# REPORT OF THE VERTICILLIUM WILT AND FUSARIUM WILT COMMITTEE -1999

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#### **Verticillium Wilt**

### Tennessee

A. Y. Chambers (Verticillium Wilt Situation and Research in 1999). Verticillium wilt was a relatively minor problem for cotton producers in Tennessee in 1999. Losses were estimated at 0.75 percent. A low level of wilt injury appeared in late August and continued throughout the very hot, dry season that we experienced over most of the cotton-growing areas of the State in 1999.

Fourteen cotton cultivars which were suggested for grower use in 1999 or appeared to have promise for production in Tennessee were planted May 12 at The University of Tennessee Milan Experiment Station at Milan in an experiment to evaluate their response to Verticillium wilt. 'Paymaster H1244', a highly-susceptible cultivar, and 'FiberMax 989', a cultivar with a high level of resistance or tolerance to Verticillium wilt, were included in the experiment for comparing the 14 cultivars. Plots were located on an area which has a history of Verticillium wilt injury and which had moderate wilt damage in 1998. The plot area, in a creek bottom, had been planted for over 20 years in a highly-susceptible cultivar every other year, and evaluation of cultivars for wilt susceptibility was made in alternate years. Seed of the cultivars were packaged and planted with a tractor-mounted cone planter. Terraclor Super X and Temik granules were applied to the seed furrow for seedling disease and early-season insect control. Weather conditions were similar to those that occurred in most of the cotton-producing areas of the State, and light symptoms of wilt developed in late August and continued at a fairly low level.

Cultivars were rated August 30 and rechecked September 9 and 29 for extent of wilt symptoms and injury. Wilt ratings and yields are shown in Table 1. On a scale of 0 to 10 with 10 being the most severe wilt damage, 13 cultivars including FiberMax 989 were rated significantly lower than Paymaster H1244. Fourteen cultivars including Paymaster H1244 were rated significantly higher than FiberMax 989. Ratings were all low and ranged from 1.8 for Paymaster H1244 to 0.1 for FiberMax 989. Thirteen cultivars including FiberMax 989 had significantly higher yields than Paymaster H1244. Six cultivars including Paymaster H1244 had lower yields than FiberMax 989. Five cultivars had yields over 900 pounds of lint per acre under extended drought conditions without

irrigation. Five others had yields over 800 pounds. Except for Paymaster H1244 and possibly 'Paymaster PM 1218 BG/RR', wilt injury appeared to have little effect on yields of cultivars in 1999.

In an adjoining plot area planted May 12, no-tillage and conventional tillage were evaluated for effect on incidence and severity of Verticillium wilt. As in the cultivar evaluation, symptoms of wilt developed at low levels in late August in the Paymaster H1244 cultivar planted and continued with relatively low levels throughout the season. Disease ratings of wilt made August 30 and rechecked September 16 using the 0 to 10 rating scale were significantly lower in the no-till plots than in the conventional-tillage plots (Table 2). Wilt ratings were higher in the plot area than in the adjoining cultivar evaluation experiment. Yields were significantly higher (249 pounds of lint per acre) in no-tillage plots than in conventional tillage (Table 2).

Table 1. Reaction of Cotton Cultivars to Verticillium Wilt, Milan Experiment Station, Milan, TN - 1999.

	Wilt Rating	Yield, Lb	. Lint/A
Cultivar	(0-10)	1st Harvest	Total
FiberMax 989 (ck.)	$0.1 f^{1}$	416 d-h <sup>1</sup>	933 ab1
Sure-Grow SG 125 BR	0.5 ef	351 fgh	684 def
Stoneville ST BXN 47	0.6 def	589 ab	969 a
Deltapine DP 388	0.6 def	569 a-d	896 ab
Deltapine DP 5409	0.7 cde	492 a-f	831 a-d
Sure-Grow SG 747	0.8 b-e	490 a-f	881 ab
Stoneville ST 474	0.8 b-e	582 abc	907 ab
Deltapine DP 409 B/RR	1.0 b-e	505 a-f	878 abc
Paymaster PM 1330 BG	1.0 b-e	522 a-e	842 abc
Stoneville ST 373	1.0 b-e	320 gh	722 cde
Deltapine DP 5111	1.0 b-e	615 a	926 ab
Sure-Grow SG 501 BR	1.1 b-e	388 e-h	774 b-e
Paymaster PM 1560 BG	1.2 bcd	438 b-f	975 a
Deltapine DP 436 RR	1.3 abc	422 c-h	785 b-e
Paymaster PM 1218 BG/RR	1.4 ab	265 h	650 ef
Paymaster H1244 (ck.)	1.8 a	279 gh	553 f
LSD 5%	0.5	142	138

Planted 5/12; wilt rated 8/30, 9/9, and 9/29; harvested 10/4 and 25; ck. = check.

