Cultivars and elite breeding lines submitted by 18 cooperators as well as all entries in the boll-budworm resistant and frego bract regional tests were evaluated for Fusarium wilt resistance under field conditions at Tallassee, Alabama. These materials were evaluated on a Wickham sandy loam soil which was highly infested with both the Fusarium wilt fungus \( \text{Fusarium oxysporum} \) Schlect. f. \( \text{vasinfectum} \) (Atk.) Snyd. & Hans.] and root-knot nematodes \( \text{Meloidogyne} \) spp.).

Susceptible ('Rowden') and resistant ('McNair 511') cultivars were included as checks. Rowden was planted in row 5 (15, 25, ..., 265) and McNair 511 in row 10 (20, 30, ..., 270) and then in every tenth row throughout the test. Entries submitted by Wiley C. Johnson as well as those in both the boll-budworm and frego bract regional tests are listed by cultivar name or line designation. Entries submitted by other cooperators are listed by the breeder's code. Additional information regarding the genetic background of a specific coded entry should be obtained from the given cooperator. Six replications of entries in the regional wilt and boll-budworm resistant tests and five replications of entries in the frego bract regional test, arranged in systematically randomized complete block designs, were evaluated.

This is a progress report for information and guidance of cooperators, the interpretation of which may be modified with additional experimentation.

Research Plant Pathologist, USDA-SEA-AR, Adjunct Assistant Professor, Department of Agronomy and Soils.
The first planting of this test made April 24 resulted in excellent emergence and early seedling growth; however, a sandstorm over the weekend of May 13 reduced stands on 90% of the test to less than 10 plants per row. Consequently, the entire test was replanted on May 18. Good stands were also obtained from this second planting and plots thinned to one plant per 3 to 4 inches. Initial live plant counts were made July 10. Wilted plants were pulled and recorded July 20, August 1, and August 17. Final live plant counts were then taken on August 27. Differences between the initial and final live plant counts were attributed to wilt losses. Percent wilted plants per plot and mean wilting percentages for a given entry were then determined.

Average wilting over the entire test (162 plots) for McNair 511 was 5.3% but incidence ranged from 0 to 22.2%. The mean incidence of wilting in Rowden ranged from 18.2 to 97.4% and averaged only 54% for the entire test. The mean wilting in the resistant check, McNair 511, was the lowest ever since this entry has been tested while that for Rowden was the lowest in the past 16 years. This low incidence of wilt may be attributed partially to the late planting, thus later maturation of the plants, as well as the fairly droughty growing season.

Since wilting varied in different areas of a given replication, partially due to the large number of entries in the tests, as well as over replications, critical evaluation of a given entry should be made relative to those checks closest to the entry within each replication. Evaluation of breeding progress or evaluation of entries over years probably should be made only between values determined relative to the mean wilting of Rowden for a given year.
### Regional Cotton Fusarium Wilt Results, 1978

**Plant Breeding Unit, Tallassee, Alabama**

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| BW 76-31  | 1.6 0 2.3 11.4 4.7 2.1 | 3.7 |
| PD 695 frego  | 7.7 0 17.9 12.5 52.2 25.0 | 19.2 |
| PD 8619  | 1.9 0 6.0 7.1 0 8.5 | 3.9 |
| McNair 511  | 3.6 0 6.3 0 5.1 3.6 | 3.1 |
| NC-177-16-C2  | 6.1 7.3 9.7 4.1 10.0 19.2 | 9.4 |
| LA HG83-3 Sm  | 7.3 2.7 4.3 12.5 5.6 2.4 | 5.8 |
| LA HG83-7  | 0 0 3.2 2.4 4.8 13.3 | 4.0 |
| Stoneville 213(Std)  | 13.6 5.3 25.9 7.8 23.8 5.0 | 13.6 |
| Rowden  | 74.5 23.2 76.5 83.3 92.3 47.4 | 66.2 |
| HG 431  | 0 9.7 11.4 33.3 25.0 11.8 | 15.2 |
| HG 469  | 12.1 10.7 0 9.5 12.8 9.4 | 9.1 |
| Redleaf  | 95.5 21.9 26.4 82.4 92.5 85.5 | 67.4 |

<p>| Frego Bract Regional Strains Test | |
| Frego 142  | 6.2 3.9 4.3 6.1 8.5 8.5 | 5.8 |
| McNair 511  | 13.8 5.5 1.9 12.7 17.5 10.3 | 10.3 |
| La. 572 fg ne  | 9.8 25.9 5.7 10.8 22.6 15.0 | 15.0 |
| La. 677 fg ne  | 17.6 8.0 6.5 21.2 30.6 16.8 | 16.8 |
| PD 695 fg  | 19.6 21.2 24.1 20.0 13.2 19.6 | 19.6 |
| 78 BAR B fg-2  | 6.7 44.8 6.8 11.2 12.3 16.4 | 16.4 |
| Rowden  | 89.9 58.9 64.2 72.9 50.0 67.2 | 67.2 |</p>
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