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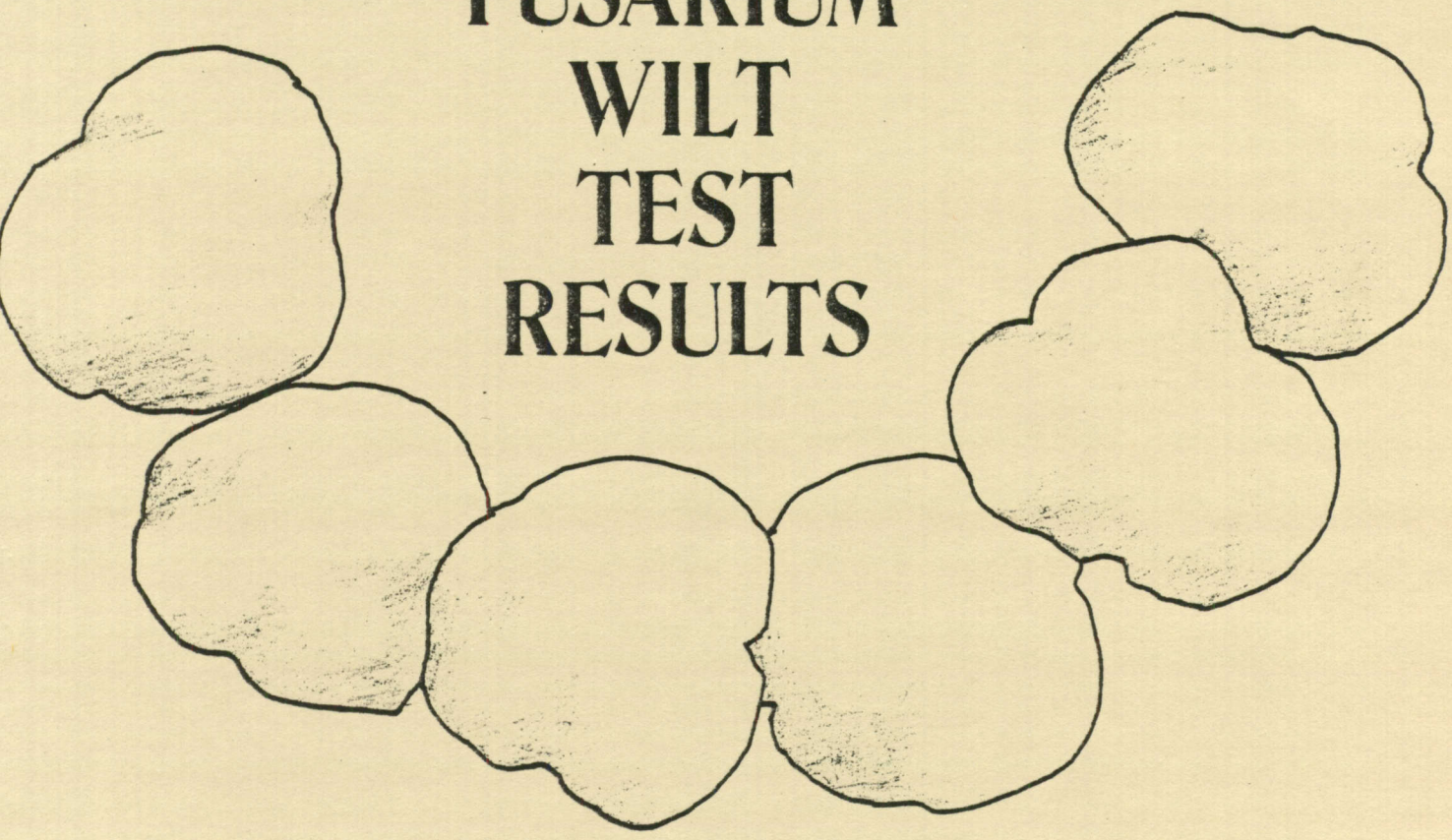
1980 REGIONAL COTTON FUSARIUM WILT TEST RESULTS



1980 REGIONAL COTTON FUSARIUM WILT REPORT[1]

A. J. Kappelman, Jr., and D. P. Moore[2]

Elite breeding lines and cotton cultivars submitted by 25 cooperators 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.) Snyd. & Hans.] and root-knot nematodes (Meloidogyne spp.).

