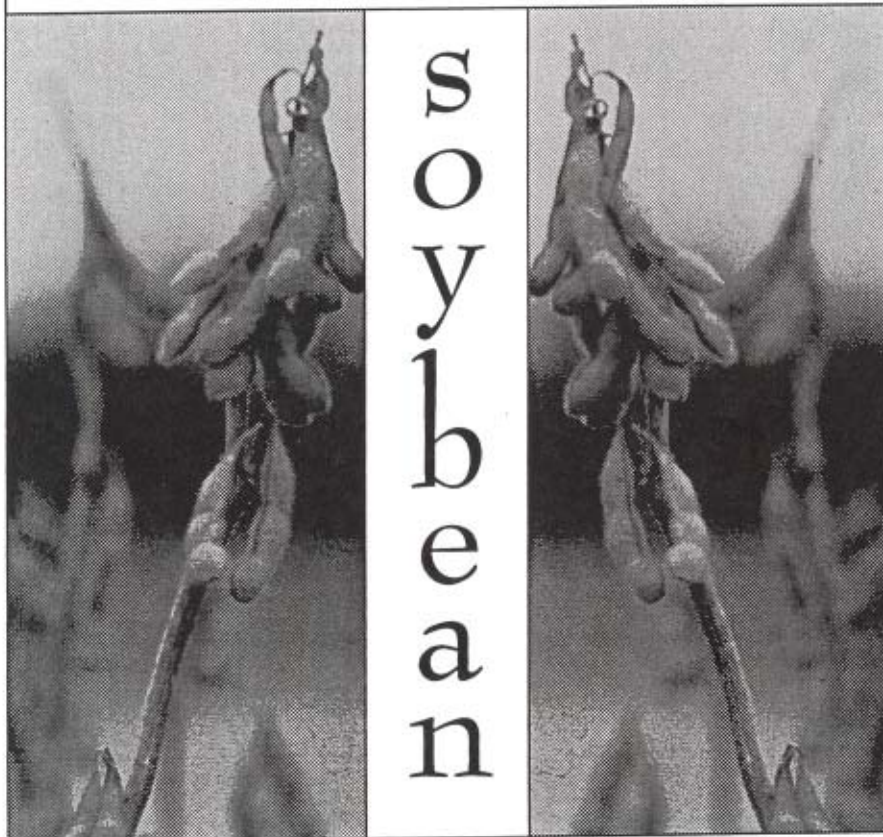




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performance

of



varieties
in alabama,
1998

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

Performance of Soybean Varieties in Alabama, 1998

K. M. Glass and C. D. Monks¹

INTRODUCTION

Soybean variety tests are conducted annually by the Alabama Agricultural Experiment Station. The eight locations used represent the major soil and climatic regions of Alabama. These locations are divided into logical soybean-growing regions. The regions and locations are as follows: Northern (Belle Mina and Crossville), Central (Prattville and Shorter), Southern (Brewton, and Monroeville), Black Belt (Marion Junction—two soils), and Gulf Coast (Fairhope).

EXPERIMENTAL PROCEDURES

The standard tests were designed as a randomized complete block with four replications. Plot size was four 30- to 36-inch rows 20 feet long. Sixteen feet of the middle two rows were harvested for yield. Seeding rate was 10 viable seeds per foot of row. The early planted test at Brewton was arranged in an incomplete lattice square design with four replications.

Data were collected on seed yield, moisture, lodging, shattering, plant height, and maturity date. Plot yields were adjusted to 13 percent moisture and converted to bushels (60 pounds) per acre. Lodging was scored on a scale of 1 to 5 as follows: 1—almost all plants erect; 2—either all plants leaning slightly (less than 45°) or a few plants down; 3—either all plants leaning moderately (approximately 45°) or 25 to 50 percent of the plants down; 4—either all plants leaning more than 45° or 50 to 80 percent of the plants down; 5—more than 80 percent of the plants down.

Shattering was rated on a scale of 1 to 5 based on performance of the border rows 14 days after maturity. A rating of 1 indicated no shattering, a rating of 3 indicated a 4 to 8 percent shattering, and a rating of 5 meant 20 percent or more shattering. Plant height was determined by measuring from the ground to the top of the plant at maturity. Maturity date was the day 95 percent of the pods reached mature pod color. Harvest was approximately 7 to 10 days later.