 $^{1}$ Mean figures followed by the same small letter do not differ significantly (P = 0.05, Duncan's New Multiple Range Test).

Table 2. Effects of Tillage on Incidence and Severity of Verticillium Wilt of Cotton, Milan. Experiment Station, Milan, TN - 1999.

	Wilt Ra	ting (0-10)	Yield, Lb. Lint/A.		
Tillage	8/30	9/16	1st Harvest	Total	
Conventional	1.25 a <sup>1</sup>	2.85 a <sup>1</sup>	263 b <sup>1</sup>	541 b <sup>1</sup>	
No-till	0.90 b	2.30 b	421 a	790 a	
LSD 5%	0.24	0.39	95	111	

<sup>&#</sup>x27;Paymaster H1244' planted 5/12; wilt rated 8/30 and 9/16; harvested 10/4 and 25.

(P = 0.05, Duncan's New Multiple Range Test).

<sup>&</sup>lt;sup>1</sup>Mean figures followed by the same small letter do not differ significantly

## **Fusarium Wilt**

### Louisana

P. D. Colyer, W. D. Caldwell, P. R. Vernon, and R. C. Griffin, Louisiana State University Agricultural Center, Red River Research Station, Bossier City, LA. Selected cotton varieties were evaluated for response to the Fusarium wilt/root-knot nematode disease complex on a Norwood very fine sandy loam soil heavily infested with the wilt pathogen (Fusarium oxysporum Schlect. f.sp. vasinfectum [Atk.] (Snyd. & Hans.) )and root-knot nematodes (Meloidogyne incognita [Kofoid &White] Chitwood). Experimental design was a randomized complete block with four replications. Plots were single rows, 45 feet long. Disease ratings were taken on ten plants at the end of the season. Wilt ratings were based on the degree of stem discoloration, and root gall ratings were based on the number of nematode galls formed on the roots.

There were significant differences in wilt and root-gall ratings among cultivars. Stoneville LA887 and Acala Nemx had the lowest wilt ratings, both 0.3, and lowest root-gall ratings, 1.4 and 1.6, respectively.

Table 1. Fusarium wilt and root-knot nematode ratings for cotton varieties at the Red River Research Station, Bossier City, LA, 1999.

Variety	Wilt Rating <sup>a</sup>	Gall Rating <sup>b</sup>
Acala Nemx	0.3	1.6
Agripro AP6102	1.0	2.7
Agripro AP7115	1.7	3.2
Deltapine 20B	1.3	2.6
Deltapine 33B	1.3	3.1
Deltapine 388	1.9	3.3
Deltapine 425RR	1.2	2.4
Deltapine 436RR	0.8	2.7
Deltapine 448B	1.0	2.4
Deltapine 450B/RR	0.5	2.4
Deltapine 458B/RR	0.8	3.4
Deltapine 5415RR	1.5	3.4
FiberMax 0052	2.4	4.0
FiberMax 832	1.4	2.7
FiberMax 989	0.6	3.1
Paymaster 0425	0.5	1.9
Paymaster 1440	1.0	3.3
Paymaster 1560BG	0.7	3.5
Paymaster 1560BG/RR	0.3	2.1
PhytoGen PSC355	0.9	3.4
PhytoGen PSC569	1.8	3.1
PhytoGen PSC636	0.4	2.5
PhytoGen PSC952	1.5	3.0
Stoneville 474	2.2	3.4
Stoneville 4691B	1.9	3.0
Stoneville X9902	1.5	2.7
Stoneville X9903	1.4	3.3
Stoneville BXN47	1.6	2.9
Stoneville LA887	0.3	1.4
Sure-Grow 125	0.7	2.7
Sure-Grow 125RR	0.5	2.2
Sure-Grow 125BG/RR	1.9	2.4
Sure-Grow 501	1.2	2.7
Sure-Grow 501B/RR	1.3	2.5
Sure-Grow 747	0.7	2.7
Sure-Grow 821	1.0	3.1
LSD $(P < 0.05)$	1.1	0.9

<sup>a</sup>Wilt rating on a scale of 0-5; 0=no stem discoloration, 5=complete stem discoloration.

<sup>b</sup>Root-gall rating on a scale of 0-5; 0=no root galling, 5=severe root galling.

Alabama - 1999 National Fusarium Wilt Cotton Report K. M. Glass and W. S. Gazaway, Department of Agronomy and Soils, Auburn University. Department of Plant Pathology, Auburn University, Auburn University, AL. This report is a joint contribution between USDA-ARS, Crop Science Research Laboratory, Mississippi State University, Mississippi, and the Alabama Agricultural Experiment Station, Auburn University, Alabama. Information contained herein is available to all persons regardless of race, color, sex or national origin.

