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Disease Reactions

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Wheat, oats, barley, and rye are tested annually at several locations throughout Alabama by the Auburn University Agricultural Experiment Station. These tests are designed to provide information on relative performance of varieties in given regions of the State and may not reflect absolute yielding potential. Entries selected for testing are commercially available varieties and experimental lines from public and private sources which show potential for use in Alabama.

Small grain variety tests were conducted at 12 locations during the 1979-80 season. Most variety tests were planted during the months optimal for establishment and growth (late September to early November). Good stands were obtained at all locations. Adequate rainfall and mild temperatures allowed varieties to produce large amounts of forage this season. Warm spring temperatures in early March were interrupted by a short period of extremely cold temperatures and wind, which caused severe leaf burn and some stand reduction. Yield of early maturing varieties may have been reduced by these conditions. Stand losses in variety tests are tabulated in table 6.

In Alabama, small grains are grown for grain only, for forage and grain, and for forage only. To evaluate performance of small grains under these three management practices, three series of plots were used. The first series was managed for grain production only. The second series was clipped during the fall and winter as growth permitted, to evaluate

1/Research Associate, Department of Agronomy and Soils
forage production and the effect of its removal on subsequent grain production. In this series, the final forage harvest for the season was made no later than early March, prior to jointing. In both series, wheat, oat, and barley varieties were evaluated. The third series, at Brewton, Prattville, and Belle Mina, was clipped throughout the growing season until no regrowth occurred in order to determine total forage production of wheat, oat, barley, rye and triticale varieties. At nine locations, varieties of rye and 3 varieties of triticale were also tested for forage production only.

The experimental design for the tests was a split plot with species as main plots and varieties as subplots. Plots consisted of three rows spaced 10 to 12 inches apart and 16 feet long. Each management series was replicated three times. Recommended cultural practices were followed and proved the same for all entries within a management series at a location. Plots clipped for forage were fertilized with 100 pounds of nitrogen per acre at planting, and grain only plots were given 20 pounds of nitrogen per acre at planting. Both series of plots received 60 pounds of nitrogen in late February or early March.

Forage dry matter yields were obtained by clipping the entire plot, determining percent moisture content, and converting the plot green weight to pounds of dry matter per acre. Two methods were used to harvest grain. At Fairhope, Brewton, Monroeville, Headland, Camden, Tallassee, Prattville, Camp Hill, Winfield, and Crossville, a small plot combine was used and the entire plot was harvested. At Marion Junction and Belle Mina, the center row of the plot was cut by hand and threshed on a stationary thresher.
In either case, grain samples were air dried, cleaned, weighed, and yield was calculated on a bushels per acre basis. For conversion to bushels per acre the following values were used: wheat, 60 lb./bu; oats, 32 lb./bu; and barley, 48 lb./bu.

Since growing conditions and performance may vary among locations, regional averages are used to give a better indication of variety performance for a region. Where data are available, averages over several years are included.

Table 1 shows forage and grain yields and total feed production values for clipped plots and grain yields for unclipped plots. Grain yield, lodging, plant height, and date when one-tenth headed for clipped plots are given in table 2. Similar data for unclipped plots are given in table 3. Lodging is given as the percent of the stand that is broken or leaning and would likely be missed or shattered by a combine. Height is the average height of the plants measured from the soil surface to the tips of the heads. Date when one-tenth headed is the date when approximately 10 percent of the plants show fully emerged heads.

Yields of varieties tested for production of forage only, at Brewton, Prattville, and Belle Mina, are given in table 4. Rye and triticale forage yields are presented in table 5.

Disease ratings for wheat, oat, and barley varieties are presented in tables 7, 8, and 9. Several diseases occur in small grains, but only those that are most common in Alabama are included here. Disease ratings were made when most varieties were in the soft dough stage. Generally, disease incidence and severity were moderate to heavy. Septoria blotch and leaf rust were most prevalent on wheat at this time. Powdery mildew, which
had been prevalent on wheat earlier in the growing season (February and March), was negligible by the time of readings. Disease data were compiled by Dr. Robert T. Gudauskas, Department of Botany, Plant Pathology, and Microbiology.