Plots were 40-inch-wide bedded rows 30 feet in length and separated by 6-foot alleys. Cultivars and lines were arranged in a randomized complete block design with four replications. Both susceptible ('Rowden') and resistant ('Stoneville 603') cultivars were included as gradient checks. Rowden was planted in row 5 (15, 25, ..., 305) and Stoneville 603 in row 10 (20, 30, ..., 300) and then in every tenth row thereafter throughout the test.

Plots were planted April 25 and 26, then thinned to three to four plants per foot of row on June 2. Initial live plant counts were taken June 4. Wilted plants were counted and removed three times during the growing season, and counts of remaining live plants were made August 29. Percent wilted plants per plot was determined as differences between initial and final live plant counts. Percent mean wilting for each entry was then calculated.

Environmental conditions greatly affected plant growth as well as wilt incidence and intensity. During the first week after planting, air temperatures

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

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varied from 83 to 52 F and the minimum low temperature averaged 57 F. During May the mean high temperature was 82 F while the mean low temperature was 63 F but varied from 49 to 69 F. In addition, 7.49 inches of rainfall occurred during May. Thus, a considerable amount of seedling disease occurred and plants were extremely unthrifty. From June through September 14, temperatures varied from 82 to 104 F with a mean air temperature of 92 F. During this period only 5.67 inches of rainfall occurred. As a result, plants were extremely drought stressed and early senescence occurred. Wilt symptoms of plants which were already infested with the causal organism progressed rapidly; however, additional infection and symptoms of wilting were difficult to detect.

On August 18, plots were irrigated with 3 inches of water. Following this, some additional wilting occurred but not on early maturing entries. Average wilting over the entire test for Rowden was 70% but wilt incidence of this check ranged from 17 to 100%. In contrast, the mean incidence of wilting in Stoneville 603 was only 30% but ranged from 0 to 68%. As a result of this overlap in wilting between the resistant and susceptible check, entries with intermediate resistance are difficult to classify.

Entries submitted by W. C. Johnson are commonly grown cultivars or highly advanced commercial materials; therefore, these are listed by name. Entries submitted by other cooperators are listed by their coded numbers. Additional information regarding the genetic background of a specific coded entry should be obtained from the given cooperator.

Regional Cotton Fusarium Wilt Test Results, 1980

Plant Breeding Unit, Tallassee, Alabama

Test entry designation	Percent wilt by replication 1	2	3	4	Mean
Jerry D. Carroll, Delta & Pine Land Co., Lubbock, Texas					
JDC-1	69.4	35.7	27.1	4.2	34.1
JDC-2	67.0	24.7	22.5	19.0	33.3
JDC-3	62.5	20.8	25.3	8.2	29.2
JDC-4	37.0	68.1	33.8	17.4	39.1
Rowden	83.3	90.2	56.2	58.5	72.0
JDC-5	22.6	61.8	31.4	31.8	36.9
JDC-6	11.6	21.3	18.3	25.4	19.2
JDC-7	16.3	22.1	30.8	0	17.3
JDC-8	20.5	62.9	20.5	30.8	33.7
ST-605	4.5	12.3	14.6	35.0	16.6
JDC-9	43.8	43.1	15.2	27.9	32.5
JDC-10	17.3	52.9	12.5	18.2	25.2
Luther S. Bird, Texas A & M Univ., College Station, Texas					
TX-CDPS-1-77	28.1	54.4	36.8	28.9	37.0
TX-CDPS-2-78	27.3	7.3	21.5	31.8	22.0
Rowden	73.2	72.2	70.0	81.4	74.2
TX-CAMD-21-S-78	25.9	16.2	25.6	31.2	24.7
TX-LEBO-2-78	12.8	33.3	22.4	45.5	28.5
TX-ORSBO-12-78	38.9	45.2	25.5	27.3	34.2
TX-ORSLE-5-78	29.5	56.1	43.1	32.7	40.4
ST-603	68.3	38.0	27.3	31.8	41.4
TX-ORSLP-2-78	66.7	32.9	17.9	71.4	47.2
TX-Blank-ORSBO-1-78	24.4	1.6	7.8	39.6	18.4
TX-ORHU-1-78	52.5	73.2	23.5	91.9	60.3
Tamcot SP 37H	46.3	25.0	18.6	13.3	25.8
Rowden	65.3	75.4	45.9	73.0	64.9
Robert R. Bridge, Miss. State Univ., Stoneville, Mississippi					
1 DES 422	39.3	25.3	28.8	14.9	27.1
2 DES 422-8	34.6	50.8	22.5	14.7	30.6
3 DES 430	29.3	36.8	44.3	46.2	39.2
4 DES 3545	42.6	41.3	34.0	29.1	36.8
ST-603	20.9	47.4	45.9	16.9	32.8
5 DES 3531	36.1	27.1	53.6	45.1	40.5
6 DES 11-9	21.5	18.8	22.6	7.3	17.6
7 DES 2-37	29.1	55.6	26.9	32.7	36.1
8 DES 014-3N	47.5	22.2	30.8	20.0	30.1
Rowden	79.7	64.8	64.0	52.3	65.2
9 DES 56	63.2	43.4	39.0	50.0	48.9
10 DES 24	70.0	21.2	33.9	44.4	42.4
Lynn McDonald, Coker Pedigreed Seed Co., Hartsville, South Carolina					
Coker L-348	21.3	26.1	36.6	45.7	32.4
Coker L-4360	5.3	7.5	37.8	55.6	26.6
ST-603	30.7	40.6	9.8	49.2	32.6
Coker L-4307	47.6	35.1	30.2	59.4	43.1