Cotton cultivars and elite breeding lines submitted by 28 cooperators were evaluated for fusarium wilt resistance under field conditions at the E. V. Smith Research Center, Plant Breeding Unit, Tallassee, Alabama. These entries were grown on an Independence loamy fine sand highly infested with both the fusarium wilt fungus (<u>Fusarium oxysporum</u>) Schlect. f. <u>vasinfectum</u> [Atk.] (Snyd. & Hans.) and root-knot nematodes (<u>Meloidogyne incognita</u>.).

Plots were 40-inch-wide rows, 20 feet in length, separated by 5-foot alleys. Four replications of the test entries and checks, arranged in a block design, were evaluated. Both susceptible (Rowden) and resistant (M-315) cultivars were included as checks. Rowden was planted in row 5 and every tenth row thereafter (15, 25,...,265) and M-315 in row 10 and every tenth row thereafter (20, 30,...,270) throughout the test. Plots were planted May 18. Initial plant counts were made on June 23. Wilted plants were counted and removed on July 8, July 29, and August 19. The remaining live plants were counted and recorded on September 10. Percent wilted plants were then determined and mean wilting for a given entry calculated.

Average wilting of the susceptible Rowden was 31, 33, 21, and 21 percent for the four replications (27 percent average). Corresponding wilt percentages for the resistant check, M-315, were 0.7, 1, 2, and 1 percent (1 percent average). Critical evaluation of a given entry should be made relative to the checks closest to the entry within each replication. Evaluation of breeding progress or evaluation of entries over years should be made only between the relative value of this entry and that of the closest susceptible check rows for each year.

In 1994, a soil analysis for nematodes revealed that southern root-knot (<u>Meloidogyne incognita</u>) and lance (<u>Hoplolaimus galeatus</u>) are two predominant nematode species in the test plots. High populations of both species are found throughout the test area. Other nematode genera present are stubby root (<u>Trichodorus</u> sp.) and stunt (<u>Tylenchorhynchus</u> sp.). Root-knot nematodes, however, appear to be causing the major

damage to cotton in the Fusarium Wilt Test as indicated by the high galling indices found on the roots of all cotton lines.

Fusarum wilt was light on all varieties including the susceptible cultivar, Rowden. Early dry conditions caused plants to drop leaves early and made rating wilt difficult.

Entries submitted by Kathryn Glass are commonly grown cultivars or advanced commercial materials and 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 named cooperator.

1999 FUSARIUM WILT TEST E. V. SMITH RESEARCH CENTER, TALLASSEE, ALABAMA

Test entry			Percen	t wilt by	y replic	ation
designation		1	2	3	4	Mean
1 Curtis Willia 72160	ms, Paymaster Cotto	onseed, 2	476 Hw	y. 130 E	ast, Stu	ttgart, AR
001	CW-1	1	0	0	0	0
002	CW-2	0	0	0	6	2
003	CW-3	10	11	6	2	7
004	CW-4	0	10	1	3	4
005	ROWDEN	15	24	12	21	18
006	CW-5	1	0	5	0	2
007	CW-6	0	4	9	0	3
008	CW-7	0	2	2	0	1
009	CW-8	3	2	2	0	2
010	M-315	0	7	8	7	6
	USDA-ARS, Missis	•	•			
011	1	0	4	8	0	3
012	2	2	3	1	0	2
013	3	1	2	1	4	2
014	4	3	0	10	3	4
015	ROWDEN	49	39	7	6	25
016	5	0	6	0	2	2
017	6	1	2	2	0	1
018	7	0	3	0	9	3
019	8				0	7133
020	M-315	0	0	0	0	0
3 Charles Cool 78593	k, United Agri Produ	cts, P.O.	Box 11	49, Sant	a Rosa,	TX
021	CGC-1	2	0	2	13	4
022	CGC-2	8	30	5	14	15
023	CGC-3	9	25	13	14	15
024	CGC-4	1	28	0	15	11
025	ROWDEN	31	37	16	33	29
026	CGC-5	4	18	2	0	6
027	CGC-6	11	0	0	2	3
028	CGC-7	3	4	0	0	3
029	CGC-8	0	0	4	3	1
030	M-315	0	0	0	0	0
4 Laval M. Ver Stillwater, OK	halen, Oklahoma St 74078-6028	ate Univ	ersity, 3	68 Agrio	cultural	Hall,
031						3
	OKLA-1	1	4	0	6	J
032	OKLA-1 OKLA-2	1 9	4 0	0	6 9	5
032 033						
	OKLA-2	9	0	3	9	5
033	OKLA-2 OKLA-3	9 1	0	3	9 2	5 1
033 034	OKLA-2 OKLA-3 OKLA-4	9 1 0	0 0 7	3 3 1	9 2 11	5 1 5
033 034 035	OKLA-2 OKLA-3 OKLA-4 <b>ROWDEN</b>	9 1 0 <b>44</b>	0 0 7 <b>16</b>	3 3 1 <b>2</b>	9 2 11 <b>11</b>	5 1 5 <b>18</b>
033 034 035 036	OKLA-2 OKLA-3 OKLA-4 <b>ROWDEN</b> OKLA-5	9 1 0 <b>44</b> 1	0 0 7 <b>16</b> 3	3 3 1 <b>2</b> 0	9 2 11 <b>11</b> 1	5 1 5 <b>18</b> 1
033 034 035 036 037	OKLA-2 OKLA-3 OKLA-4 ROWDEN OKLA-5 OKLA-6	9 1 0 <b>44</b> 1	0 0 7 <b>16</b> 3 7	3 3 1 2 0 0	9 2 11 <b>11</b> 1 5	5 1 5 <b>18</b> 1 3
033 034 035 036 037 038	OKLA-2 OKLA-3 OKLA-4 ROWDEN OKLA-5 OKLA-6 OKLA-7	9 1 0 <b>44</b> 1 1 0	0 0 7 <b>16</b> 3 7	3 3 1 2 0 0	9 2 11 <b>11</b> 1 5 3	5 1 5 <b>18</b> 1 3
033 034 035 036 037 038 039 040	OKLA-2 OKLA-3 OKLA-4 ROWDEN OKLA-5 OKLA-6 OKLA-7 OKLA-8	9 1 0 44 1 1 0 2 0	0 0 7 <b>16</b> 3 7 0 3 <b>0</b>	3 3 1 2 0 0 0 3 2	9 2 11 <b>11</b> 1 5 3 4 <b>0</b>	5 1 5 <b>18</b> 1 3 1 3
033 034 035 036 037 038 039 040	OKLA-2 OKLA-3 OKLA-4 ROWDEN OKLA-5 OKLA-6 OKLA-7 OKLA-8 M-315	9 1 0 44 1 1 0 2 0	0 0 7 <b>16</b> 3 7 0 3 <b>0</b>	3 3 1 2 0 0 0 3 2	9 2 11 <b>11</b> 1 5 3 4 <b>0</b>	5 1 5 <b>18</b> 1 3 1 3

