| Test Mean | 53 | 59.6 | 41 | 45 | 56.2 | 39 | 4,131 | 5,561 |
| L.S.D. (.10)..... | 4 | - | 8 | 9 | - | 5 | 661 | 865 |
| C.V. (%)..... | 5 | - | 14 | 12 | - | 9 | 11 | 11 |
| Oats | | | | | | | | |
| Ozark..... | 123 | 32.1 | - | - | - | - | 5,004 | 4,813 |
| Ga Mitchell..... | 120 | 32.8 | 70 | - | - | - | 4,106 | - |
| Citation..... | 117 | 32.1 | 53 | 111 | 34.0 | 52 | 4,885 | 4,863 |
| Florida 501..... | 115 | 32.3 | 60 | 116 | 31.2 | 53 | 3,160 | 3,983 |
| Harrison..... | 114 | 32.3 | - | - | - | - | 4,633 | - |
| FL 874-E55..... | 112 | 28.7 | - | - | - | - | 4,301 | - |
| Florida 502..... | 73 | 32.7 | 51 | 100 | 33.3 | 67 | 3,161 | 4,197 |
| Iapar 61..... | 56 | 22.7 | - | - | - | - | 1,528 | - |
| Test Mean..... | 104 | 30.7 | 59 | 109 | 32.8 | 57 | 3,847 | 4,464 |
| L.S.D. (.10)..... | 14 | - | 15 | 16 | - | 15 | 530 | 585 |
| C.V. (%)..... | 10 | - | 19 | 9 | - | 19 | 10 | 10 |
| Rye | | | | | | | | |
| Maton..... | - | - | - | - | - | - | 4,593 | - |
| Wintergrazer 70 | - | - | - | - | - | - | 4,444 | 5,841 |
| GI 87 | - | - | - | - | - | - | 4,391 | - |
| Bonel | - | - | - | - | - | - | 4,323 | 5,449 |
| Oklon | - | - | - | - | - | - | 4,233 | - |
| GA WACL-7 | - | - | - | - | - | - | 3,791 | - |
| Wren's Abruzzi AL | - | - | - | - | - | - | 3,398 | 4,839 |
| Florida 401 | - | - | - | - | - | - | 2,491 | 3,446 |
| Test Mean | - | - | - | - | - | - | 3,958 | 4,893 |
| L.S.D. (.10) | - | - | - | - | - | - | 401 | 771 |
| C.V. (%)..... | - | - | - | - | - | - | 7 | 12 |
| Triticale | | | | | | | | |
| Trical 498..... | 31 | 41.0 | - | 46 | 45.7 | 49 | - | - |
| Sunland | 22 | 38.2 | 37 | 38 | 50.1 | 55 | 2,444 | - |
| Trical 2700..... | - | - | - | - | - | - | 3,770 | - |
| Test Mean..... | 26 | 39.6 | 37 | 42 | 47.9 | 52 | 3,107 | - |
| L.S.D. (.10)..... | 8 | - | - | 3 | - | 3 | 345 | - |
| C.V. (%)..... | 12 | - | - | 3 | - | 3 | 5 | - |

TABLE 16. SEPTORIA BLOTCH RATINGS FOR WHEAT VARIETIES IN ALABAMA, 1995-96¹

| Brand-variety | Northern Alabama | Central Alabama | Southern Alabama |
|--------------------------------|---------------------|--------------------|---------------------|
| Clemson 201 | 2.0 | 2.0 | - |
| FL 85238-G585 | 2.5 | 4.0 | 6.3 |
| Florida 302 | 3.0 | 3.7 | 5.8 |
| Florida 304 | 4.0 | 5.0 | 6.0 |
| GA Andy | 3.0 | 3.3 | 5.8 |
| GA Dozier | 3.0 | 4.0 | 4.5 |
| GA Gore | 2.7 | 4.0 | 4.3 |
| GA Stuckey | 3.0 | 5.3 | 5.3 |
| Jackson | 2.3 | 2.3 | 3.8 |
| Madison | 2.7 | 2.3 | 4.3 |
| Morey | 2.7 | 4.7 | 6.0 |
| Northrup King Coker 9134 | 2.3 | - | - |
| Northrup King Coker 9835 | 3.0 | 4.3 | 2.3 |
| Northrup King Coker 9663 | - | - | 4.5 |
| Pioneer 2566 | 3.3 | 3.3 | 3.8 |
| Pioneer 2580 | 3.7 | - | - |
| Pioneer 2628 | 1.3 | 3.0 | 3.8 |
| Pioneer 2643 | 2.7 | 3.3 | 4.3 |
| Pioneer 2684 | 2.3 | 4.0 | 4.8 |
| Pioneer 2691 | 2.3 | 4.7 | 6.3 |
| Terral 101 | 1.7 | - | - |
| Wakefield | 2.0 | 2.7 | 4.0 |