Test entry designation	Percent wilt by replication 1	2	3	4	Mean
Lynn McDonald, Coker Pedigreed Seed Co., Hartsville, South Carolina (Cont'd)					
Coker L-6101	50.6	32.7	30.2	41.2	38.7
Coker L-500	59.3	9.5	12.3	29.8	27.7
Coker L-4383	84.9	52.5	20.5	56.9	53.7
Rowden	75.3	58.6	29.5	66.7	57.5
Coker L-5383	54.9	14.5	46.5	42.9	39.7
Coker L-3194	53.6	18.8	17.8	20.3	27.6
Coker 5110	45.0	36.5	25.0	36.8	35.8
Coker 312	26.8	63.0	9.6	24.7	31.0
ST-603	48.7	50.0	9.0	57.8	41.4
W. P. Sappenfield, Univ. of Mo., Portageville, Missouri					
Delcot 311	36.7	20.5	0	29.3	21.6
MO63-277-1B	41.1	46.2	25.3	17.2	32.4
MO73-1203	27.9	63.3	18.9	5.4	28.9
MO74-733	20.0	43.5	42.7	27.9	33.5
Rowden	88.9	100.0	46.8	45.5	70.3
MO75-139	31.6	40.3	30.3	19.5	30.4
MO75-143	45.5	35.0	14.0	24.7	29.8
MO71-1125	35.7	79.3	7.8	34.3	39.3
MO76-45	50.0	38.2	30.3	32.5	37.8
ST-603	24.6	79.1	18.7	9.3	32.9
MO77-28	29.5	25.0	15.6	1.3	17.8
Delbert C. Hess, ACCO Seed, Plainview, Texas					
ACCO 1	17.3	37.3	19.0	0	18.4
ACCO 2	6.2	3.9	36.4	16.4	15.7
ACCO 3	17.9	13.7	20.6	12.7	16.2
Rowden	72.5	64.6	35.3	31.0	50.8
ACCO 4	90.9	19.7	10.6	8.0	32.3
ACCO 5	14.3	21.1	24.7	26.7	21.7
ACCO 6	24.3	23.4	15.7	8.9	18.1
ACCO 7	64.8	47.3	16.7	4.9	33.4
ST-603	55.7	16.3	25.0	3.1	25.0
ACCO 8	31.2	5.8	36.1	3.2	19.1
ACCO 9	23.2	0	18.5	14.8	14.1
ACCO 10	57.9	4.8	2.4	8.2	18.3
L. L. Barton, Rogers Delinted Cottonseed Co., Waco, Texas					
LLB 1	98.5	5.1	19.4	17.9	35.2
Rowden	90.5	83.1	22.7	27.2	55.9
LLB 2	61.6	70.9	22.9	25.0	45.1
LLB 3	31.4	13.2	13.6	25.0	20.8
LLB 4	48.9	52.2	9.0	13.2	30.8
LLB 5	41.8	36.1	22.7	0	25.2
ST-603	15.5	25.7	12.2	0	13.4
LLB 6	37.5	44.4	10.5	20.8	28.3
LLB 7	31.2	30.1	46.3	14.5	30.5
LLB 8	25.4	27.9	34.7	18.6	26.6
LLB 9	11.1	24.4	1.4	21.1	14.5
Rowden	39.7	70.3	21.6	37.5	42.3
LLB 10	31.2	52.6	22.1	0	26.5