SEASONAL CONDITIONS

Rainfall for 1998 is shown in Table 3. Most standard tests were planted late due to the lack of moisture. The normal planting dates for full season plantings in the regular tests are the first week in May, May 15 to 25, and May 25 to June 5 for northern, central, and southern Alabama locations, respectively. At Fairhope, Hurricane Georges blew down plants and removed leaves on most varieties. Since all varieties were severely affected, no lodging ratings were taken.

COMPARING VARIETIES

To help determine real yield differences, a statistical analysis of variance is performed on the data from each location. The L.S.D. (least significant difference) and C.V. (coefficient of variation) are given for each location's 1998 test, and for the location's or region's two- and three-year averages. The difference in yield of two varieties must exceed the L.S.D. value for one variety to be considered superior to others in yield in that particular test. The C.V. is a measure of the variability in an experiment. An increase in its value indicates an increase in the unexplained variability.

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Since the performance of varieties varies with location and year, long-term averages from several locations are more reliable than one-year performance. Three-year regional averages are considered a reliable evaluation of the relative performance of varieties.

ACKNOWLEDGMENTS

Appreciation is expressed to the following superintendents and their staffs. It is their quality work which makes this report a reliable source of information for farmers in their areas.

Tennessee Valley Research and Extension Center, Belle Mina	B.E. Norris, Supt. H.E. Burgess, Assoc. Supt.
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Prattville Experiment Field, Prattville	D.P. Moore, Supt.
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Black Belt Research and Extension Center, Marion Junction	J.L. Holliman, Supt.
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Brewton Experiment Field, Brewton	J.R. Akridge, Supt.
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TABLE 1. CULTURAL PRACTICES FOR SOYBEAN VARIETY TESTS IN 1998

Location	Test Type	Planting Date	Row Width	Herbicide	Fertilizer
Belle Mina	Standard	May 28	30	Treflan	none recommended
	Preliminary	May 28	30	Treflan	none recommended
Crossville	Standard	May 12	30	Scepter, Dual	100 lb. 0-45-0/acre + 50 lb. 0-0-60/acre
Prattville	Standard	June 8	30	Prowl	none recommended
	Preliminary	June 8	30	Prowl Gramoxone	none recommended
Shorter	Standard	May 26	30	Dual	none recommended
Marion Junction	Standard (Sumter)	June 9	36	Prowl	200 lb. 0-26-26/acre
	Standard (Vaiden)	June 12	36	Prowl Scepter	none recommended
Brewton	Early	April 27	36	Dual	400 lb. 5-10-15/acre
	Standard	June 10	36	Dual	none recommended
Monroeville	Preliminary	June 5	36	Treflan	300 lb. 0-20-20/acre
Fairhope	Standard	June 2	30	Dual	332 lb. 0-24-24/acre+ 10 lb. 0-80-80/acre

TABLE 2. SOIL TYPES FOR SOYBEAN TESTS, 1998

Test Location	Soil Type
Belle Mina	Emory silt loam
Crossville	Wynntville fine sandy loam
Prattville	Lucedale fine sandy loam
Shorter	Norfolk sandy loam
Marion Junction	Vaiden clay
Marion Junction	Sumter clay
Monroeville	Lucedale loam
Brewton	Benndale fine sandy loam
Fairhope	Malbis fine sandy loam