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043	AZ-3	0	5	4	0	2
044	AZ-4	0	0	3	0	1
045	ROWDEN	20	35	34	12	25
046	AZ-5	6	4	0	0	2
047	AZ-6	0	4	2	0	1
048	AZ-7	0	4	0	3	2
049	AZ-8	2	10	5	3	5
050	M-315	0	2	0	0	1
00.	n, Dept. of Soil & Cr	op Sci.	, rexas A	A&M U	niv., Co	nege
Station, TX 778						
051	PMT-1	0	41	44	10	24
052	PMT-2	3	17	11	2	87
053	PMT-3	3	13	11	3	8
054	PMT-4	0	6	0	2	2
055	ROWDEN	21	25	34	23	26
056	PMT-5	3	5	6	13	7
057	PMT-6	1	10	1	4	4
058	PMT-7	39	0	6	0	11
059		23	6	0	2	8
	PMT-8			5		
060	M 315	0	0		0	1
	Paymaster Cottonsee	ed, 2476	6 Hwy. 1	30 East	, Stuttg	art, AR
72160						
061	JM-1	6	0	2	0	2
062	JM-2	24	1	2	0	7
063	JM-3	7	0	9	0	4
064	JM-4	17	14	6	0	9
065	ROWDEN	30	17	20	12	20
066	JM-5	2	0	0	1	1
067	JM-6	0	3	15	2	5
068	JM-7	1	4	4	7	4
069	JM-8	3	0	5	2	3
070	M-315	2	0	0	0	1
8 Don Keim, De	Ita and Pine Land Co	o., 100	Main St	reet. Sco	ott, MS	38772
				_		
071	1	0	2	3	6	3
072	2	0	2	2	2	1
073	3	0	1	0	0	0
074	4	0	4	11	4	5
0.7.5	DOMEST					40
075	ROWDEN	33	66	35	24	40
075 076	KOWDEN 5	<b>33</b> 4	<b>66</b> 19	<b>35</b> 11	24 15	<b>40</b> 12
076	5	4	19	11	15	12
076 077	5 6	4 3	19 4	11 2	15 3	12 3
076 077 078 079	5 6 7 8	4 3 3	19 4 1	11 2 15	15 3 6	12 3 6 1
076 077 078 079 080	5 6 7 8 <b>M-315</b>	4 3 3 0 <b>0</b>	19 4 1 0 <b>0</b>	11 2 15 6 <b>0</b>	15 3 6 0 <b>0</b>	12 3 6 1 <b>0</b>
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076 077 078 079 080 9 Randall McPh	5 6 7 8 <b>M-315</b> erson, Phytogen See PX-1	4 3 3 0 0 d Co., I	19 4 1 0 <b>0</b> P.O. Box	11 2 15 6 <b>0</b>	15 3 6 0 <b>0</b> and, MS	12 3 6 1 0 3 38756 2
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076 077 078 079 080 9 Randall McPh 081 082	5 6 7 8 <b>M-315</b> erson, Phytogen See PX-1 PX-2	4 3 0 0 0 d Co., I	19 4 1 0 <b>0</b> P.O. Box 1 0	11 2 15 6 <b>0</b> 27, Lel 3	15 3 6 0 <b>0</b> and, MS 0 5	12 3 6 1 0 3 38756 2 2
076 077 078 079 080 9 Randall McPh 081 082 083 084	5 6 7 8 <b>M-315</b> erson, Phytogen See PX-1 PX-2 PX-3	4 3 3 0 0 d Co., I 1 2 2	19 4 1 0 <b>0</b> P.O. Box 1 0	11 2 15 6 0 27, Lel 3 0	15 3 6 0 <b>0</b> and, MS 0 5	12 3 6 1 0 3 38756 2 2 1
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076 077 078 079 080 9 Randall McPh 081 082 083 084 085	5 6 7 8 <b>M-315</b> erson, Phytogen See PX-1 PX-2 PX-3 PX-4 <b>ROWDEN</b> PX-5	4 3 3 0 0 0 d Co., I 1 2 2 1 44 2	19 4 1 0 <b>0</b> <b>0</b> <b>P.O. Box</b> 1 0 0 2 <b>33</b>	11 2 15 6 <b>0</b> 27, Lel 3 0 0 5 <b>6</b>	15 3 6 0 0 and, MS 0 5 1 8 22	12 3 6 1 0 3 38756 2 2 1 4 26 1
076 077 078 079 080 9 Randall McPh 081 082 083 084 085 086	5 6 7 8 <b>M-315</b> erson, Phytogen See PX-1 PX-2 PX-3 PX-4 <b>ROWDEN</b> PX-5 PX-6	4 3 0 0 0 d Co., I 1 2 2 1 44 2 0	19 4 1 0 <b>0</b> 2.O. Box 1 0 0 2 33 0 1	11 2 15 6 0 27, Lel 3 0 0 5 6 0	15 3 6 0 0 and, MS 0 5 1 8 22 3 3	12 3 6 1 0 8 38756 2 2 1 4 26 1 2