Southern Alabama*Late Planting*

| | | | |
|-------------------|---|---|-----|
| Florida 302 | - | - | 4.5 |
| Florida 304 | - | - | 4.8 |
| GA Andy | - | - | 4.0 |
| GA Gore | - | - | 3.3 |

¹0-10 scale: 0 = no disease, 10 = severe disease.

TABLE 17. LEAF RUST RATINGS FOR WHEAT VARIETIES IN ALABAMA, 1995-96¹

| Brand-variety | Northern Alabama | Central Alabama | Southern Alabama |
|--------------------------------|---------------------|--------------------|---------------------|
| Clemson 201 | 0.0 | 0.0 | - |
| FL 85238-G585 | 0.0 | 0.0 | 0.0 |
| Florida 302 | 0.0 | 0.0 | 4.5 |
| Florida 304 | 0.0 | 0.0 | 0.1 |
| GA Andy | 0.0 | 0.0 | 0.8 |
| GA Dozier | 0.0 | 0.0 | 0.3 |
| GA Gore | 0.0 | 0.0 | 0.8 |
| GA Stuckey | 0.0 | 0.0 | 0.5 |
| Jackson | 0.0 | 0.0 | 2.3 |
| Madison | 0.0 | 0.3 | 2.8 |
| Morey | 0.0 | 0.0 | 0.0 |
| Northrup King Coker 9134 | 0.0 | - | - |
| Northrup King Coker 9835 | 0.0 | 0.0 | 1.5 |
| Northrup King Coker 9663 | - | - | 0.3 |
| Pioneer 2566 | 0.0 | 0.0 | 0.5 |
| Pioneer 2580 | 0.0 | - | - |
| Pioneer 2628 | 0.0 | 0.3 | 1.5 |
| Pioneer 2643 | 0.0 | 0.0 | 0.3 |
| Pioneer 2684 | 0.0 | 0.0 | 0.3 |
| Pioneer 2691 | 0.0 | 0.0 | 0.3 |
| Terral 101 | 0.0 | - | - |
| Wakefield | 0.0 | 0.0 | 2.3 |
| Southern Alabama | | | |
| <i>Late Planting</i> | | | |
| Florida 302 | - | - | 2.8 |
| Florida 304 | - | - | 0.0 |
| GA Andy | - | - | 0.5 |
| GA Gore | - | - | 0.3 |

¹0-10 scale: 0 = no disease, 10 = severe disease.

TABLE 18. POWDERY MILDEW RATINGS FOR WHEAT VARIETIES IN ALABAMA, 1995-96¹

| Brand-variety | Northern Alabama | Central Alabama | Southern Alabama |
|--------------------------|---------------------|--------------------|---------------------|
| Clemson 201 | 0.0 | 0.0 | - |
| FL 85238-G585 | 0.0 | 0.0 | 0.0 |
| Florida 302 | 0.0 | 0.0 | 0.0 |
| Florida 304 | 0.0 | 0.0 | 0.0 |
| GA Andy | 0.0 | 0.0 | 0.0 |
| GA Dozier | 0.0 | 0.0 | 0.5 |
| GA Gore | 0.0 | 0.0 | 0.0 |
| GA Stuckey | 0.0 | 0.0 | 0.0 |
| Jackson | 0.0 | 0.0 | 0.5 |
| Madison | 0.0 | 0.0 | 1.5 |
| Morey | 0.0 | 0.0 | 0.0 |
| Northrup King Coker 9134 | 0.0 | - | - |
| Northrup King Coker 9835 | 0.0 | 0.0 | 1.3 |
| Northrup King Coker 9663 | - | - | 0.0 |
| Pioneer 2566 | 0.0 | 0.0 | 0.0 |
| Pioneer 2580 | 0.0 | - | - |
| Pioneer 2628 | 0.0 | 0.0 | 0.0 |
| Pioneer 2643 | 0.0 | 0.0 | 0.0 |
| Pioneer 2684 | 0.0 | 0.0 | 0.0 |
| Pioneer 2691 | 0.0 | 0.0 | 0.0 |
| Terral 101 | 0.0 | - | - |
| Wakefield | 0.0 | 1.7 | 1.0 |
| Southern Alabama | | | |
| <i>Late Planting</i> | | | |
| Florida 302 | - | - | 0.8 |
| Florida 304 | - | - | 0.0 |
| GA Andy | - | - | 0.0 |
| GA Gore | - | - | 0.0 |

¹0-10 scale: 0 = no disease, 10 = severe disease.