Varieties are recommended by region for (1) forage and grain production combined, (2) grain production only, and (3) forage production only. Variety recommendations in this report are for general regions of the State, and are based on performance at several locations in each region. Recommendations are made on the basis of at least 3 years data, however performance over a longer period is considered when data are available. Varieties that show exceptional performance over a 2-year period are recommended on a trial basis.
Acknowledgments

Appreciation is expressed to the following people: W.H. Hearn and Mrs. Sally Bagwell, Research Data Analysis for the computation and summarization of data in this report; R.T. Gudauskas, Dept. of Botany, Plant Pathology, and Microbiology for making the disease ratings and the disease reaction tables in this report; and Brenda Hood for typing this manuscript. Also, appreciation is expressed to the following cooperators in charge of their respective substations:

NORTHERN ALABAMA

Tennessee Valley Substation, Belle Mina - W.B. Webster, Superintendent
Sand Mountain Substation, Crossville - J.T. Eason, Superintendent
Upper Coastal Plain Substation, Winfield - R.A. Moore, Superintendent

CENTRAL ALABAMA

Black Belt Substation, Marion Junction - L.A. Smith, Superintendent
Experiment Field, Prattville - F.T. Glaze, Superintendent
Piedmont Substation, Camp Hill - W.A. Griffey, Superintendent
Plant Breeding Unit, Tallassee - Larry Walker, Superintendent

SOUTHERN ALABAMA

Experiment Field, Brewton - J.A. Pitts, Superintendent
Experiment Field, Monroeville - J.A. Pitts, Superintendent
Gulf Coast Substation, Fairhope - E.L. Carden, Superintendent
Lower Coastal Plain Substation, Camden - J.A. Little, Superintendent
Wiregrass Substation, Headland - J.G. Starling, Superintendent
Table 1. FORAGE AND GRAIN YIELDS OF SMALL GRAIN VARIETIES TESTED, 1976-80

<table>
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<th>Variety</th>
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Table 1. (Cont'd) FORAGE AND GRAIN YIELDS OF SMALL GRAIN VARIETIES TESTED, 1976-80

CENTRAL ALABAMA

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1/ Due to cold weather during the 1978-79 season, no forage harvests were made at Camp Hill. Forage data for 1979 are from Marion Junction, Prattville, and Tallassee.
Table 1. (Cont'd) FORAGE AND GRAIN YIELDS OF SMALL GRAIN VARIETIES TESTED, 1976-80

SOUTHERN ALABAMA

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<th>Variety</th>
<th>Yield of clipped plots, average</th>
<th>Clipped forage</th>
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1/ No grain was harvested from the clipped plots at Fairhope during the 1979-80 season. Grain data for 1980 are from Camden, Headland, Brewton, and Monroeville.
Table 2. GRAIN YIELD AND OTHER CHARACTERISTICS OF CLIPPED SMALL GRAIN VARIETIES TESTED, 1976-80

NORTHERN ALABAMA

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<th>Regional average yield per acre</th>
<th>Other characteristics 3-yr av. 1978-80</th>
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**WHEAT**
- Coker 747: Bu. 34, Bu. 35, Bu. 36, Bu. 38, Bu. 36, Pct. 16, In. 34, Date 4/22
- Arthur: Bu. 34, Bu. 33, Bu. 35, Bu. 37, Bu. 32, Pct. 4, In. 37, Date 4/21
- Coker 68-15: Bu. 29, Bu. 29, Bu. 29, Bu. 33, Bu. 31, Pct. 3, In. 34, Date 4/22
- Ga. 1123: Bu. 21, Bu. 24, Bu. 24, Bu. 29, Bu. 27, Pct. 7, In. 44, Date 4/24
- Wakeland: Bu. 18, Bu. 19, Bu. 24, Bu. 27, Bu. 26, Pct. 18, In. 41, Date 4/24
- Delta Queen: Bu. 16, Bu. 16, Bu. 19, Bu. 24, Pct. 11, In. 52, Date 4/25
- McNair 1003: Bu. 25, Bu. 28, Bu. 32, Pct. 1, In. 34, Date 4/22
- Coker 762: Bu. 27, Bu. 26, Bu. 29, Pct. 8, In. 29, Date 4/25
- McNair 1813: Bu. 21, Bu. 23, Bu. 22, Pct. 22, In. 33, Date 4/18
- Southern Belle: Bu. 33, Bu. 34
- Coker 79-16: Bu. 33
- Coker 79-20: Bu. 32
- Pioneer S78: Bu. 30
- VA-75-54-53: Bu. 30
- Roy: Bu. 29
- Omega 78: Bu. 25
- Rosen: Bu. 24