076 077 078 079 080 9 Randall McPh 081 082 083 084 085 086 087	5 6 7 8 <b>M-315</b> erson, Phytogen See PX-1 PX-2 PX-3 PX-4 <b>ROWDEN</b> PX-5 PX-6 PX-7	4 3 3 0 0 0 d Co., I 1 2 2 1 44 2 0 3	19 4 1 0 0 2.O. Box 1 0 0 2 33 0 1 0	11 2 15 6 0 27, Lel 3 0 0 5 6 0 4 7	15 3 6 0 0 and, MS 0 5 1 8 22 3 3 5	12 3 6 1 0 3 38756 2 2 1 4 26 1 2 4
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109 110	PX-16 <b>M-315</b>	2 0	7 <b>0</b>	2 0	0 <b>0</b>	3 <b>0</b>	171 172	MS-1 MS-2	4	7 14	20 12	3	8
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•	reen, Delta and Pine L	and Co., I	P.O. Box	1529, 1	1artsviii	e, SC	174	MS-4	19	2	7	3	8
29551							175	ROWDEN	46	44	22	5	29
111	1	0	3	4	4	3	176	MS-5	2	4	0	0	1
112	2	1	0	0	21	6	177	MS-6	7	0	16	2	6
113	3	3	5	2	4	3	178	MS-7	24	6	5	8	11
114	4	2	0	36	4	10	179	MS-8	4	4	0	0	2
115	ROWDEN	19	39	40	8	27	180	M-315	0	0	0	3	1
116	5	22	14	9	12	14		arefield, Stoneville Pedig	rreed Se	ed Co	2409 Co	mmerce	e I ane
117	6	12	1	0	0	3	Albany, GA		greed Se	cu co.,	2407 C0	, i i i i i i i i i i i i i i i i i i i	c Lanc,
118	7	37	1	13	4	14			20	0	2	-	0
119	8	34	0	17	0	13	181	MB-1	28	0	2	4	9
20	M-315	2	1	3	0	2	182	MB-2	21	11	0	2	8
<ol><li>C. Wayne</li></ol>	e Smith, Dept. of Soil	& Crop S	Sci., Tex	as A & l	M Univ.	, College	183	MB-3	10	24	7	2	11
Station, TX	77843-2474						184	MB-4	0	6	1	8	4
21	1	88	0	4	0	23	185	ROWDEN	28	64	13	10	29
22	2	8	0	0	33	3	186	MB-5	40	16	8	19	21
23	3	33	14	27	1	19	187	MB-6	0	2	3	0	1
24	4	42	6	8	13	17	20 Lloyd M	IcCall, Stoneville Pedigr	eed See	d Co., 24	409 Con	nmerce	Lane,
25	ROWDEN	44	43	19	5	28	Albany, GA			,			,
									0	27	2	7	0
26	5	2	1	5	2	3	188	LM-1	0	27	3	7	9
27	6	16	4	2	5	7	189	LM-2	4	5	3	5	4
28	7	7	0	5	12	6	190	M-315	3	0	0	0	1
29	8	0	1	7	4	3	191	LM-3	0	6	48	3	14
30	M-315	3	0	4	0	2	192	LM-4	0	0	11	6	4
4 O. Lloyd	May, USDA-ARS, 22	200 Pocke	t Road.	Florence	, SC 29	9506-9706	193	LM-5	6	3	4	7	5
31	PD 94056	7	2	3	5	4	194	LM-6	7	11	5	0	6
							21 Steve C	alhoun, Stoneville Pedig	reed See	ed Co. 2	409 Cor	mmerce	Lane
32	PD 94063	4	6	6	2	5	Albany, GA		reca sec	Ju Co., 2	10) 001	mineree	Lane,
33	PD 95034	0	5	0	4	2				_			
34	PD 95079	7	0	2	3	3	195	ROWDEN	21	8	30	37	24
35	ROWDEN	33	16	12	40	25	196	SC-1	13	3	3	6	6
36	PD 96001	5	4	9	9	6	197	SC-2	0	2	9	22	8
37	PD 96005	1	0	4	8	3	198	SC-3	3	11	12	3	7
38	PD 96024	1	6	4	2	3	199	SC-4	3	0	7	2	3
••													2
39	PD 96031	2	9	8	5		200	M-315	2	0	7	1	.,
	PD 96031 M-315	2	9 <b>0</b>	8	5 <b>3</b>	6	200 201	M-315 SC-5	<b>2</b> 4	<b>0</b> 6	7 0	<b>1</b>	<b>3</b>
140	M-315	0	0	3	3	6 <b>2</b>	201	SC-5	4	6	0	0	2