TABLE 19. BARLEY YELLOW DWARF RATINGS FOR WHEAT VARIETIES IN ALABAMA, 1995-96¹

| Brand-variety | Northern Alabama | Central Alabama | Southern Alabama |
|--------------------------------|---------------------|--------------------|---------------------|
| Clemson 201 | 0.3 | 5.0 | - |
| FL 85238-G585 | 2.5 | 1.8 | 1.3 |
| Florida 302 | 5.0 | 0.3 | 0.0 |
| Florida 304 | 2.2 | 5.0 | 2.5 |
| GA Andy | 0.3 | 6.8 | 0.0 |
| GA Dozier | 5.0 | 0.3 | 1.3 |
| GA Gore | 6.8 | 15.2 | 8.8 |
| GA Stuckey | 36.7 | 25.0 | 25.1 |
| Jackson | 5.3 | 0.3 | 0.0 |
| Madison | 0.2 | 0.3 | 5.1 |
| Morey | 13.3 | 11.7 | 0.0 |
| Northrup King Coker 9134 | 8.3 | - | - |
| Northrup King Coker 9835 | 12.0 | 13.3 | 5.0 |
| Northrup King Coker 9663 | - | - | 0.1 |
| Pioneer 2566 | 8.3 | 5.0 | 7.6 |
| Pioneer 2580 | 3.3 | - | - |
| Pioneer 2628 | 6.7 | 5.3 | 0.1 |
| Pioneer 2643 | 6.8 | 8.3 | 2.8 |
| Pioneer 2684 | 10.0 | 2.2 | 11.3 |
| Pioneer 2691 | 1.8 | 0.5 | 0.0 |
| Terral 101 | 2.5 | - | - |
| Wakefield | 10.0 | 5.5 | 1.3 |
| Southern Alabama | | | |
| <i>Late Planting</i> | | | |
| Florida 302 | - | - | 0.0 |
| Florida 304 | - | - | 1.4 |
| GA Andy | - | - | 0.1 |
| GA Gore | - | - | 1.4 |

¹Percent symptomatic plants.

TABLE 20. SOILBORNE MOSAIC RATINGS FOR WHEAT VARIETIES IN ALABAMA, 1995-96¹

| Brand-variety | Northern Alabama | Central Alabama | Southern Alabama |
|--------------------------------|---------------------|--------------------|---------------------|
| Clemson 201 | 0.0 | 0.0 | - |
| FL 85238-G585 | 0.0 | 0.0 | 0.0 |
| Florida 302 | 5.0 | 6.7 | 38.8 |
| Florida 304 | 20.0 | 0.0 | 16.3 |
| GA Andy | 5.0 | 3.3 | 26.3 |
| GA Dozier | 10.0 | 0.0 | 1.3 |
| GA Gore | 16.7 | 0.0 | 21.3 |
| GA Stuckey | 0.0 | 0.0 | 0.0 |
| Jackson | 0.0 | 0.0 | 16.3 |
| Madison | 0.0 | 0.0 | 0.0 |
| Morey | 20.0 | 0.0 | 5.0 |
| Northrup King Coker 9134 | 0.0 | - | - |
| Northrup King Coker 9835 | 0.0 | 0.0 | 0.0 |
| Northrup King Coker 9663 | - | - | 0.0 |
| Pioneer 2566 | 16.7 | 0.0 | 28.8 |
| Pioneer 2580 | 10.0 | - | - |
| Pioneer 2628 | 0.0 | 0.0 | 3.8 |
| Pioneer 2643 | 0.0 | 0.0 | 0.0 |
| Pioneer 2684 | 0.0 | 0.0 | 0.0 |
| Pioneer 2691 | 0.0 | 0.0 | 11.3 |
| Terral 101 | 0.0 | - | - |
| Wakefield | 0.0 | 0.0 | 0.0 |
| Southern Alabama | | | |
| <i>Late Planting</i> | | | |
| Florida 302 | - | - | 55.0 |
| Florida 304 | - | - | 16.3 |
| GA Andy | - | - | 20.0 |
| GA Gore | - | - | 20.1 |

¹Percent symptomatic plants.