**OATS**
- Coker 716: Bu. 81, Bu. 79, Bu. 82, Bu. 82, Bu. 75, Pct. 6, In. 41, Date 4/28
- Coker 227: Bu. 70, Bu. 67, Bu. 76, Bu. 81, Bu. 74, Pct. 14, In. 39, Date 4/24
- Coker 76-16: Bu. 73, Bu. 63, Bu. 69, Pct. 27, In. 35, Date 4/26
- Coker 79-21: Bu. 89
- Coker 79-23: Bu. 80
- Brooks: Bu. 66

**BARLEY**
- Barsoy: Bu. 48, Bu. 46, Bu. 39, Bu. 43, Bu. 45, Pct. 46, In. 28, Date 4/8
- Volbar: Bu. 49, Bu. 39, Bu. 39, Bu. 43, Bu. 45, Pct. 13, In. 35, Date 4/19
- Keowee: Bu. 43, Bu. 44, Bu. 41, Bu. 42, Bu. 42, Pct. 21, In. 32, Date 4/18
- Surry: Bu. 37, Bu. 29, Bu. 30, Pct. 37, In. 50, Date 4/14
- VA-75-42-55: Bu. 31
### Table 2. (Cont'd) GRAIN YIELD AND OTHER CHARACTERISTICS OF CLIPPED SMALL GRAIN VARIETIES TESTED, 1976-80

#### CENTRAL ALABAMA

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1/ The small grain variety test was not clipped at Camp Hill in the 1978-79 season. Grain yields from this location are not included in the 1979 grain yield averages. Grain yields are averages from Marion Junction, Prattville, and Tallassee.
Table 2. (Cont'd) GRAIN YIELD AND OTHER CHARACTERISTICS OF CLIPPED SMALL VARIETIES TESTED, 1976-80

SOUTHERN ALABAMA

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<td>(14) (14) (14)</td>
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| OATS             |                             |                       |
| Coker 227        | 56 62 55 62 62              | 23 39 4/12            |
| Elan             | 41 47 42 51 54              | 18 33 4/15            |
| Fla. 501         | 32 41 37 47 47              | 33 34 4/11            |
| Coker 76-16      | 58 69 63 69 69              | 43 38 4/15            |
| Coker 79-21      | 75                           |                       |
| Coker 76-20      | 48                           |                       |
| Brooks           | 30                           |                       |

1/No grain was harvested from the clipped plots during the 1979-80 season at Fairhope. Grain yields for 1980 are from Camden, Headland, Brewton, and Monroeville.
Table 3. GRAIN YIELD AND OTHER CHARACTERISTICS OF UNCLIPPED SMALL GRAIN VARIETIES TESTED, 1976-80

<table>
<thead>
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Table 3. (Cont'd) Grain Yield and Other Characteristics of Unclipped Small Grain Varieties Tested, 1976-80

**Central Alabama**

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CENTRAL ALABAMA
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<th>Headland</th>
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Table 5. FORAGE YIELD OF RYE VARIETIES TESTED FOR FORAGE ONLY, 1978-1980
Table 6. ESTIMATED PERCENT STAND LOSS OF SMALL GRAIN VARIETIES DUE TO WINTERKILL DURING THE 1979-80 SEASON