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40 5 Jack E. J. 831 41 42 43 44 45 46 47 48 49 50 6 Gary Rea 51 52 53 54 55 56 57 58 59 60 7 W. P. Sa 61 62 63 64 65 66 67 68 69	M-315 JJ-1 JJ-2 JJ-3 JJ-4 ROWDEN JJ-5 JJ-6 JJ-7 JJ-8 M-315 a, Paymaster Cottonsee  1 2 3 4 ROWDEN 5 6 7 8 M-315 ppenfield, 115 Mango WPS-1 WPS-2 WPS-3 WPS-4 ROWDEN WPS-5 WPS-6 WPS-6 WPS-7	0 46 Maxin 1 3 9 0 26 4 0 13 0 0 ed, RR 2, 0 1 2 1 34 8 2 3 5 3 Cove, Le 0 0 0 0 1 3 4 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 te Drive, 0 2 6 0 14 3 7 0 0 0 15 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	3 Baton F  0 7 2 0 25 6 2 13 0 0 Hale Co 13 6 1 0 22 3 0 0 3 FL 347 20 51 5 4 31 0 3 0	3 Rouge, I  0 11 10 3 70 2 2 4 5 0 enter, T2 7 6 0 3 22 0 3 0 48 8 0 0 0 10 0 5 0	6 2 A 70808-  0 6 7 1 34 4 3 7 1 0  X 79041 5 4 1 3 24 3 1 1 2 1  7 15 1 1 27 1 2 1	201 202 22 Randy V 85239 203 204 205 206 207 208 209 23 Mike Re Albany, GA 210 211 212 213 214 215 216 217 24 Jefferso Greenville, 218 219 220 221 222 223 224 225 25 Forest R 77843	SC-5 SC-6 Wood, Stoneville Pedigre  RW-1 RW-2 ROWDEN RW-3 RW-4 RW-5 RW-6 Distriction Stoneville Pedigre  M-315 MR-1 MR-2 MR-3 MR-4 ROWDEN MR-5 MR-6 In Gwyn, AgrEvo Cotton MS 38701  ACSI EXP0222 ACSI EXP0222 ACSI EXP0221 ACSI EXP0221 ACSI EXP0781 ACSI EXP0781 ACSI EXPIF1000 ROWDEN	4 4 4 2ed Seed  2 0 29 10 1 14 3 2reed Se  0 2 9 4 5 41 8 8 Seed In  7 12 0 0 10 0 2 19 A & M	6 13 1 Co., P.0 6 2 36 4 0 3 3 eed Co., 0 2 6 10 15 39 3 57 tter., 430 2 2 3 0 6 4 0 10 10 10 10 10 10 10 10 10 10 10 10 1	0 0 0 0. Box 5 3 0 15 5 3 15 2 2409 Co 2 0 6 12 19 35 0 15 15 15 10 11 11 11 12 13 15 15 15 15 15 15 15 15 15 15 15 15 15	0 5 569, Ma 2 3 45 7 6 2 5 5 5 5 6 2 2 4 6 0 6 2 11 2 13 3 3 0 3 0 0 3 0 0 0 0 0 0 0 0 0 0 0	2 5 suricopa, 3 1 31 6 3 8 3 e Lane, 1 1 6 8 10 30 4 23 2 East, 1 1 7 1 4 7 4 1 20 ion, TX
40 5 Jack E. J. 831 41 42 43 44 45 46 47 48 49 50 6 Gary Rea 51 52 53 54 55 56 57 58 59 60 7 W. P. Sa 61 62 63 64 65 66 67 68 69 70	M-315 fones, JaJo Genetics, 2  JJ-1 JJ-2 JJ-3 JJ-4 ROWDEN JJ-5 JJ-6 JJ-7 JJ-8 M-315 a, Paymaster Cottonser  1 2 3 4 ROWDEN 5 6 7 8 M-315 ppenfield, 115 Mango WPS-1 WPS-2 WPS-3 WPS-4 ROWDEN WPS-5 WPS-6 WPS-7 WPS-6 WPS-7 WPS-8 M-315	0 446 Maxin 1 3 9 0 26 4 0 13 0 0 ed, RR 2, 0 1 2 1 3 4 8 2 3 5 3 7 0 0 0 3 4 0 1 2 1 2 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3	0 te Drive, 0 2 6 0 14 3 7 0 0 0 0 1 3 9 20 1 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 Baton H  0 7 2 0 25 6 2 13 0 0 Hale Co  22 3 0 0 3 FL 347 20 51 5 4 31 0 3 0 6 1	3 Rouge, I  0 11 10 3 70 2 2 4 5 0 enter, T: 7 6 0 3 22 0 3 0 3 0 10 0 5 0 0 0	6 2 A 70808-  0 6 7 1 34 4 3 7 1 0 X 79041  5 4 1 3 24 3 1 1 2 1  7 15 1 1 27 1 1 27 1 3 2 2 1 3 2 2	201 202 22 Randy V 85239 203 204 