Test entry designation	Percent wilt by replication 1	2	3	4	Mean
Carl A. Moosberg, Growers Seed Assoc., Lubbock, Texas					
GSA, 74	13.0	33.3	6.6	25.9	19.7
GSA, 0	29.6	2.8	10.8	11.8	13.8
GSA, 78	12.8	16.5	31.8	28.2	22.3
ST-603	47.3	22.4	8.2	1.2	19.8
VW, 177	21.3	5.4	10.3	14.5	12.9
GSA, 78-4	39.7	25.0	14.3	31.2	27.6
Mason Hawkins, Ranger Seed Co., Tahoka, Texas					
RV-1	19.6	35.2	13.3	34.7	25.7
RV-2	12.7	15.5	4.3	0	8.1
Rowden	62.5	79.7	50.0	56.1	62.1
RV-3	46.8	10.7	18.8	8.9	21.3
Jerry L. Baker, Pioneer, Vernon, Texas					
PR-1	32.5	44.4	28.3	43.4	37.2
PR-2	33.3	27.4	18.9	7.2	21.7
PR-3	26.3	24.6	26.9	17.9	23.9
ST-603	38.5	2.6	31.8	4.7	19.4
PR-4	32.5	16.2	14.6	18.8	20.5
PR-5	34.9	26.9	20.8	8.6	22.8
PR-6	30.3	28.9	12.7	6.8	19.7
PR-7	36.6	23.9	33.3	25.9	29.9
Rowden	69.7	67.9	95.6	60.0	73.3
PR-8	26.7	6.7	39.0	17.9	22.6
PR-9	32.1	50.0	80.9	29.3	48.1
PR-10	42.1	34.1	77.8	30.8	46.2
Shelby H. Baker, Coastal Plains Exp. Sta., Tifton, Georgia					
GaT-1	25.6	7.8	25.0	48.3	26.7
ST-603	31.4	19.4	27.9	27.0	26.4
GaT-2	45.8	8.0	41.4	46.7	35.5
GaT-3	40.0	39.2	21.9	0	25.3
GaT-4	22.0	32.7	61.1	38.5	38.6
GaT-5	28.6	9.3	34.2	11.1	20.8
Rowden	50.0	32.7	90.0	16.7	47.4
GaT-6	36.4	21.0	15.8	35.3	27.1
GaT-7	31.0	34.0	24.2	5.1	23.6
GaT-8	12.3	13.2	41.2	7.6	18.6
GaT-9	21.3	25.4	26.5	8.2	20.4
ST-603	53.7	56.7	32.5	27.9	42.7
GaT-10	65.0	62.2	23.5	43.8	48.6
Linwood Roberts, Northrup King Co., Laurinburg, North Carolina					
NK 1	26.4	73.7	10.3	7.1	29.4
NK 2	19.6	43.1	15.4	32.7	27.7
NK 3	28.9	47.0	42.6	39.5	39.5
Rowden	73.6	100.0	70.9	20.0	66.1
NK 4	56.4	57.1	33.3	10.0	39.2
NK 5	40.0	48.0	20.4	87.8	49.0