<table>
<thead>
<tr>
<th>Variety</th>
<th>Northern Alabama</th>
<th>Central Alabama</th>
<th>Southern Alabama</th>
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<td></td>
<td>Clipped</td>
<td>Unclipped</td>
<td>Clipped</td>
</tr>
<tr>
<td>WHEAT</td>
<td>%</td>
<td>%</td>
<td>%</td>
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<tr>
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<td>8</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>Coker 762</td>
<td>1</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>Coker 797</td>
<td>-1/</td>
<td>-</td>
<td>96</td>
</tr>
<tr>
<td>Coker 68-15</td>
<td>7</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Coker 79-16</td>
<td>1</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>Delta Queen</td>
<td>19</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Ga. 1123</td>
<td>11</td>
<td>0</td>
<td>-</td>
</tr>
<tr>
<td>Holley</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>McNair 1003</td>
<td>11</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>McNair 1813</td>
<td>19</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>Omega 78</td>
<td>11</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>Rosen</td>
<td>2</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Roy</td>
<td>3</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Southern Belle</td>
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<td>1</td>
</tr>
<tr>
<td>VA-75-54-53</td>
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<td>1</td>
<td>2</td>
</tr>
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<td>24</td>
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<td>OATS</td>
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<tr>
<td>Brooks</td>
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<td>Fla. 501</td>
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</table>

1/Dashes indicate that the variety was not tested in that region during the 1979-80 season.
Table 7. Disease ratings for wheat varieties in 1979-80 tests in Alabama

<table>
<thead>
<tr>
<th>Variety</th>
<th>Powdery(^2/) mildew</th>
<th>Leaf(^2/) rust</th>
<th>Septoria(^2/) blotch</th>
<th>Loose(^3/) smut</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABLE NORTHERN ALABAMA *</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Abe</td>
<td>3.3</td>
<td>1.0</td>
<td>4.1</td>
<td>0</td>
</tr>
<tr>
<td>Arthur</td>
<td>3.0</td>
<td>1.0</td>
<td>3.8</td>
<td>0</td>
</tr>
<tr>
<td>Arthur 71</td>
<td>3.0</td>
<td>1.0</td>
<td>4.3</td>
<td>0</td>
</tr>
<tr>
<td>Coker 68-15</td>
<td>3.3</td>
<td>0</td>
<td>4.1</td>
<td>0</td>
</tr>
<tr>
<td>Southern Belle(^4/)</td>
<td>4.0</td>
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<td>6.0</td>
<td>0</td>
</tr>
<tr>
<td>Coker 762</td>
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<td>0</td>
<td>3.6</td>
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</tr>
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<tr>
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<td>0.2</td>
<td>4.4</td>
<td>0</td>
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<tr>
<td>Ga. 1123</td>
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<td>0.3</td>
<td>4.5</td>
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<tr>
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<td>4.3</td>
<td>0</td>
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<tr>
<td>McNair 1813(^4/)</td>
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CENTRAL ALABAMA

<table>
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<th>Leaf(^2/) rust</th>
<th>Septoria(^2/) blotch</th>
<th>Loose(^3/) smut</th>
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<td>Abe</td>
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<td>3.1</td>
<td>0</td>
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<tr>
<td>Arthur</td>
<td>2.8</td>
<td>1.8</td>
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<td>Arthur 71</td>
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<td>0</td>
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<td>1.4</td>
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<td>Roy(^4/)</td>
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\(^1/\)Averages of 3 year's data unless indicated otherwise.

\(^2/\)0-9 scale; 0 = no disease, 9 = severe disease.

\(^3/\)Number smutted heads per 16 feet of row.

\(^4/\)One year's data.

\(^5/\)Two year's data.

\(*/1978-79 data.

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Table 7 (cont'd).  Disease ratings for wheat varieties in 1979-80 tests in Alabama

<table>
<thead>
<tr>
<th>Variety</th>
<th>Powdery mildew</th>
<th>Leaf rust</th>
<th>Septoria blotch</th>
<th>Loose smut</th>
</tr>
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<td><strong>SOUTHERN ALABAMA</strong></td>
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<tr>
<td>Abe5/</td>
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<td>1.5</td>
<td>2.4</td>
<td>0</td>
</tr>
<tr>
<td>Arthur 715/</td>
<td>2.2</td>
<td>0.2</td>
<td>2.8</td>
<td>0</td>
</tr>
<tr>
<td>Coker 68-15</td>
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<td>0.3</td>
<td>4.5</td>
<td>0</td>
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<tr>
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<td>0.3</td>
<td>4.3</td>
<td>0</td>
</tr>
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<td>4.6</td>
<td>0</td>
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</tr>
<tr>
<td>McNair 1813</td>
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</tr>
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<td>0.6</td>
<td>6.3</td>
<td>0</td>
</tr>
<tr>
<td>Roy4/</td>
<td>4.3</td>
<td>3.3</td>
<td>4.0</td>
<td>0</td>
</tr>
<tr>
<td>Southern Belle5/</td>
<td>3.9</td>
<td>2.4</td>
<td>5.1</td>
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</tr>
<tr>
<td>Va-75-54-534/</td>
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<td>3.0</td>
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<td>0.5</td>
<td>3.0</td>
<td>0.3</td>
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</tbody>
</table>