205 206 207 208 209 23 Mike Re Albany, GA 210 211 212 213 214 215 216 217 24 Jefferso Greenville, 218 219 220 221 222 223 224 225 25 Forest R 77843	SC-5 SC-6 Wood, Stoneville Pedigre  RW-1 RW-2 ROWDEN RW-3 RW-4 RW-5 RW-6 District Stoneville Pedigre  MR-1 MR-2 MR-3 MR-1 MR-2 MR-3 MR-4 ROWDEN MR-5 MR-6 In Gwyn, AgrEvo Cotton MS 38701  ACSI EXP0052 ACSI EXP0222 M-315 ACSI EXP0223 ACSI EXP0781 ACSI EXP0781 ACSI EXPIF1000 ROWDEN  ROWDEN  Robinson, USDA, Texas	4 4 4 2ed Seed  2 0 29 10 1 14 3 greed Se  0 2 9 4 5 41 8 8 Seed In  7 12 0 0 10 0 2 19 A & M	6 13 1 Co., P.0 6 2 36 4 0 3 3 2ed Co., 0 2 6 10 15 39 3 57 tter., 430 2 2 3 0 6 4 0 15 10 10 10 10 10 10 10 10 10 10 10 10 10	0 0 0 0. Box 5 3 0 15 5 3 15 2 2409 Co 6 6 12 19 35 0 15 15 11-A Hig	0 5 569, Ma 2 3 45 7 6 2 5 5 5 5 5 6 2 2 4 6 0 6 2 11 2 thway 8	2 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
40 5 Jack E. J. 8831 41 42 43 44 45 46 47 48 49 50 6 Gary Rea 51 52 53 54 55 56 67 7 W. P. Sa 61 62 63 64 65 666 67 68 69 70	M-315 fones, JaJo Genetics, 2  JJ-1 JJ-2 JJ-3 JJ-4 ROWDEN JJ-5 JJ-6 JJ-7 JJ-8 M-315 a, Paymaster Cottonser  1 2 3 4 ROWDEN 5 6 7 8 M-315 ppenfield, 115 Mango WPS-1 WPS-2 WPS-3 WPS-4 ROWDEN WPS-5 WPS-6 WPS-7 WPS-8	0 446 Maxin 1 3 9 0 26 4 0 13 0 0 ed, RR 2, 0 1 2 1 3 4 8 2 3 5 3 7 0 0 0 3 4 0 1 2 1 2 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3	0 te Drive, 0 2 6 0 14 3 7 0 0 0 0 1 3 9 20 1 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 Baton H  0 7 2 0 25 6 2 13 0 0 Hale Co  22 3 0 0 3 FL 347 20 51 5 4 31 0 3 0 6 1	3 Rouge, I  0 11 10 3 70 2 2 4 5 0 enter, T: 7 6 0 3 22 0 3 0 3 0 10 0 5 0 0 0	6 2 A 70808-  0 6 7 1 34 4 3 7 1 0 X 79041  5 4 1 3 24 3 1 1 2 1  7 15 1 1 27 1 1 27 1 3 2 2 1 3 2 2	201 202 22 Randy V 85239 203 204 205 206 207 208 209 23 Mike Re Albany, GA 210 211 212 213 214 215 216 217 24 Jefferso Greenville, 218 219 220 221 222 223 224 225 25 Forest R 77843	SC-5 SC-6 Wood, Stoneville Pedigre  RW-1 RW-2 ROWDEN RW-3 RW-4 RW-5 RW-6 Distriction Stoneville Pedigre  M-315 MR-1 MR-2 MR-3 MR-4 ROWDEN MR-5 MR-6 In Gwyn, AgrEvo Cotton MS 38701  ACSI EXP0222 ACSI EXP0222 ACSI EXP0221 ACSI EXP0221 ACSI EXP0781 ACSI EXP0781 ACSI EXPIF1000 ROWDEN	4 4 4 2ed Seed  2 0 29 10 1 14 3 2reed Se  0 2 9 4 5 41 8 8 Seed In  7 12 0 0 10 0 2 19 A & M	6 13 1 Co., P.0 6 2 36 4 0 3 3 eed Co., 0 2 6 10 15 39 3 57 tter., 430 2 2 3 0 6 4 0 10 10 10 10 10 10 10 10 10 10 10 10 1	0 0 0 0. Box 5 3 0 15 5 3 15 2 2409 Co 2 0 6 12 19 35 0 15 15 15 10 11 11 11 12 13 15 15 15 15 15 15 15 15 15 15 15 15 15	0 5 569, Ma 2 3 45 7 6 2 5 5 5 5 6 2 2 4 6 0 6 2 11 2 13 3 3 0 3 0 0 3 0 0 0 0 0 0 0 0 0 0 0	2 5 5 vricopa, 3 1 31 6 3 8 3 2 Eane, 10 30 4 23 2 East, 10 7 1 4 7 4 1 20 ion, TX