Test entry designation	Percent wilt by replication 1	2	3	4	Mean
Linwood Roberts, Northrup King Co., Laurinburg, North Carolina (Cont'd)					
NK 6	55.6	71.2	22.9	41.8	47.9
NK 7	15.8	68.8	30.3	47.6	40.6
ST-603	51.2	47.8	15.5	34.5	37.2
NK 8	43.5	51.2	5.9	22.2	30.7
NK 9	54.2	36.7	30.8	30.2	38.0
NK 10	60.5	86.1	21.5	30.8	49.7
C. W. Manning, Stoneville Pedigreed Seed Co., Stoneville, Mississippi					
Stoneville #1	44.8	63.0	9.7	39.1	39.2
Rowden	55.6	79.5	76.2	81.2	73.1
Stoneville #2	42.6	29.4	13.5	20.0	26.4
Stoneville #3	69.4	14.7	20.0	13.2	29.3
Stoneville #4	55.4	27.6	32.3	73.1	47.1
Stoneville #5	36.1	26.8	10.0	5.8	19.7
ST-603	38.5	1.5	14.3	40.0	23.6
Stoneville #6	60.0	45.5	26.1	2.2	33.4
Stoneville #7	89.5	30.6	35.3	44.4	50.0
Stoneville #8	93.8	23.7	24.6	44.1	46.6
Stoneville #9	68.8	19.2	8.8	54.5	37.8
Rowden	100.0	39.8	76.5	76.9	73.3
Stoneville #10	86.7	14.1	15.6	36.4	38.2
Gene Douglas, Hollandale Seed & Del. Co., Hollondale, Mississippi					
HAS 1001	64.0	0	41.0	10.7	28.9
HAS 1002	26.6	14.6	41.0	36.4	29.6
HAS 1003	36.4	33.3	13.0	0	20.7
ST-603	10.2	12.5	4.5	43.9	17.8
HAS 1004	44.8	0	26.1	19.2	22.5
HAS 1005	44.6	26.1	25.3	23.3	29.8
HAS 1006	26.9	14.1	40.0	29.9	27.7
HAS 1007	47.8	28.4	79.3	30.0	46.4
Rowden	68.6	83.1	83.8	87.5	80.8
HAS 1008	57.4	65.4	10.3	13.6	36.7
HAS 1009	26.4	15.5	47.5	50.0	34.8
HAS 1010	45.7	14.8	20.3	26.4	26.8
Roger G. Ward, Delta & Pine Land Co., Tulare, California					
RW 1	21.1	3.2	22.4	46.9	23.4
ST-603	43.1	13.0	10.4	18.2	21.2
RW 2	44.9	22.0	54.6	4.0	31.4
RW 3	39.1	3.1	7.1	5.7	13.8
RW 4	46.2	19.0	39.6	19.4	31.0
RW 5	17.9	36.4	6.0	19.4	19.9
Rowden	94.0	35.7	87.5	83.8	75.2
Laval M. Verhalen, Okla. State University, Stillwater, Oklahoma					
OKLA 1	28.3	15.9	16.7	25.5	21.6
OKLA 2	26.9	18.2	31.4	35.2	27.9
OKLA 3	46.4	9.5	47.7	26.7	32.6
OKLA 4	36.8	3.3	39.0	40.6	29.9
ST-603	46.2	24.0	53.5	18.5	35.6
OKLA 5	35.9	0	52.5	46.2	33.6