1/ Averages of 3 years' data unless indicated otherwise.
2/ 0-9 scale; 0 = no disease, 9 = severe infection.
3/ Number smutted heads per 16 feet of row.
4/ One year's data.
5/ Two year's data.
*1978-79 data
Table 8. Disease ratings for oat varieties in 1979-80 tests in Alabama.!

<table>
<thead>
<tr>
<th>Variety</th>
<th>Barley yellow dwarf²/</th>
<th>Leaf blotch³/</th>
<th>Leaf rust⁴/</th>
<th>Loose smut⁴/</th>
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<tr>
<td><strong>NORTHERN ALABAMA</strong></td>
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<td></td>
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<tr>
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<td>0</td>
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<tr>
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<td>1.0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Coker 77-23⁵/</td>
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<td>1.6</td>
<td>0</td>
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<td>0</td>
</tr>
<tr>
<td>Firecracker⁵/</td>
<td>8.3</td>
<td>1.3</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>CENTRAL ALABAMA</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carolee</td>
<td>2.0</td>
<td>2.2</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Coker 76-205/</td>
<td>5.0</td>
<td>3.5</td>
<td>0</td>
<td>7.5</td>
</tr>
<tr>
<td>Coker 79-25⁵/</td>
<td>2.5</td>
<td>3.0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Coker 227</td>
<td>2.6</td>
<td>3.0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Coker 716</td>
<td>1.1</td>
<td>2.8</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Elan⁸/</td>
<td>2.8</td>
<td>2.2</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Firecracker⁵/</td>
<td>8.3</td>
<td>1.3</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Salem</td>
<td>1.5</td>
<td>2.4</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>SOUTHERN ALABAMA</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brooks⁵/</td>
<td>0</td>
<td>2.0</td>
<td>6.0</td>
<td>0</td>
</tr>
<tr>
<td>Coker 76-16</td>
<td>3.0</td>
<td>2.0</td>
<td>0.3</td>
<td>0</td>
</tr>
<tr>
<td>Coker 76-20⁵/</td>
<td>1.0</td>
<td>2.7</td>
<td>0.3</td>
<td>2.7</td>
</tr>
<tr>
<td>Coker 79-215/</td>
<td>1.0</td>
<td>2.7</td>
<td>1.7</td>
<td>3.0</td>
</tr>
<tr>
<td>Coker 227</td>
<td>5.0</td>
<td>2.0</td>
<td>0.3</td>
<td>0</td>
</tr>
<tr>
<td>Elan</td>
<td>3.9</td>
<td>2.7</td>
<td>2.8</td>
<td>0</td>
</tr>
<tr>
<td>Firecracker⁵/</td>
<td>0.8</td>
<td>2.8</td>
<td>0.4</td>
<td>0</td>
</tr>
<tr>
<td>Fla. 501</td>
<td>6.0</td>
<td>3.1</td>
<td>2.7</td>
<td>0</td>
</tr>
</tbody>
</table>

1/Averages of 3 years' data unless indicated otherwise.
2/Percentage of plants showing symptoms.
3/0-9 scale; 0= no disease, 9 = severe infection
4/Number smutted heads per 16 feet of row.
5/One year's data.
6/Two year's data
*1978-79 data.
Table 9. Disease ratings for barley varieties in 1979-80 tests in Alabama