TABLE 21. DISEASE RATINGS FOR OAT VARIETIES IN ALABAMA, 1995-96

| Brand-variety | Helminthosporium leaf spot ¹ | Crown rust ¹ | Barley yellow dwarf ² |
|-------------------------------|--|----------------------------|-------------------------------------|
| Northern Alabama | | | |
| FL 874-E55 | 2.5 | 0.0 | 15.0 |
| Florida 501 | | WINTER KILLED | |
| Florida 502 | | WINTER KILLED | |
| GA Mitchell | 1.0 | 0.0 | 27.5 |
| Harrison | 1.0 | 0.0 | 17.5 |
| Iapar 61 | | WINTER KILLED | |
| Northrup King Coker 716 | 2.0 | 0.0 | 12.5 |
| Ozark | 1.7 | 0.0 | 3.5 |
| Simpson | 2.0 | 0.0 | 1.0 |
| Central Alabama | | | |
| Citation | 3.7 | 0.0 | 0.2 |
| FL 874-E55 | 4.7 | 0.0 | 3.3 |
| Florida 501 | 4.0 | 0.0 | 6.8 |
| Florida 502 | 5.0 | 0.0 | 0.0 |
| GA Mitchell | 4.0 | 0.0 | 1.0 |
| Harrison | 3.7 | 0.0 | 0.2 |
| Iapar 61 | | WINTER KILLED | |
| Ozark | 2.7 | 0.0 | 0.3 |
| Simpson | 3.7 | 0.0 | 13.3 |
| Southern Alabama | | | |
| Citation | 4.0 | 0.0 | 0.0 |
| FL 874-E55 | 4.3 | 0.0 | 0.1 |
| Florida 501 | 4.5 | 0.0 | 0.1 |
| Florida 502 | 3.8 | 0.0 | 0.0 |
| GA Mitchell | 3.5 | 0.0 | 0.0 |
| Harrison | 3.5 | 0.0 | 0.0 |
| Iapar 61 | 4.0 | 0.0 | 0.0 |
| Ozark | 4.0 | 0.0 | 0.0 |
| Southern Alabama | | | |
| <i>Late Planting</i> | | | |
| Citation | 2.8 | 0.0 | 0.0 |
| Florida 501 | 3.0 | 0.0 | 0.0 |
| Florida 502 | 2.8 | 0.0 | 0.0 |

¹0-10 scale: 0 = no disease, 10 = severe disease.

²Percent symptomatic plants.

TABLE 22. DISEASE RATINGS FOR TRITICALE VARIETIES IN ALABAMA, 1995-96¹

| Brand-variety | Septoria blotch ¹ | Leaf rust ¹ | Barley yellow dwarf ² |
|-------------------------|------------------------------|------------------------|----------------------------------|
| Northern Alabama | | | |
| Sunland | 2.3 | 0.0 | 0.2 |
| Trical 498 | 2.7 | 0.0 | 0.2 |
| Central Alabama | | | |
| Sunland | 3.7 | 0.0 | 0.0 |
| Trical 498 | 4.7 | 0.0 | 0.0 |
| Southern Alabama | | | |
| Sunland | 4.5 | 0.5 | 0.0 |
| Trical 498 | 5.8 | 1.3 | 0.0 |
| Southern Alabama | | | |
| <i>Late Planting</i> | | | |
| Sunland | 3.8 | 1.0 | 0.0 |
| Trical 498 | 3.8 | 1.5 | 0.0 |

¹0-10 scale: 0 = no disease, 10 = severe disease

²Percent plants affected.

TABLE 23. DISEASE RATINGS FOR BARLEY VARIETIES IN NORTHERN ALABAMA, 1995-96¹

| Brand-variety | Stripe | Spot blotch | Net blotch | Septoria blotch |
|-------------------|--------|-------------|------------|-----------------|
| Callao | 0.5 | 1.0 | 1.0 | 2.0 |
| GA Luttrell | 0.5 | 1.0 | 1.0 | 1.0 |
| Nomini | 0.0 | 1.0 | 0.7 | 1.0 |
| Pamunkey | 0.3 | 1.7 | 0.3 | 1.3 |
| Starling | 0.5 | 1.0 | 1.5 | 2.5 |
| Venus | 0.5 | 2.0 | 1.5 | 2.0 |

¹0-10 scale: 0 = no disease, 10 = severe disease.