Test entry designation	Percent wilt by replication				Mean
	1	2	3	4	
Laval M. Verhalen, Okla. State University, Stillwater, Oklahoma (Cont'd)					
Westburn M	12.5	24.0	12.8	22.2	17.9
OKLA 7	24.7	20.0	35.9	48.5	32.3
OKLA 8	15.0	32.1	8.9	51.9	27.0
Rowden	64.1	67.6	96.2	96.4	81.1
OKLA 9	18.6	32.1	24.4	40.9	29.0
OKLA 10	7.9	3.3	33.3	57.1	25.4
H. W. Webb, Coker's Pedigreed Seed Co., Hartsville, South Carolina					
Webb 1	32.7	13.7	33.0	39.0	29.6
Webb 2	35.6	5.8	15.9	54.9	28.0
ST-603	22.5	20.8	16.9	18.8	19.8
Webb 3	33.3	65.1	35.7	23.1	39.3
Webb 4	36.6	51.5	49.3	27.8	41.3
Webb 5	33.7	10.0	19.0	14.0	19.2
Webb 6	50.7	50.0	57.4	22.5	45.2
Rowden	56.1	74.6	86.7	64.7	70.5
Webb 7	35.8	43.9	39.7	65.1	46.1
Webb 8	30.1	35.8	27.8	37.8	32.9
Webb 9	55.3	31.8	53.6	13.0	38.4
Webb 10	40.8	20.0	30.9	2.4	23.5
ST-603	57.0	47.8	43.4	31.0	44.8
Jack E. Jones, La. State University, Baton Rouge, Louisiana					
JJ 1	49.0	68.3	14.3	28.8	40.1
JJ 2	27.9	31.7	35.3	13.6	27.1
JJ 3	37.3	16.7	0	21.7	18.9
JJ 4	19.0	49.3	11.9	11.3	22.9
Rowden	83.3	92.5	18.2	97.0	72.8
JJ 5	17.6	17.7	23.9	2.8	15.5
JJ 6	27.5	10.5	21.6	0	14.9
JJ 7	30.8	23.4	28.7	31.6	28.6
JJ 8	29.4	34.7	13.3	8.9	21.6
ST-603	35.2	48.7	45.5	35.0	41.1
JJ 9	51.9	39.3	40.4	9.6	35.3
JJ 10	56.4	30.6	40.0	10.0	34.2
J. S. Boswell, Jr., Coker's Pedigreed Seed Co., Tunica, Mississippi					
Boswell 1	37.2	35.6	18.5	31.7	30.8
Boswell 2	41.4	64.5	30.8	9.4	36.5
Rowden	76.1	77.9	16.9	26.7	49.4
Boswell 3	37.0	29.4	36.8	4.5	26.9
Boswell 4	39.7	20.0	41.9	16.7	29.6
Boswell 5	51.4	20.7	69.0	38.8	45.0
Boswell 6	73.9	50.6	49.3	46.7	55.1
ST-603	44.9	19.0	61.3	22.2	36.8
Boswell 7	17.6	28.3	33.3	38.9	29.5
Boswell 8	57.4	41.3	73.2	36.4	52.1
Boswell 9	53.3	32.4	32.6	17.4	33.9
Boswell 10	62.1	29.8	26.2	18.9	34.2
Rowden	100.0	29.5	81.2	97.9	77.2

Test entry designation	Percent wilt by replication 1	2	3	4	Mean
Keith R. Jones, Delta & Pine Land Co., Scott, Mississippi					
DPL-1	40.0	53.8	50.0	30.6	43.6
DPL-2	71.6	39.7	58.5	19.4	47.3
DPL-3	69.2	31.0	40.0	13.7	38.5
DPL-4	75.4	25.0	16.7	13.3	32.6
ST-603	45.3	25.4	29.3	6.6	26.6
DPL-5	44.4	72.4	42.4	16.2	43.8
DPL-6	28.4	31.8	22.2	15.6	24.5
DPL-7	56.7	41.9	53.1	46.2	49.5
DPL-8	72.1	41.0	43.1	21.6	44.4
Rowden	67.2	56.0	95.9	94.0	78.3
DPL-9	45.2	58.3	91.5	25.8	55.2
DPL-10	47.3	45.9	40.5	55.3	47.2
J. B. Weaver, Univ. of Georgia, Athens, Georgia					
JBW 1	55.2	58.5	69.1	48.1	57.7
JBW 2	25.7	35.7	4.3	40.0	26.4
ST-203	37.2	32.0	34.2	9.1	28.1
JBW 3	66.7	38.0	74.4	72.4	62.9
JBW 4	23.9	8.5	34.4	2.8	17.4
JBW 5	71.4	59.7	58.8	91.7	70.4
R. L. Shepherd, USDA, SEA, AR, Auburn University, Alabama					
RLS-1	24.6	35.7	21.9	13.5	23.9
Rowden	86.9	63.4	94.6	86.8	82.9
RLS-2	23.3	34.5	15.4	0	18.3
RLS-3	29.7	40.0	13.0	34.1	29.2
RLS-4	27.0	4.2	1.8	5.9	9.7
RLS-5	55.3	19.0	51.6	38.5	41.1
ST-603	42.3	26.1	41.9	23.7	33.5
RLS-6	51.1	28.3	34.0	10.4	31.0
RLS-7	38.9	28.6	26.5	32.0	31.5
RLS-8	39.7	32.4	38.2	11.6	30.5
RLS-9	36.6	30.8	14.0	9.1	22.6
Rowden	94.8	46.4	96.8	86.0	81.0
RLS-10	42.1	34.1	34.5	27.9	34.6
RLS-11	29.1	17.5	25.9	36.1	27.2
RLS-12	16.0	10.5	10.3	12.9	12.4
T. W. Culp, USDA, SEA, AR, Pee Dee Experiment Sta., Florence, South Carolina					
TWC 1	37.8	8.3	72.6	48.8	41.9
ST-603	29.0	18.6	30.9	28.4	26.7
TWC 2	43.2	28.1	43.2	22.2	34.2
TWC 3	37.5	23.1	19.4	23.3	25.8
TWC 4	57.1	28.6	66.7	32.1	46.1
TWC 5	51.9	27.3	23.8	34.6	34.4
Rowden	81.6	37.9	71.9	100.0	72.8
TWC 6	54.4	39.1	24.6	51.7	42.4
TWC 7	40.0	16.7	18.2	25.8	25.2
TWC 8	16.4	35.5	29.2	43.2	31.8
TWC 9	52.1	32.0	54.3	57.6	49.0
ST-603	28.1	20.0	27.1	9.8	21.2
TWC 10	24.4	25.6	44.0	28.6	30.6