<table>
<thead>
<tr>
<th>Variety</th>
<th>Powdery mildew</th>
<th>Spot blotch</th>
<th>Net blotch</th>
<th>Leaf rust</th>
<th>Scald</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barsoy</td>
<td>0</td>
<td>2.4</td>
<td>1.9</td>
<td>0.5</td>
<td>2.6</td>
</tr>
<tr>
<td>Keowee</td>
<td>0</td>
<td>1.1</td>
<td>0.6</td>
<td>0.2</td>
<td>0</td>
</tr>
<tr>
<td>Surry</td>
<td>0</td>
<td>3.1</td>
<td>2.0</td>
<td>0.3</td>
<td>0.7</td>
</tr>
<tr>
<td>Volbar</td>
<td>0</td>
<td>2.5</td>
<td>1.8</td>
<td>0.8</td>
<td>1.7</td>
</tr>
</tbody>
</table>

1/0-9 scale; 0 = no disease, 9 = severe infection. Averages of 3 years' data.

2/Two years' data.
VARIETIES RECOMMENDED FOR FORAGE AND GRAIN

Recommendations are based on regional yield of forage and grain. The ratio of (forage: total feed) in percent, is given with each variety and should be considered in varietal selection. Varieties are listed alphabetically. For disease ratings see tables 7, 8, and 9.

### NORTHERN ALABAMA

<table>
<thead>
<tr>
<th>Wheat</th>
<th>Forage ratio</th>
<th>Oats</th>
<th>Forage ratio</th>
<th>Barley</th>
<th>Forage ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arthur</td>
<td>(19)</td>
<td>Coker 227</td>
<td>(15)</td>
<td>Barsoy</td>
<td>(24)</td>
</tr>
<tr>
<td>Coker 68-15</td>
<td>(32)</td>
<td>Coker 716</td>
<td>(14)</td>
<td>Keowee</td>
<td>(18)</td>
</tr>
<tr>
<td>Coker 747</td>
<td>(18)</td>
<td>Coker 76-16</td>
<td>(22)</td>
<td>Surry</td>
<td>(30)</td>
</tr>
<tr>
<td>Coker 7622/</td>
<td>(31)</td>
<td></td>
<td></td>
<td>Volbar</td>
<td>(16)</td>
</tr>
<tr>
<td>Ga. 1123</td>
<td>(38)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>McNair 1003</td>
<td>(28)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wakeland</td>
<td>(40)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### CENTRAL ALABAMA

<table>
<thead>
<tr>
<th>Wheat</th>
<th>Forage ratio</th>
<th>Oats</th>
<th>Forage ratio</th>
<th>Barley</th>
<th>Forage ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abe</td>
<td>(44)</td>
<td>Coker 227</td>
<td>(49)</td>
<td>Barsoy</td>
<td>(60)</td>
</tr>
<tr>
<td>Arthur</td>
<td>(48)</td>
<td>Coker 716</td>
<td>(44)</td>
<td>Surry</td>
<td>(66)</td>
</tr>
<tr>
<td>Arthur 71</td>
<td>(47)</td>
<td>Coker 76-16</td>
<td>(50)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coker 68-15</td>
<td>(66)</td>
<td>Salem 1/</td>
<td>(53)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coker 747</td>
<td>(50)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coker 7622/</td>
<td>(66)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>McNair 1003</td>
<td>(65)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>McNair 1813</td>
<td>(63)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oasis</td>
<td>(48)</td>
<td></td>
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<tr>
<td>Wakeland</td>
<td>(72)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### SOUTHERN ALABAMA

<table>
<thead>
<tr>
<th>Wheat</th>
<th>Forage ratio</th>
<th>Oats</th>
<th>Forage ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coker 68-15  $\frac{1}{2}$</td>
<td>(56)</td>
<td>Coker 227 $\frac{1}{2}$</td>
<td>(49)</td>
</tr>
<tr>
<td>Coker 747 $\frac{1}{2}$</td>
<td>(41)</td>
<td>Coker 76-16</td>
<td>(50)</td>
</tr>
<tr>
<td>Coker 7622/</td>
<td>(58)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Delta Queen $\frac{1}{2}$</td>
<td>(64)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Holley $\frac{1}{2}$</td>
<td>(61)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>McNair 1003 $\frac{1}{2}$</td>
<td>(57)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>McNair 1813 $\frac{1}{2}$</td>
<td>(60)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wakeland</td>
<td>(67)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1/If present trends continue, this variety will be removed from the recommended list for forage and grain next year in the region indicated.