TABLE 3. RAINFALL AT TEST LOCATIONS DURING GROWING SEASON, 1998

Month	Days	Belle Mina	Crossville	Shorter	Prattville	Marion			
						Junction	Brewton	Monroeville	Fairhope
May	1-5	0.07	0.54	1.40	0.57	0.20	0.30	0.19	0.03
	6-10	1.43	0.71	0.72	1.73	0.00	0.10	0.00	0.08
	11-15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	16-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	21-25	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	26-31	0.89	0.37	2.28	0.18	0.98	0.30	2.05	0.70
		2.44	1.62	4.40	2.48	1.18	0.70	2.24	0.81
June	1-5	0.73	2.59	0.00	0.00	0.00	0.00	0.98	0.51
	6-10	0.33	0.37	1.28	1.92	1.47	1.05	0.02	1.23
	11-15	0.22	0.12	0.00	0.00	0.10	0.00	0.00	0.00
	16-20	0.31	0.43	0.57	0.73	1.34	0.47	0.37	0.46
	21-25	0.00	0.04	0.70	0.81	0.00	0.18	0.03	0.31
	26-30	0.21	0.03	0.00	0.00	0.01	0.00	0.00	0.00
		1.80	3.58	2.55	2.73	2.92	1.70	1.40	2.23
July	1-5	0.57	0.75	0.14	0.33	0.42	0.80	0.98	0.00
	6-10	0.00	0.09	1.18	0.23	1.40	0.30	1.11	1.08
	11-15	1.10	0.64	0.29	0.90	1.06	3.60	2.74	0.68
	16-20	0.51	0.05	0.17	0.63	0.00	0.00	0.00	2.51
	21-25	2.19	1.79	0.78	2.04	3.11	1.80	0.55	0.94
	26-31	0.92	0.21	0.04	0.00	0.30	2.00	1.80	0.08
		5.29	3.53	2.60	4.13	6.29	8.50	7.18	6.17
August	1-5	0.00	0.02	0.11	0.92	0.00	0.10	0.00	0.00
	6-10	0.45	0.08	0.75	1.57	0.70	0.50	0.77	0.14
	11-15	0.48	1.90	1.08	0.10	1.17	3.10	2.45	2.50
	16-20	0.88	0.52	0.28	0.84	0.25	1.50	4.06	0.73
	21-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.23
	26-31	0.00	0.00	0.00	0.00	0.05	0.00	2.50	0.30
		1.81	2.52	2.22	3.43	2.17	5.20	9.78	5.90
September	1-5	0.00	0.00	0.22	0.71	0.33	3.76	0.00	2.53
	6-10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
	11-15	0.00	0.00	0.00	0.02	0.25	0.22	0.64	2.36
	16-20	0.02	0.19	0.00	0.02	0.23	0.82	0.47	2.22
	21-25	0.84	0.20	3.38	0.55	1.72	2.64	0.07	1.18
	26-30	0.00	0.00	6.26	7.25	6.55	18.44	16.52	15.82
		0.86	0.49	9.86	8.55	9.08	25.88	17.70	24.11
October	1-5	0.15	0.09	0.32	0.00	0.00	0.00	0.48	0.23
	6-10	1.11	0.21	0.98	1.73	1.57	0.90	1.07	1.49
	11-15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	16-20	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	21-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	26-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.37	0.30	1.30	1.73	1.57	0.90	1.55	1.72

TABLE 4. PERFORMANCE OF SOYBEAN VARIETIES IN NORTHERN ALABAMA, 1998

Brand-Variety	—Yield Per Acre—		—Regional Average—			Maturity Date
	Belle Mina <i>bu.</i>	Crossville <i>bu.</i>	Lodging Score	Shattering Score	Plant Height (<i>in.</i>)	
Maturity Group IV						
RVS 490	21.4	24.0	1.0	1.3	33	9-28
Pioneer 9492	17.7	19.9	1.0	2.8	26	9-24
Deltapine DP 4969 RR	17.4	21.5	1.5	1.9	32	9-24
Deltapine DP 4750 RR	15.8	24.5	1.1	2.8	32	9-26
Suregrow SG 498 RR	15.7	25.4	1.0	2.4	26	9-25
Suregrow SG 468 RR	15.5	20.1	1.3	2.4	33	9-24
TN 4-86	13.4	20.4	1.3	2.6	36	9-24
TN 4-94	11.2	26.0	1.0	3.0	31	9-26
Maturity Group V						
Pioneer 95B33	26.5	27.0	1.4	1.4	28	9-30
Asgrow A 5959	26.0	25.5	1.5	1.0	28	10-5
Asgrow A 5944	24.9	17.9	1.0	1.4	28	10-6
Hutcheson	24.6	22.7	1.0	1.3	26	10-6
Dyna-Grow 3576	23.1	20.8	1.5	1.0	25	10-4
Clifford	22.2	22.0	1.1	2.0	23	9-30
Pioneer 9594	21.5	22.3	1.5	1.0	30	10-5
AgriPro AP588RR	21.5	24.2	1.0	1.0	31	10-5
Delta King 5664 RR	21.3	18.9	1.3	1.3	27	10-5
Pioneer 9584	20.9	25.9	1.3	1.0	31	10-4
Pioneer 95B41	20.3	21.7	1.3	1.6	29	9-28
Riverside Robin-5	20.3	18.9	1.1	1.0	24	10-6
Hartz H5350RR	19.7	23.2	1.4	1.1	26	10-3
Deltapine DP 5644 RR	19.7	24.0	1.1	1.0	30	10-3
Riverside 549	19.6	19.4	1.6	1.0	27	10-5
Delta King 5263 RR	19.3	27.6	1.0	1.5	26	9-28
AgriPro HY574	18.9	21.8	1.6	1.0	29	10-5
Pioneer 95B71	18.8	22.8	1.0	1.0	27	10-6
Hartz H5050	18.7	21.0	1.3	1.1	34	10-4
Deltapine DP 5690 RR	18.5	23.7	1.0	1.0	31	10-6
Accomac	18.1	25.0	1.5	1.4	30	9-28
Deltapine DP 5806 RR	17.7	24.9	1.5	1.0	30	10-4
Suregrow SG 567 RR	17.5	17.3	1.0	1.0	30	10-4
Delta King 5961 RR	17.5	20.7	1.1	1.0	30	10-6
Deltapine DP 3588	17.1	21.1	1.3	1.0	36	10-5
Deltapine DP 5354	17.0	28.2	2.1	1.6	30	9-30
Suregrow SG 597 RR	16.5	18.8	1.1	1.1	36	10-6
Riverside 520	16.0	19.3	1.1	1.5	33	9-26