	AFR-4	4	15	6	1	7
230	M-315	0	3	0	3	1
26 Luther Bird,	729 Shady Lane, Bry	an, TX	77802-	-4322		
231	GP-2-37-96	0	0	0	6	2
232	GP-4-37-96	19	5	0	17	10
233	GP-6-19-96	5	7	0	0	3
234	GP 9529-1	15	0	0	0	4
235	ROWDEN	49	52	22	20	36
	phries, Delta and Pin	e Land	Co., 130	)5 North	VIP BI	vd., Casa
Grande, AZ 852	222					
236	DPAZ-1	6	9	7	2	6
237	DPAZ-2	15	3	3	6	7
238	DPAZ-3	6	4	18	6	8
239	DPAZ-4	28	10	4	2	11
240	M-315	0	0	0	2	0
241	DPAZ-5	6	0	0	0	2
28 Kathryn M. O	Glass, Dept. of Agror	nomy ar	nd Soils,	Auburr	Univer	sity, AL
36849-5412		•				
242	Suregrow 125					
	BR	22	4	6	3	9
243	Suregrow 747	24	8		5	
			0	3	5	10
244	Paymaster PM		0	3	3	10
244	Paymaster PM 1560 BG/RR	0	2	2	0	10 1
<ul><li>244</li><li>245</li></ul>	•	0 <b>29</b>				
	1560 BG/RR		2	2	0	1
245	1560 BG/RR ROWDEN	29	2 <b>22</b>	2 8	0 <b>10</b>	1 <b>17</b>
245 246	1560 BG/RR ROWDEN Stoneville 474	29	2 <b>22</b>	2 8	0 <b>10</b>	1 <b>17</b>
245 246	1560 BG/RR ROWDEN Stoneville 474 Deltapine	<b>29</b> 8	2 <b>22</b> 0	2 <b>8</b> 17	0 <b>10</b> 4	1 <b>17</b> 7
245 246 247	1560 BG/RR ROWDEN Stoneville 474 Deltapine NuCotn 33B	<b>29</b> 8	2 <b>22</b> 0	2 <b>8</b> 17	0 <b>10</b> 4	1 <b>17</b> 7
245 246 247	1560 BG/RR ROWDEN Stoneville 474 Deltapine NuCotn 33B Deltapine DP	<b>29</b> 8	2 22 0	2 <b>8</b> 17	0 10 4	1 <b>17</b> 7
245 246 247 248	1560 BG/RR ROWDEN Stoneville 474 Deltapine NuCotn 33B Deltapine DP 458 B/RR	<b>29</b> 8	2 22 0	2 <b>8</b> 17	0 10 4	1 <b>17</b> 7