

1978  
Regional  
Cotton  
Fusarium  
Wilt  
Report

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# 1978 REGIONAL COTTON FUSARIUM WILT REPORT<sup>1</sup>

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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 [Fusarium oxysporum Schlect. f. vasinfectum (Atk.) Snyder & Hans.] and root-knot nematodes (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.

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<sup>1</sup> This is a progress report for information and guidance of cooperators, the interpretation of which may be modified with additional experimentation.

<sup>2</sup> 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

Test entry designation	Percent wilt by replication						Mean
	1	2	3	4	5	6	
Larry L. Barton, Rogers Delinted Cottonseed Co., Waco, Texas							
LLB-1	48.3	18.9	9.5	3.4	6.3	21.7	18.0
LLB-2	78.6	78.8	24.6	22.0	43.3	68.2	52.6
LLB-3	14.9	22.0	1.8	22.6	9.8	13.2	14.0
LLB-4	8.7	7.7	13.6	7.2	6.0	14.3	9.6
Rowden	62.1	68.7	75.4	20.3	19.8	89.4	56.0
LLB-5	18.4	2.7	43.1	12.0	14.0	48.8	23.2
LLB-6	3.4	4.4	8.3	---	3.9	14.9	7.0
LLB-7	28.8	22.4	77.8	12.9	36.2	72.1	41.7
LLB-8	32.4	20.0	8.8	10.7	24.2	43.9	33.3
McNair 511	6.6	0	0	4.2	5.5	7.5	4.0
LLB-9	5.1	19.3	13.8	25.9	10.8	38.1	18.8
LLB-10	8.9	6.0	50.6	17.2	18.8	26.5	21.3
J. B. Weaver, Univ. of Georgia, Athens, Georgia							
JBW-1	1.4	5.8	0	3.5	18.2	4.0	5.5
JBW-2	3.0	16.7	30.3	3.2	7.8	1.9	10.5
Rowden	37.5	52.5	45.8	55.9	65.5	52.0	51.5
JBW-3	1.4	3.6	2.9	4.0	2.0	4.4	3.0
JBW-4	8.5	4.5	3.8	9.0	3.4	1.1	5.0
JBW-5	24.4	1.1	15.7	7.3	8.3	14.4	11.9
JBW-6	15.8	1.8	1.6	6.3	0	2.0	4.6
McNair 511	10.2	9.3	14.3	6.5	7.0	6.1	8.9
JBW-7	0	0	4.8	0	0	12.5	2.9
JBW-8	4.8	5.3	0	3.8	0	4.5	3.1
L. S. Bird, Texas A&M Univ., College Station, Texas							
Blank-SU-77	4.3	7.3	11.1	1.9	6.9	---	6.3
Camd-SE-77	2.9	0	3.3	20.3	0	3.8	5.0
Rowden	50.7	76.8	72.0	18.2	44.6	52.2	52.4
Camd-HE-77	16.2	28.8	9.6	0	2.0	10.0	11.1
Mar-17-77	7.2	3.9	1.7	0	11.3	1.9	4.3
Mar-26-77	1.8	2.0	5.2	---	2.2	9.3	4.1
LEBO-77	11.9	3.6	4.6	5.7	2.3	0	4.7
McNair 511	1.6	4.3	0	8.8	1.7	4.2	3.4
ORS-77	4.8	10.7	6.7	16.3	53.7	11.3	17.2
ORMAR-SB-77	3.4	13.5	3.6	1.8	3.3	8.3	5.6
ORSBO-77	1.4	2.3	1.6	5.4	5.5	3.7	3.3
ORH-77	17.4	24.1	40.5	7.5	32.4	28.0	25.0
Rowden	42.2	33.3	74.7	25.3	55.2	26.9	42.9
ORHLE-77	2.9	5.8	7.5	10.4	3.1	2.6	5.4
ORHBO-77	26.5	12.2	5.7	13.3	---	44.0	20.3
GN-77	14.7	4.1	15.7	0	5.6	---	8.0
Camd-E	10.3	26.3	7.6	5.3	1.4	13.2	10.7
McNair 511	10.3	4.3	3.7	0	1.7	14.8	5.8
Camd-H	5.4	7.7	4.8	1.2	13.8	5.1	6.3
Camd-S	1.6	7.4	5.4	1.9	1.7	3.9	3.6