TABLE 4, CONTINUED. PERFORMANCE OF SOYBEAN VARIETIES IN NORTHERN ALABAMA, 1998

Brand-Variety	Yield Per Acre		Lodging Score	Regional Average		
	Belle Mina <i>bu.</i>	Crossville <i>bu.</i>		Shattering Score	Plant Height (<i>in.</i>)	Maturity Date
Maturity Group VI						
Hartz H6191	23.5	17.0	1.3	1.0	25	10-13
Boggs	19.0	19.0	1.0	1.0	30	10-11
Musen	18.7	15.7	1.1	1.0	33	10-16
Dillon	18.6	16.4	1.1	1.1	29	10-9
Pioneer 96B01	18.3	23.3	1.4	1.0	31	10-8
Centennial	17.9	10.3	1.0	1.5	32	10-16
Pioneer 9692	17.7	16.6	1.0	1.1	32	10-14
Riverside 678	17.7	13.5	1.7	1.4	33	10-13
Dyna-Gro 3682	17.6	18.3	1.4	1.3	34	10-13
Hartz H6255RR	17.3	19.1	1.0	1.0	29	10-10
Doles	16.2	16.0	1.3	1.0	27	10-11
Young	15.7	17.5	1.3	1.1	30	10-7
AU 92-763	14.8	21.4	1.0	1.0	25	10-11
Maturity Group VII						
Benning	19.7	16.5	1.1	1.0	36	10-20
Braxton	19.3	9.7	1.0	1.0	35	10-20
Haskell	19.1	7.4	1.5	1.0	32	10-18
Stonewall	17.7	18.0	1.1	1.3	34	10-13
Carver	13.9	19.2	1.0	1.0	30	10-10
Test Means	18.8	20.4	1.2	1.3	30	
L.S.D. (.05)	3.6	5.3				
C.V. (%)	13.7	18.6				

TABLE 5. PERFORMANCE OF SOYBEAN VARIETIES IN NORTHERN ALABAMA, THREE-YEAR SUMMARY, 1996-98

Brand-Variety	Yield Per Acre			Lodging Score	3-Year Average		
	1998 <i>bu.</i>	2-Yr. Avg. <i>bu.</i>	3-Yr. Avg. <i>bu.</i>		Shattering Score	Plant Height (<i>in.</i>)	Maturity Date
Maturity Group IV							
TN 4-94	18.6	27.0	32.5	1.2	2.2	34	9-24
TN 4-86	16.9	24.0	29.1	1.3	1.9	36	9-21
RVS 490	22.7	-	-	-	-	-	-
Suregrow SG 498 RR	20.5	-	-	-	-	-	-
Deltapine DP 4750 RR	20.1	-	-	-	-	-	-
Deltapine DP 4969 RR	19.4	-	-	-	-	-	-
Pioneer 9492	18.8	-	-	-	-	-	-
Suregrow SG 468 RR	17.8	-	-	-	-	-	-
Maturity Group V							
Pioneer 9584	23.4	28.4	36.5	1.4	1.0	32	10-2
Pioneer 9594	21.9	28.6	34.7	1.6	1.0	31	10-6
Hutcheson	23.6	28.8	34.4	1.2	1.1	27	10-2
Hartz H5050	19.8	27.2	34.1	1.5	1.1	36	10-5
Riverside Robin-5	19.6	25.5	34.0	1.3	1.0	26	10-5
AgriPro HY574	20.4	25.5	33.0	1.9	1.0	32	10-4