Test entry designation	Percent wilt by replication				Mean
	1	2	3	4	
W. C. Johnson, Auburn University, Alabama					
Coker 304	48.5	27.5	41.3	34.8	38.0
Coker 310	41.2	36.7	38.7	24.1	35.2
DES 56	40.5	53.2	35.8	12.5	35.5
Rowden	77.9	76.5	88.9	93.5	84.2
Coker 3114	45.8	51.9	14.0	46.8	39.6
Stoneville 506	47.9	50.9	25.0	11.5	33.8
Coker 420	44.2	51.0	31.2	20.6	36.8
Stoneville 213	86.0	90.2	50.0	49.2	68.8
ST-603	28.4	53.5	11.1	33.7	31.7
Stoneville 825	70.2	93.8	67.3	100.0	82.8
DPL-55	8.2	25.6	46.2	25.6	26.4
Coker 3113	30.2	40.7	50.0	23.1	36.0
DPL-41	54.2	53.4	58.6	42.9	52.3
Rowden	84.4	58.1	100.0	85.7	82.0
DPL-26	62.3	35.1	35.6	33.3	41.6
GaCot 79	19.4	54.9	19.5	33.3	31.8
McNair 220	31.6	35.5	36.0	28.6	32.9
GP 3774	36.7	54.7	56.8	33.3	45.4
ST-603	27.5	33.3	24.4	34.1	29.8
GP 3755	75.0	10.0	22.0	33.3	35.1
Delcot 311	20.8	28.3	38.5	13.3	25.2
Vail 7	100.0	17.9	55.6	44.0	54.4
DPL 61	36.9	8.5	31.0	42.9	29.8
Rowden	83.3	26.5	73.2	92.9	69.0
McNair 235	50.8	6.9	16.7	24.0	24.6
Coker 315	77.4	33.3	34.8	31.5	44.2
DPL 7148	66.7	33.8	21.9	15.0	34.4
Hancock	81.8	20.8	40.4	100.0	60.8
ST-603	63.0	1.0	13.4	34.1	27.9
Rex 713	55.8	11.5	0	28.4	23.9
Auburn 56	43.1	24.4	26.1	44.2	34.4
A. J. Kappelman, Jr., USDA, SEA, AR, Auburn University, Alabama					
AK1	17.9	7.6	18.5	9.0	13.2
AK2	15.2	27.4	0	5.7	12.1
Rowden	60.6	60.3	84.8	57.7	65.8
AK3	46.2	40.4	35.0	61.0	45.6
AK4	14.3	7.9	17.6	4.5	11.1
AK5	18.5	26.8	14.8	14.8	18.7
AK6	4.5	15.0	38.6	29.2	21.8
ST-603	28.8	44.7	43.3	27.0	36.0
AK7	19.7	9.1	13.3	1.1	10.8
AK8	13.6	18.8	4.0	10.1	11.6
AK9	42.4	14.1	15.0	17.8	22.3
AK10	27.3	21.4	33.3	22.6	26.2
Rowden	79.2	84.6	71.8	100.0	83.9
AK11	8.6	45.7	30.5	19.7	26.1

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