Test entry designation	Percent wilt by replication						Mean
	1	2	3	4	5	6	
W. P. Sappenfield, Univ. of Mo. Delta Center, Portageville, Missouri							
MO-1	5.5	26.8	7.1	1.6	3.3	0	7.4
MO-2	1.7	8.3	5.9	3.7	5.7	6.9	5.4
Rowden	28.4	38.3	44.8	26.7	71.6	85.0	49.1
MO-3	1.8	2.8	1.6	12.5	0	0	3.1
MO-4	1.5	3.2	6.9	13.3	15.6	4.7	7.5
MO-5	0	1.8	1.7	0	1.6	3.6	1.4
MO-6	3.7	10.7	2.0	3.7	2.7	0	3.8
McNair 511	1.8	14.6	2.1	7.8	0	4.2	5.1
MO-7	5.6	11.1	0	25.0	7.5	4.3	8.9
MO-8	2.0	5.9	0	9.5	1.9	1.9	3.5
MO-9	1.3	5.9	0	3.7	2.9	16.0	5.0
MO-10	1.8	2.4	2.0	1.5	0	1.8	1.6
Rowden	47.8	65.4	19.5	57.1	44.3	94.8	54.8

Jerry L. Baker, Pioneer Hi-Bred Internat'l Inc., Vernon, Texas

Pioneer-1	17.3	8.5	0	12.7	14.1	12.3	10.8
Pioneer-2	3.6	8.6	13.7	11.7	14.3	17.5	11.6
Pioneer-3	10.0	4.3	1.9	24.2	2.4	17.2	10.0
Pioneer-4	42.1	6.9	7.3	1.6	1.8	0	10.0
McNair 511	4.0	3.2	0	14.9	5.8	3.7	5.3
Pioneer-5	8.5	3.8	0	6.7	4.7	0	4.0
Pioneer-6	5.3	6.4	0	5.8	1.9	16.2	5.9
Pioneer-7	7.3	3.2	1.7	0	4.1	20.0	6.0
Pioneer-8	0	5.6	6.6	11.5	8.5	17.2	8.2
Rowden	41.9	43.5	47.7	24.7	52.3	22.2	38.7
Pioneer-9	5.7	7.7	1.9	3.8	2.0	6.5	4.6
Pioneer-10	14.3	5.6	4.5	6.1	11.0	5.9	7.9

Roger G. Ward, Delta & Pine Land Co., Lubbock, Texas

DPL-1	7.3	5.0	6.9	1.7	18.4	14.8	9.0
DPL-2	12.3	15.5	0	4.8	8.0	7.3	8.0
McNair 511	6.0	0	5.2	16.1	0	19.1	7.7
DPL-3	5.3	0	1.9	4.8	0	0	2.0
DPL-4	3.6	1.9	6.9	18.6	5.9	7.7	7.4
DPL-5	1.8	10.9	0	2.2	0	8.2	3.8
DPL-6	0	5.8	1.9	19.6	1.9	9.1	6.4
Rowden	32.3	75.8	57.7	33.3	25.2	56.9	46.9
DPL-7	0	0	8.6	0	15.3	1.8	4.3
DPL-8	9.6	4.1	2.7	9.4	0	2.1	4.6
DPL-9	18.3	2.0	8.5	10.6	2.9	3.6	7.6
DPL-10	0	5.4	17.4	27.9	2.0	23.1	12.6
McNair 511	7.1	5.5	6.2	12.1	0	0	5.2