**TABLE 5, CONTINUED. PERFORMANCE OF SOYBEAN VARIETIES IN NORTHERN ALABAMA,
THREE-YEAR SUMMARY, 1996-98**

Brand-Variety	Yield Per Acre			3-Year Average			
	1998 <i>bu.</i>	2-Yr. Avg. <i>bu.</i>	3-Yr. Avg. <i>bu.</i>	Lodging Score	Shattering Score	Plant Height (<i>in.</i>)	Maturity Date
Maturity Group V, continued							
Clifford	22.1	27.1	32.6	1.7	1.5	26	9-28
Dyna-Grow 3576	21.9	26.6	32.6	1.8	1.0	27	10-3
Deltapine DP 3588	19.1	23.9	31.0	1.5	1.0	36	10-5
Riverside 549	19.5	24.6	30.9	1.4	1.0	28	10-2
Asgrow A 5959	25.8	31.5	-	-	-	-	-
Asgrow A 5944	21.4	28.5	-	-	-	-	-
Pioneer 95B33	26.7	-	-	-	-	-	-
Delta King 5263 RR	23.5	-	-	-	-	-	-
AgriPro AP588RR	22.8	-	-	-	-	-	-
Deltapine DP 5354	22.6	-	-	-	-	-	-
Deltapine DP 5644 RR	21.8	-	-	-	-	-	-
Accomac	21.6	-	-	-	-	-	-
Hartz H5350RR	21.4	-	-	-	-	-	-
Deltapine DP 5806 RR	21.3	-	-	-	-	-	-
Deltapine DP 5690 RR	21.1	-	-	-	-	-	-
Pioneer 95B41	21.0	-	-	-	-	-	-
Pioneer 95B71	20.8	-	-	-	-	-	-
Delta King 5664 RR	20.1	-	-	-	-	-	-
Delta King 5961 RR	19.1	-	-	-	-	-	-
Riverside 520	17.7	-	-	-	-	-	-
Suregrow SG 597 RR	17.6	-	-	-	-	-	-
Suregrow SG 567 RR	17.4	-	-	-	-	-	-
Maturity Group VI							
Pioneer 9692	17.1	26.3	36.0	1.7	1.1	34	10-15
Dyna-Gro 3682	17.9	25.5	33.7	2.2	1.1	36	10-15
Dillon	17.5	26.3	33.5	1.2	1.1	32	10-9
Doles	16.1	23.5	31.9	1.5	1.1	31	10-13
Young	16.6	23.2	30.3	2.0	1.1	34	10-8
Musen	17.2	25.4	-	-	-	-	-
Riverside 678	15.6	22.7	-	-	-	-	-
Centennial	14.1	21.8	-	-	-	-	-
Pioneer 96B01	20.8	-	-	-	-	-	-
Hartz H6191	20.2	-	-	-	-	-	-
Boggs	19.0	-	-	-	-	-	-
Hartz H6255RR	18.2	-	-	-	-	-	-
AU 92-763	18.1	-	-	-	-	-	-
Maturity Group VII							
Carver	16.6	25.7	33.5	1.1	1.0	34	10-11
Stonewall	17.9	25.0	32.1	1.9	1.1	35	10-14
Braxton	14.5	24.0	31.1	1.3	1.0	38	10-19
Haskell	13.3	21.9	29.3	2.5	1.0	35	10-17
Benning	18.1	27.3	-	-	-	-	-
Test Means	19.6	25.8	32.7	1.6	1.1	32	
L.S.D. (.05)	4.5						
C.V. (%)	16.6						