2/Previously tested as Coker 76-22.
VARIETIES RECOMMENDED FOR GRAIN ONLY

Recommendations are based on regional yields of grain. Varieties are listed alphabetically. For disease ratings see tables 7, 8, and 9. For lodging values see table 3.

<table>
<thead>
<tr>
<th>Region</th>
<th>Wheat</th>
<th>Oats</th>
<th>Barley</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NORTHERN ALABAMA</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Arthur</td>
<td>Coker 227(^1)/</td>
<td>Barsoy</td>
</tr>
<tr>
<td></td>
<td>Coker 68-15</td>
<td>Coker 716</td>
<td>Volbar</td>
</tr>
<tr>
<td></td>
<td>Coker 747</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Coker 762(^2)/</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Delta Queen(^1)/</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ga. 1123(^1)/</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>McNair 1003</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>McNair 1813</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>CENTRAL ALABAMA</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Abe</td>
<td>Coker 227(^1)/</td>
<td>Barsoy</td>
</tr>
<tr>
<td></td>
<td>Arthur</td>
<td>Coker 716</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Arthur 71</td>
<td>Coker 76-16 (^1)/</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Coker 747</td>
<td>Salem (^1)/</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Coker 762(^2)/</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>McNair 1003</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>McNair 1813(^1)/</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Oasis</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>SOUTHERN ALABAMA</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Coker 747</td>
<td>Coker 227</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Coker 762(^2)/</td>
<td>Coker 76-16</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Delta Queen(^1)/</td>
<td>Elan(^1)/</td>
<td></td>
</tr>
<tr>
<td></td>
<td>McNair 1003</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

\(^1\)/If present trends continue, this variety will be removed from the recommended list for grain only next year in the region indicated.

\(^2\)/Previously tested as Coker 76-22.
Rye recommendation for all 3 regions are based on 2- and 3-year averages of full-season forage yield found in tables 4 and 5. Wheat, oat, and barley recommendation for the Northern and Southern regions are based on 2-year averages of full-season forage yield at Belle Mina and Brewton, respectively. Wheat, oat, and barley recommendation for the Central region are based on 3-year averages of full-season forage yield at Prattville. Wheat, oat, and barley yields for all regions are in table 5. Varieties are listed alphabetically.

### Northern Alabama

<table>
<thead>
<tr>
<th>Rye</th>
<th>Wheat 2/</th>
<th>Oats 2/</th>
<th>Barley 2/</th>
</tr>
</thead>
<tbody>
<tr>
<td>Athen's Abruzzi</td>
<td>Arthur</td>
<td>Coker 227</td>
<td>Barsoy</td>
</tr>
<tr>
<td>Bonel</td>
<td>Coker 747</td>
<td>Coker 716</td>
<td>Keowee</td>
</tr>
<tr>
<td>Gurley's Grazer 2000</td>
<td>Oasis</td>
<td>Coker 76-16</td>
<td>Surry</td>
</tr>
<tr>
<td>Maton</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>McNair Vita Grazer 1/</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NF 74</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NF 722/</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wintergrazer 70</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wren's Abruzzi 1/</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Central Alabama

<table>
<thead>
<tr>
<th>Rye</th>
<th>Wheat 3/</th>
<th>Oats 3/</th>
<th>Barley 3/</th>
</tr>
</thead>
<tbody>
<tr>
<td>Athen's Abruzzi 1/</td>
<td>Coker 68-15</td>
<td>Coker 227</td>
<td>Barsoy</td>
</tr>
<tr>
<td>Bonel</td>
<td>Coker 747</td>
<td>Coker 716</td>
<td>Surry</td>
</tr>
<tr>
<td>Gurley's Grazer 2000</td>
<td>McNair 10032/</td>
<td>Coker 76-162/</td>
<td></td>
</tr>
<tr>
<td>Maton</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>McNair Vita Grazer 1/</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NAPB SR-80</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NF 722/</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>NF 742/</td>
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</tr>
<tr>
<td>Weser 1/</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wintergrazer 70</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wren's Abruzzi 1/</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Southern Alabama