Gene Douglas, Hollandale Agr. Service, Hollandale, Mississippi

HAS 1801	5.2	3.8	8.8	2.8	0	3.6	4.0
HAS 1802	0	6.1	7.8	14.3	2.7	4.1	5.8
HAS 1803	1.8	2.2	2.7	0	1.7	5.2	2.3
HAS 1804	0	2.1	6.0	3.7	0	5.5	2.9
Rowden	57.1	61.1	76.5	24.2	26.2	41.5	47.8

Test entry designation	Percent wilt by replication						Mean
	1	2	3	4	5	6	
Gene Douglas, Hollandale Agr. Service, continued							
HAS 1805	1.9	0	7.1	10.0	5.2	1.8	4.3
HAS 1806	1.5	0	0	7.3	3.0	1.9	2.3
HAS 1807	4.1	2.0	25.7	1.7	8.8	4.2	7.8
HAS 1808	2.1	0	12.3	1.8	17.9	3.9	6.3
McNair 511	3.4	0	17.1	2.2	2.0	3.2	4.6
HAS 1809	4.3	12.8	54.5	11.1	3.0	73.7	26.6
HAS 1810	1.6	4.9	0	0	0	3.6	1.7

## Keith R. Jones, Delta &amp; Pine Land Co., Scott, Mississippi

KRJ-1	0	2.0	1.4	2.2	5.6	1.8	2.2
KRJ-2	3.5	4.0	0	4.4	1.7	0	2.3
Rowden	57.3	56.2	50.0	30.4	34.3	88.2	52.7
KRJ-3	1.9	0	4.8	0	3.3	3.2	2.2
KRJ-4	1.9	7.4	13.0	1.8	3.7	0	4.6
KRJ-5	5.1	4.1	1.7	0	0	10.7	3.6
KRJ-6	1.8	11.1	1.6	2.8	2.8	1.8	3.6
McNair 511	1.7	2.4	3.5	0	0	3.5	1.8
KRJ-7	13.3	0	11.1	20.0	10.2	3.6	9.7
KRJ-8	1.4	14.3	5.3	0	3.8	20.0	7.5
KRJ-9	11.1	2.4	5.1	10.1	4.9	1.8	5.9
KRJ-10	0	22.2	13.8	7.7	2.2	3.4	8.2
Rowden	51.7	51.7	64.1	60.0	34.2	72.4	55.7

## Shelby H. Baker, Coastal Plain Exp. Station, Tifton, Georgia

Gat-1	8.7	18.6	2.8	7.5	7.0	16.0	10.1
Gat-2	6.5	9.5	0	2.9	4.8	3.2	4.5
Gat-3	2.2	7.5	7.4	17.9	10.0	3.8	8.1
Gat-4	8.3	2.3	13.0	5.4	11.5	3.8	7.4
McNair 511	6.4	2.0	0	0	18.9	6.5	5.6
Gat-5	0	0	0	2.9	0	2.2	0.8
Gat-6	25.6	0	0	3.6	2.6	4.5	6.0
Gat-7	2.1	0	0	0	0	0	0.4
Gat-8	24.2	3.9	10.0	9.8	0	0	8.0
Rowden	34.2	42.4	65.6	59.3	27.8	60.3	48.3
Gat-9	9.6	3.6	1.9	3.8	4.7	1.8	4.2
Gat-10	7.5	0	15.0	2.4	2.3	3.9	5.2

## C. W. Manning, Stoneville Pedigreed Seed Co., Stoneville, Mississippi

Stoneville-1	10.7	2.0	7.4	2.0	0	12.7	5.8
Stoneville-2	8.9	8.2	0	1.9	1.7	0	3.4
McNair 511	8.7	10.4	0	0	5.9	0	4.2
Stoneville-3	---	29.1	0	0	10.2	25.0	12.9
Stoneville-4	10.9	3.7	4.5	0	0	6.5	4.3
Stoneville-5	3.6	0	7.9	3.8	0	0	2.6
Stoneville-6	13.8	27.0	45.7	2.0	6.8	12.8	18.0
Rowden	43.1	67.6	71.9	45.0	28.6	16.9	45.5
Stoneville-7	1.9	0	5.8	8.7	0	26.5	7.2
Stoneville-8	3.6	0	7.4	3.3	0	4.3	3.1
Stoneville-9	6.2	22.6	4.4	4.1	0	7.5	7.5
Stoneville-10	2.9	0	4.6	1.9	0	1.9	1.9
McNair 511	3.8	3.5	5.2	3.4	4.3	0	3.4