TABLE 6. PERFORMANCE OF SOYBEAN VARIETIES AT PRATTVILLE, ALABAMA, 1998

Brand-Variety	Yield Per Acre <i>bu.</i>	Average			Maturity Date
		Lodging Score	Shattering Score	Plant Height (<i>in.</i>)	
Maturity Group V					
Hutcheson	32.4	1.0	1.0	20	10-11
AgriPro AP588RR	31.7	1.0	1.0	23	10-5
Suregrow SG 567 RR	31.3	1.0	1.0	27	10-4
Clifford	29.5	1.0	1.8	21	10-2
Riverside Robin-5	28.9	1.0	1.0	18	10-3
Deltapine DP 5690 RR	27.0	1.0	1.0	23	10-6
Riverside 520	24.2	1.0	1.0	34	10-7
AgriPro HY574	23.5	1.0	1.0	23	10-8
Riverside 549	19.2	1.0	1.0	18	10-5
Dyna-Grow 3576	17.3	1.0	1.0	19	10-4
Suregrow SG 597 RR	14.9	1.0	1.0	26	10-9
Accomac	13.6	1.0	1.3	21	10-5
Maturity Group VI					
Dyna-Gro 3682	31.5	1.0	1.0	27	10-21
Musen	31.0	1.0	1.0	22	10-19
Pioneer 9692	30.8	1.0	1.0	25	10-17
Suregrow SG 678 RR	26.6	1.0	1.0	23	10-17
Dillon	25.0	1.0	1.0	23	10-8
Boggs	24.1	1.0	1.0	20	10-17
Hornbeck HBK 67	22.7	1.0	1.0	25	10-13
AU 92-763	22.4	1.0	1.0	16	10-15
Young	21.5	1.0	1.0	26	10-8
Riverside 678	21.3	1.0	1.0	24	10-16
Bryan	11.0	1.0	1.0	18	10-20
Maturity Group VII					
Pioneer 97B61	38.2	1.0	1.0	28	10-26
Carver	33.4	1.0	1.0	24	10-14
Stonewall	28.3	1.0	1.0	23	10-24
Benning	25.1	1.0	1.0	22	10-24
Suregrow SG 708 RR	20.0	1.0	1.0	23	10-18
Haskell	19.4	1.3	1.0	21	10-22
Test Means	25.0	1.0	1.0	23	
L.S.D. (.05)	9.5				
C.V. (%)	27.0				

**TABLE 7. PERFORMANCE OF SOYBEAN VARIETIES AT PRATTVILLE, ALABAMA,
THREE-YEAR SUMMARY, 1996-98**

Brand-Variety	Yield Per Acre			3-Year Average			Maturity Date
	1998 <i>bu.</i>	2-Yr. Avg. <i>bu.</i>	3-Yr. Avg. <i>bu.</i>	Lodging Score	Shattering Score	Plant Height (<i>in.</i>)	
Maturity Group V							
Clifford	29.5	35.9	39.0	1.0	1.6	21	9-26
Hutcheson	32.4	35.0	34.4	1.0	1.0	20	9-30
AgriPro HY574	23.5	27.8	30.3	1.0	1.0	24	10-1
Dyna-Grow 3576	17.3	25.6	-	-	-	-	-
AgriPro AP588RR	31.7	-	-	-	-	-	-
Suregrow SG 567 RR	31.3	-	-	-	-	-	-
Riverside Robin-5	28.9	-	-	-	-	-	-
Deltapine DP 5690 RR	27.0	-	-	-	-	-	-
Riverside 520	24.2	-	-	-	-	-	-
Riverside 549	19.2	-	-	-	-	-	-
Suregrow SG 597 RR	14.9	-	-	-	-	-	-
Accomac	13.6	-	-	-	-	-	-
Maturity Group VI							
Pioneer 9692	30.8	28.2	37.0	1.0	1.0	28	10-11
Young	21.5	26.1	33.9	1.0	1.1	27	10-4
Dillon	25.0	22.3	27.7	1.0	1.1	26	10-6
Bryan	11.0	14.1	23.8	1.0	1.0	26	10-14
Musen	31.0	25.2	-	-	-	-	-
Dyna-Gro 3682	31.5	-	-	-	-	-	-
Suregrow SG 678 RR	26.6	-	-	-	-	-	-
Boggs	24.1	-	-	-	-	-	-
Hornbeck HBK 67	22.7	-	-	-	-	-	-
AU 92-763	22.4	-	-	-	-	-	-
Riverside 678	21.3	-	-	-	-	-	-
Maturity Group VII							
Carver	33.4	26.6	35.0	1.0	1.0	26	10-8
Stonewall	28.3	23.1	30.6	1.0	1.0	27	10-16
Haskell	19.4	18.7	25.7	1.4	1.0	27	10-20
Pioneer 97B61	38.2	26.8	-	-	-	-	-
Benning	25.1	23.2	-	-	-	-	-
Suregrow SG 708 RR	20.0	-	-	-	-	-	-
Test Means	25.0	25.6	31.7	1.0	1.1	25	
L.S.D. (.05)	9.5						
C.V. (%)	27.0						