SOURCES OF SEED

WHEAT

| | |
|---|--|
| GA Andy, GA Stuckey, GA Gore, GA Dozier, Morey | Univ. of Georgia, Georgia Station Griffin, Georgia |
| Coker (all varieties, brands, and hybrids) | Northrup King Co., Grifton, North Carolina |
| Florida 302, Florida 304 FL 85238-G585 | Univ. of Florida, Agric. Res. Ctr., Quincy, Florida |
| Jackson, Madison, Wakefield | Department of Agronomy Virginia Polytechnic Inst. Blacksburg, Virginia |
| Pioneer (all varieties, brands, and hybrids) | Pioneer Hi-Bred International, Inc. Tipton, Indiana |
| Clemson 201 | South Carolina Crop Impr. Assoc. Clemson, South Carolina |
| Terral 101 | Terral-Norris Seed Co. Lake Providence, Louisiana |
| Hazen, AR 26158-4 | Univ. of Arkansas Fayetteville, Arkansas |

OATS

| | |
|---|--|
| Ozark | Univ. of Arkansas Fayetteville, Arkansas |
| Citation | Terral-Norris Seed Co. Lake Providence, Louisiana |
| Coker (all varieties, brands, and hybrids) | Northrup King Co. Grifton, North Carolina |
| Harrison | Alabama Farmer's Coop Decatur, Alabama |
| Florida 501, Florida 502 FL 874-E55 | Univ. of Florida Agric. Res. Ctr. Quincy, Florida |

GA Mitchell

Coastal Plain Experiment Station
Tifton, Georgia

Simpson

South Carolina Crop Impr. Assoc.
Clemson, South Carolina

Iapar 61

Auburn University/USDA-ARS
Auburn, Alabama

BARLEY

Pamunkey, Nomini,
Starling, Callao

Department of Agronomy
Virginia Polytechnic Inst.
Blacksburg, Virginia

GA Luttrell, Venus

Univ. of Georgia, Georgia Station
Griffin, Georgia

TRITICALE

Trical 498, Trical 2700

Resource Seeds, Inc.
Union, Kentucky

Sunland

Univ. of Florida Agric. Res. Ctr.
Quincy, Florida

RYE

Wren's Abruzzi AL,
Florida 401

Alabama Crop Improvement Assoc.
Auburn, Alabama

AFC 20-20

Gainey Grain, Inc.
Laurel Hill, North Carolina

GI-87, Gurley's Grazer 2000

Carl R. Gurley, Inc.
Princeton, North Carolina

Wintergrazer 70

Pennington Seed Inc.
Madison, Georgia

Bonel, Maton, Oklon

Samuel Roberts Noble Foundation, Inc.
Ardmore, Oklahoma

GA-WACL-7

Univ. of Georgia, Georgia Station
Griffin, Georgia

APPENDIX

CHARACTERISTICS OF SELECTED VARIETIES

| <i>Wheat</i> | | | | | | | |
|----------------------|------------|--------------|----------------|-------------|-------------|----------|----------------|
| Brand-Variety | Resistance | | | | Test Weight | Maturity | Straw Strength |
| | Leaf Rust | Glume Blotch | Powdery Mildew | Hessian Fly | | | |
| AgriPro Hickory..... | poor | good | fair | fair | fair | medium | fair |
| Florida 302..... | poor | fair | fair | poor | good | late | good |
| Florida 304..... | good | fair | fair | good | good | medium | good |
| GA-Andy..... | poor | fair | poor | good | good | early | good |
| GA-Dozier..... | good | good | fair | good | good | late | good |
| GA-Gore..... | poor | good | good | good | good | medium | fair |
| GA-Stuckey..... | poor | fair | good | good | fair | early | fair |
| Jackson..... | poor | fair | fair | poor | good | late | fair |
| Madison..... | poor | fair | good | poor | fair | medium | good |
| Morey..... | good | fair | good | good | good | early | good |
| NK Coker 9134..... | fair | good | fair | good | good | late | fair |
| NK Coker 9835..... | poor | good | fair | good | good | medium | good |
| Pioneer 2566..... | good | good | fair | good | good | late | good |
| Pioneer 2580..... | fair | good | good | good | fair | late | fair |
| Pioneer 2628..... | poor | fair | good | fair | good | medium | fair |
| Pioneer 2643..... | good | good | good | poor | good | late | good |
| Pioneer 2684..... | poor | good | good | good | good | early | fair |
| Saluda..... | poor | good | poor | good | good | late | good |
| Wakefield..... | fair | fair | fair | poor | good | late | fair |