Test entry designation	Percent wilt by replication						Mean
	1	2	3	4	5	6	
Jack E. Jones, La. State Univ., Baton Rouge, Louisiana							
J-1	4.8	5.7	0	4.0	0	11.3	4.3
J-2	3.9	4.2	2.4	12.7	0	5.6	4.8
J-3	4.0	0	1.6	0	0	6.8	2.1
J-4	18.3	6.6	12.1	6.2	9.6	6.7	9.9
Rowden	39.4	47.9	36.5	44.1	45.0	66.1	46.5
J-5	0	0	8.5	14.5	4.2	24.7	8.6
J-6	3.8	21.1	10.1	0	6.2	5.6	7.8
J-7	9.8	32.6	42.5	7.1	4.8	0	16.1
J-8	5.9	8.9	2.9	0	0	0	3.0
McNair 511	5.5	0	8.3	7.0	5.0	0	4.3
J-9	7.6	5.2	26.5	5.1	3.4	40.8	14.8
J-10	9.4	1.8	2.9	0	5.1	1.9	3.5

L. M. Verhalen, Okla. State Univ. Stillwater, Oklahoma

Okla-1	8.8	2.6	15.0	2.2	2.6	0	5.2
Okla-2	4.0	11.3	9.3	8.3	0	17.7	8.4
Rowden	25.9	66.7	48.4	54.1	31.3	60.3	47.8
Okla-3	10.9	15.4	20.8	4.2	7.7	20.0	13.2
Okla-4	3.1	3.8	10.9	10.7	2.4	2.0	5.5
Okla-5	3.8	3.6	0	8.7	10.5	0	4.4
Okla-6	2.0	12.0	7.9	4.3	4.2	7.1	6.2
McNair 511	3.4	6.4	4.9	1.7	2.6	0	3.2
Okla-7	2.5	2.2	10.0	4.7	2.1	7.1	4.8
Okla-8	1.8	4.0	9.6	10.2	0	6.3	5.3
Okla-9	5.1	5.7	3.4	4.7	2.3	12.7	5.6
Okla-10	0	0	7.1	12.5	1.8	1.7	3.8
Rowden	38.2	49.3	61.2	37.8	51.7	78.8	52.8

James L. Helm, McNair Seed Co., Laurinburg, North Carolina

McNair-1	0	6.2	18.1	0	0	13.0	6.2
McNair-2	11.3	28.9	16.1	7.3	7.0	23.8	15.7
McNair-3	5.5	7.7	6.9	0	1.7	12.2	5.7
McNair-4	2.3	9.1	5.7	0	0	4.4	3.6
McNair 511	4.0	12.0	2.0	2.0	8.0	1.9	5.0
McNair-5	94.3	75.9	75.3	72.0	56.9	85.5	76.6
McNair-6	20.3	19.1	20.4	4.4	2.3	17.6	14.0
McNair-7	1.6	1.8	2.1	0	0	0	0.9
McNair-8	12.9	3.2	2.1	2.2	0	3.8	4.0
Rowden	28.9	61.5	71.9	72.0	29.4	82.1	57.6
McNair-9	1.8	0	1.4	2.3	3.7	1.8	1.8
McNair-10	2.4	16.0	6.5	2.4	0	4.8	5.4