**TABLE 8. PERFORMANCE OF SOYBEAN VARIETIES ON SUMTER SOIL,
MARION JUNCTION, ALABAMA, 1998**

Brand-Variety	Yield Per Acre* <i>bu.</i>	Average			Iron Chlor. Rating**	Maturity Date
		Lodging Score	Shattering Score	Plant Height (<i>in.</i>)		
Maturity Group V						
Asgrow A 5944	7.1	1.0	-	15	5.00	10-17
Asgrow A 5959	7.1	1.0	-	14	7.50	10-22
AgriPro HY574	7.0	1.0	-	15	5.00	10-21
Riverside Robin-5	6.1	1.0	-	13	8.50	10-23
Accomac	6.1	1.0	-	15	7.50	10-26
Deltapine DP 3588	5.6	1.0	-	16	10.00	10-30
Dyna-Grow 3576	5.1	1.0	-	12	7.00	10-17
Suregrow SG 597 RR	4.4	1.0	-	19	7.00	10-30
Hartz H5050	4.4	1.0	-	13	9.50	10-30
Hutcheson	4.4	1.0	-	15	8.00	10-22
Riverside 520	3.9	1.0	-	16	9.50	10-27
Riverside 549	3.8	1.0	-	13	10.00	10-22
Suregrow SG 567 RR	2.9	1.0	-	15	9.50	10-24
Deltapine DP 5644 RR	-	-	-	-	10.00	-
Deltapine DP 5690 RR	-	-	-	-	9.50	-
Deltapine DP 5806 RR	-	-	-	-	10.00	-
Hartz H5350RR	-	-	-	-	10.00	-
Maturity Group VI						
Pioneer 9692	9.7	1.0	-	15	9.50	10-30
Deltapine DP 6880 RR	8.5	1.0	-	18	7.50	10-30
Boggs	8.4	1.0	-	15	5.00	10-27
Hy Performer HY 663	8.1	1.0	-	17	6.00	10-27
Riverside 678	7.8	1.0	-	15	8.00	10-29
Hartz H6191	7.7	1.0	-	15	7.50	10-30
Musen	7.6	1.0	-	16	8.50	10-30
Dyna-Gro 3682	7.1	1.0	-	15	9.50	10-30
Young	6.2	1.0	-	18	8.50	10-30
Hornbeck HBK 67	5.5	1.0	-	14	8.50	10-30
Suregrow SG 678 RR	5.1	1.0	-	14	10.00	10-26
Hartz H6255RR	4.4	1.0	-	16	10.00	10-30
AU 92-763	4.2	1.0	-	15	10.00	10-30
Dillon	3.7	1.0	-	14	10.00	10-30
Bryan	-	-	-	-	10.00	-
Deltapine DP 6200 RR	-	-	-	-	-	-
Maturity Group VII						
Braxton	13.8	1.0	-	20	5.00	10-30
Haskell	12.6	1.0	-	18	5.00	10-30
Suregrow SG 708 RR	10.7	1.0	-	22	5.00	10-28
Stonewall	9.6	1.0	-	15	9.50	10-30
Benning	9.2	1.0	-	18	9.50	10-30
AgriPro AP 727	8.5	1.0	-	16	9.50	10-30
Carver	6.6	1.0	-	16	5.50	10-27
Hagood	6.5	1.0	-	19	8.50	10-30
Deltapine DP 7375 RR	4.2	1.0	-	13	8.50	10-30
Test Means	6.8	1.0	-	16	8.24	
L.S.D. (.05)	3.9					
C.V. (%)	40.4					

* This table is not reliable for yield due to severe iron chlorosis.