<table>
<thead>
<tr>
<th>Rye</th>
<th>Wheat 4/</th>
<th>Oats 4/</th>
<th>Barley 4/</th>
</tr>
</thead>
<tbody>
<tr>
<td>Athen's Abruzzi 1/</td>
<td>Coker 68-15</td>
<td>Coker 227</td>
<td>Barsoy</td>
</tr>
<tr>
<td>Bonel</td>
<td>Coker 747</td>
<td>Coker 76-16</td>
<td></td>
</tr>
<tr>
<td>Gurley's Grazer 2000</td>
<td>Coker 762</td>
<td>Holley</td>
<td></td>
</tr>
<tr>
<td>Maton</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>McNair Vita Grazer 1/</td>
<td></td>
<td>Weland</td>
<td></td>
</tr>
<tr>
<td>NF 72</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NF 74</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weser 1/</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wintergrazer 70</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wren's Abruzzi 1/</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1/If current trends continue, this variety will be removed from the recommended list for forage only next year in the region indicated.
2/Recommended on a trial basis, based on a 2-year average yield at Belle Mina. See table 4.
3/Recommendation based on a 3-year regional average at one location. See table 4.
4/Recommended on a trial basis, based on a 2-year average yield at Brewton. See table 4.
SOURCES OF SEED

RYE
AFC 20-20------------------------Alabama Farmers Coop,
Decatur, Alabama
Athen's Abruzzi, Weser---------------Georgia Seed Development
Commission, Athens, Georgia
Bonel, Maton, NF 72, NF 74--------Noble Foundation,
Ardmore, Oklahoma
Gurley's (All varieties)------------Gurley's Inc., Selma,
North Carolina
McNair Vita Graze-----------------Northrup King Co.,
Laurinburg, North Carolina
NAPB SR-80------------------------North American Plant Breeders,
Brookston, Indiana
Wintergrazer 70-------------------Pennington Seed Inc.
Madison, Georgia
Wren's Abruzzi---------------------Alabama Crop Improvement Association,
Inc., Auburn, Alabama

WHEAT
Abe, Athur 71---------------------Alabama Crop Improvement Association,
Inc., Auburn, Alabama
Arthur, Oasis---------------------Agricultural Alumni Seed Improvement
Association, Inc.
Romney, Indiana
Coker (All varieties)-------------Coker's Pedigreed Seed Company,
Hartsville, South Carolina
Delta Queen, Southern Belle-------North American Plant Breeders,
Brookston, Indiana
Ga. 1123, Holley, Omega 78-------Georgia Seed Development Commission,
Athens, Georgia
McNair (All varieties)-----------Northrup King Co.,
Laurinburg, North Carolina
Pioneer S78----------------------Pioneer Hi-Bred International Inc.,
Tipton, Indiana
Rosen-----------------------------Northeast Branch Research and Extension
Center, Keiser, Arkansas
Roy--------------------------------North Carolina Foundation Seed Producer's
Inc., Raleigh, North Carolina
VA-75-54-53----------------------Virginia Polytechnic Institute and State
University, Blacksburg, Virginia
Wakeland------------------------Alabama Crop Improvement Association,
Inc., Auburn, Alabama

OATS
Brooks, Salem---------------------North Carolina Foundation Seed Producers,
Inc., Raleigh, North Carolina
Coker (All varieties)-------------Coker's Pedigreed Seed Company,
Hartsville, South Carolina
Elan-------------------------------Georgia Seed Development Commission,
Athens, Georgia
Fla. 501--------------------------Alabama Crop Improvement Association,
Inc., Auburn, Alabama
BARLEY
Barsoy------------------------Department of Agronomy, University of Kentucky, Lexington, Kentucky
Keowee------------------------South Carolina Crop Improvement Association, Clemson, South Carolina
Surry, VA-75-42-55-------------Virginia Polytechnic Institute and State University, Blacksburg, Virginia
Volbar------------------------Department of Agronomy, University of Tennessee, Knoxville, Tennessee

TRITICALE
AM (All varieties)-------------Alabama A&M University
                              Normal, Alabama