Delbert C. Hess, ACCO Seed, Plainview, Texas

ACCO-1	11.1	0	17.5	14.3	2.3	24.5	11.6
ACCO-2	3.0	4.3	1.9	0	2.1	0	1.9
McNair 511	0	2.5	10.6	5.5	11.8	0	5.1
ACCO-3	11.9	4.2	5.9	25.4	5.9	2.3	9.3
ACCO-4	17.2	4.4	10.8	6.4	0	3.5	7.0
ACCO-5	7.2	2.3	12.9	11.1	14.9	5.9	9.0
ACCO-6	26.7	2.8	7.3	2.2	9.3	10.4	9.8
Rowden	62.2	57.9	40.0	80.0	52.9	62.9	59.3
ACCO-7	6.2	6.4	1.1	3.6	4.5	5.4	4.5

Test entry designation	Percent wilt by replication						Mean
	1	2	3	4	5	6	
Delbert C. Hess, ACCO Seed, continued							
ACCO-8	7.4	2.0	0	2.8	4.8	13.3	5.0
ACCO-9	22.7	1.9	9.8	0	2.1	4.6	6.8
ACCO-10	6.8	37.5	19.7	3.6	7.3	4.8	13.3
Henry W. Webb, Coker Pedigreed Seed Co., Hartsville, South Carolina							
McNair 511	22.2	7.5	0	3.8	11.0	4.2	8.1
Coker-1	15.5	0	4.2	3.6	5.7	2.6	5.3
Coker-2	13.6	18.2	12.3	10.5	15.1	3.9	12.3
Coker-3	5.7	2.0	3.7	0	4.0	2.5	3.0
Coker-4	15.8	9.1	0	0	2.0	.9	4.6
Rowden	62.5	97.4	45.2	35.2	42.3	29.4	52.0
Coker-5	3.4	0	3.4	13.4	0	2.4	3.8
Coker-6	3.1	2.0	9.8	5.4	4.4	4.5	4.9
Coker-7	3.8	5.0	20.8	0	2.1	3.4	5.8
Coker-8	4.2	5.1	0	4.1	8.3	1.5	3.9
McNair 511	9.8	6.4	20.8	4.9	4.3	2.7	8.2
Coker-9	4.5	2.4	0	4.8	3.7	4.1	3.2
Coker-10	14.3	25.5	4.6	8.8	14.3	14.7	13.7
A. L. Germany, Bobshaw Pedigree Seed Co., Stoneville, Mississippi							
Bobshaw-1	3.8	4.9	6.7	7.8	0	5.9	4.8
Bobshaw-2	3.3	10.0	4.5	0	3.9	2.0	4.0
Rowden	69.7	47.1	37.8	63.8	41.9	86.2	57.8
Bobshaw-3	11.3	5.0	11.0	8.3	9.8	13.1	9.8
Bobshaw-4	16.1	4.3	9.2	1.8	2.0	6.9	6.7
Bobshaw-5	3.6	0	11.5	2.0	7.0	2.6	4.4
Bobshaw-6	4.7	2.2	5.1	0	4.2	1.8	3.0
McNair 511	17.6	1.9	6.8	3.8	2.2	1.6	5.6
Bobshaw-7	38.2	51.9	5.5	34.1	68.8	42.6	40.2
Bobshaw-8	0	1.5	4.1	3.7	4.2	0	2.2
Bobshaw-9	0	0	4.4	0	0	4.2	1.4
Bobshaw-10	0	1.8	5.4	4.2	4.3	2.6	3.0
Rowden	42.3	72.5	33.3	45.0	88.3	36.7	53.0
T. W. Culp, USDA-SEA-AR, Florence, South Carolina							
Culp-3	8.5	0	4.8	10.0	6.9	0	5.0
Culp-4	0	4.5	3.3	14.8	2.0	7.5	5.4
Culp-5	1.6	6.9	13.4	2.1	8.0	2.0	5.7
Culp-6	0	5.0	6.1	2.0	---	28.9	8.4
McNair 511	1.6	0	6.1	0	4.7	2.0	2.4
Culp-7	12.5	3.9	22.4	11.1	---	36.5	17.3
Culp-8	7.1	11.9	20.8	0	16.7	21.7	13.0
Culp-9	2.0	5.4	6.7	13.2	6.7	12.2	7.7
Culp-10	0	9.8	18.0	0	10.0	6.1	7.3
Rowden	83.3	77.0	50.4	33.3	97.2	75.4	69.4
Wiley C. Johnson, Auburn University, Auburn, Alabama							
Coker 304	5.4	6.7	21.0	3.0	8.1	18.8	10.5
Stoneville 213	8.2	5.7	17.6	16.1	37.9	18.2	17.3
Coker 310	1.8	24.1	19.4	16.0	5.1	6.1	12.1
Deltapine 55	6.7	7.8	4.8	9.7	0	0	4.8
McNair 511	3.8	2.0	4.6	13.3	0	10.2	5.6