| <i>Oat</i> | | | | | | |
|-------------------|-----------------------|----------------|----------|-------------|----------------|--|
| Brand-Variety | Crown Rust Resistance | Cold Hardiness | Maturity | Test Weight | Straw Strength | |
| Citation..... | poor | good | medium | good | good | |
| Florida 501..... | poor | poor | early | good | poor | |
| Florida 502..... | fair | poor | early | good | good | |
| GA-Mitchell..... | poor | fair | medium | fair | good | |
| NK Coker 716..... | poor | good | medium | good | good | |
| Ozark..... | poor | good | med-late | fair | poor | |
| Simpson..... | poor | good | medium | good | fair | |

Barley Yellow Dwarf

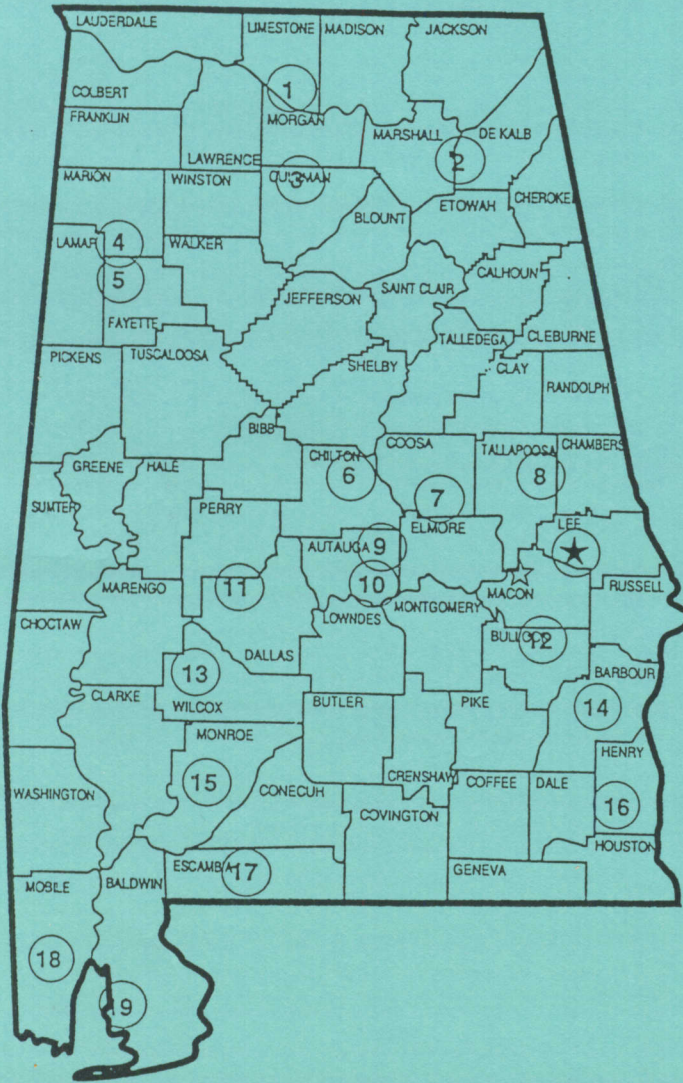
Although Barley Yellow Dwarf is a significant problem in Alabama, no current oat or wheat varieties have adequate resistance to this disease. All oat and wheat varieties are susceptible.

Alabama's Agricultural Experiment Station System

AUBURN UNIVERSITY

★ Main Agricultural Experiment Station, Auburn.

☆ E. V. Smith Research Center, Shorter.



1. Tennessee Valley Substation, Belle Mina.
2. Sand Mountain Substation, Crossville.
3. North Alabama Horticulture Substation, Cullman.
4. Upper Coastal Plain Substation, Winfield.
5. Forestry Unit, Fayette County.
6. Chilton Area Horticulture Substation, Clanton.
7. Forestry Unit, Coosa County.
8. Piedmont Substation, Camp Hill.
9. Forestry Unit, Autauga County.
10. Prattville Experiment Field, Prattville.
11. Black Belt Substation, Marion Junction.
12. The Turnipseed-Ikenberry Place, Union Springs.
13. Lower Coastal Plain Substation, Camden.
14. Forestry Unit, Barbour County.
15. Monroeville Experiment Field, Monroeville.
16. Wiregrass Substation, Headland.
17. Brewton Experiment Field, Brewton.
18. Ornamental Horticulture Substation, Spring Hill.
19. Gulf Coast Substation, Fairhope.