Test entry designation	Percent wilt by replication						Mean
	1	2	3	4	5	6	
Wiley C. Johnson, Auburn University, continued							
Coker 315	25.0	12.5	1.0	3.4	2.1	2.1	7.7
Deltapine 61	11.2	0	13.2	0	7.0	1.8	5.5
Coker 420	6.3	4.8	0	13.6	11.5	5.1	6.9
Deltapine 7141	3.4	0	12.5	10.8	17.5	1.5	7.6
Rowden	58.6	84.5	24.2	57.6	56.7	37.3	53.2
Coker 3114	30.0	20.0	2.0	5.5	1.8	20.0	13.2
Coker 4601	7.1	5.4	3.2	1.3	8.6	7.4	5.5
McNair 220	3.2	5.0	12.2	9.7	0	9.4	6.6
Stoneville 603	21.1	3.3	2.9	9.4	5.1	24.7	11.1
McNair 511	4.5	13.8	12.5	4.5	0	7.4	7.1
McNair 235	4.7	19.7	6.1	3.1	4.3	2.4	6.7
Delcote 277	3.8	0	1.6	7.0	0	3.4	2.6
Stoneville 731N	31.5	15.3	1.0	---	22.0	25.5	19.1
Auburn 56	0	0	0	25.0	33.3	6.8	10.9
Rowden	57.1	50.7	38.1	94.2	64.4	60.8	60.9
Gumbo	15.4	2.7	8.1	16.4	3.6	11.3	9.6
Hancock	51.5	19.4	15.6	57.5	54.4	43.6	40.3
DPL-7132	6.8	5.1	11.3	5.0	1.8	1.1	5.2
Vail 7	41.6	21.2	12.0	30.4	32.6	15.9	25.6
McNair 511	9.3	1.4	6.8	5.9	4.0	0	4.6
Rex 713	7.6	1.9	13.8	14.0	9.6	4.3	8.5
Coker 6118	1.1	2.9	8.6	3.3	1.6	3.0	3.4
Brycot 4	56.4	10.0	---	16.7	73.1	39.0	39.0
Dixie King III	30.1	4.8	4.3	1.3	1.9	11.1	8.9
Rowden	48.7	91.7	42.4	52.7	92.9	95.4	70.6
Deltapine 25	2.0	9.8	6.7	6.7	8.3	10.0	7.2

#### Boll-Budworm Resistant Regional Cotton Strains Test

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

#### Frego Bract Regional Strains Test

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

Test entry designation	Percent wilt by replication						Mean
	1	2	3	4	5	6	
Frego Bract Regional Strains Test Continued							
78 HERB fg-1	2.1	10.6	0	7.1	23.5		8.7
Stoneville 213	16.1	26.3	3.3	9.3	5.8		12.2
78 TOM fg-2	31.0	6.3	3.2	26.5	8.5		15.1
Coker 201 fg	7.8	4.9	15.4	28.4	9.1		13.1
McNair 511	0	1.6	10.2	16.7	2.0		6.1
ST. 817 fg	22.6	7.8	12.6	24.6	6.7		14.9
Code 18 fg	10.9	7.7	0	15.6	5.9		8.0





*Information contained herein is available to all regardless  
of race, creed, or national origin*