**Iron chlorosis ratings were 1 to 10: 1=no chlorosis, 10=plants losing leaves due to necrotic spots in leaves.

TABLE 9. PERFORMANCE OF SOYBEAN VARIETIES ON SUMTER SOIL, MARION JUNCTION, ALABAMA, THREE-YEAR SUMMARY, 1996-98

Brand-Variety	Yield Per Acre*			3-Year Average			
	1998 <i>bu.</i>	2-Yr. Avg. <i>bu.</i>	3-Yr. Avg. <i>bu.</i>	Lodging Score	Shattering Score	Plant Height (<i>in.</i>)	Maturity Date
Maturity Group V							
AgriPro HY574	7.0	18.9	23.7	1.0	1.3	19	10-8
Hartz H5050	4.4	18.7	21.9	1.0	1.5	20	10-9
Deltapine DP 3588	5.6	17.6	18.3	1.0	1.3	22	10-13
Hutcheson	4.4	17.7	-	-	-	-	-
Asgrow A 5944	7.1	-	-	-	-	-	-
Asgrow A 5959	7.1	-	-	-	-	-	-
Riverside Robin-5	6.1	-	-	-	-	-	-
Accomac	6.1	-	-	-	-	-	-
Dyna-Grow 3576	5.1	-	-	-	-	-	-
Suregrow SG 597 RR	4.4	-	-	-	-	-	-
Riverside 520	3.9	-	-	-	-	-	-
Riverside 549	3.8	-	-	-	-	-	-
Suregrow SG 567 RR	2.9	-	-	-	-	-	-
Maturity Group VI							
Hy Performer HY 663	8.1	18.7	24.6	1.5	1.0	25	10-11
Hartz H6191	7.7	15.9	22.7	1.0	1.0	18	10-16
Pioneer 9692	9.7	18.3	21.6	1.0	1.0	20	10-19
Young	6.2	14.8	20.0	1.1	2.8	24	10-12
Dillon	3.7	14.2	19.5	1.0	1.5	22	10-13
Musen	7.6	13.5	-	-	-	-	-
Deltapine DP 6880 RR	8.5	-	-	-	-	-	-
Boggs	8.4	-	-	-	-	-	-
Riverside 678	7.8	-	-	-	-	-	-
Dyna-Gro 3682	7.1	-	-	-	-	-	-
Hornbeck HBK 67	5.5	-	-	-	-	-	-
Suregrow SG 678 RR	5.1	-	-	-	-	-	-
Hartz H6255RR	4.4	-	-	-	-	-	-
AU 92-763	4.2	-	-	-	-	-	-
Maturity Group VII							
Stonewall	9.6	20.5	27.7	1.0	1.0	23	10-18
Haskell	12.6	17.9	24.3	1.8	1.0	27	10-24
Braxton	13.8	17.7	23.5	1.0	1.0	28	10-24
Carver	6.6	15.8	22.2	1.1	1.5	23	10-14
Hagood	6.5	14.3	19.3	1.4	1.0	28	10-25
Benning	9.2	18.2	-	-	-	-	-
Suregrow SG 708 RR	10.7	-	-	-	-	-	-
AgriPro AP 727	8.5	-	-	-	-	-	-
Deltapine DP 7375 RR	4.2	-	-	-	-	-	-
Test Means	6.8	17.0	22.3	1.1	1.3	23	
L.S.D. (.05)	3.9						
C.V. (%)	40.4						

*Please note that this table is not reliable for yield due to severe iron chlorosis in 1998.

**TABLE 10. PERFORMANCE OF SOYBEAN VARIETIES ON VAIDEN SOIL,
MARION JUNCTION, ALABAMA, 1998**

Brand-Variety	Yield Per Acre <i>bu.</i>	Average			Maturity Date
		Lodging Score	Shattering Score	Plant Height (<i>in.</i>)	
Maturity Group V					
Deltapine DP 3588	36.5	1.5	-	31	10-8
AgriPro HY574	34.1	1.0	-	25	10-9
Riverside Robin-5	32.9	1.0	-	19	10-8
Hartz H5050	32.7	1.3	-	26	10-6
Asgrow A 5944	32.3	1.0	-	22	10-11
Clifford	32.2	1.0	-	20	10-17
Riverside 549	32.0	1.0	-	20	10-8
Hutcheson	31.4	1.0	-	18	10-7
Dyna-Grow 3576	30.3	1.0	-	18	10-5
Accomac	28.9	1.0	-	21	10-8
Deltapine DP 5806 RR	28.2	1.0	-	23	10-11
Deltapine DP 5690 RR	27.2	1.0	-	23	10-9
Deltapine DP 5644 RR	27.0	1.0	-	21	10-9
Asgrow A 5959	26.8	1.0	-	19	10-6
Suregrow SG 567 RR	25.5	1.0	-	22	10-7
Suregrow SG 597 RR	23.2	1.0	-	29	10-11
Riverside 520	22.6	1.0	-	30	10-5
Hartz H5350RR	19.6	1.0	-	16	10-7
Maturity Group VI					
Hartz H6191	42.8	1.0	-	22	10-21
Pioneer 9692	41.3	1.3	-	28	10-20
Hy Performer HY 663	41.2	1.0	-	28	10-18
Riverside 678	39.5	1.0	-	30	10-17
Dillon	39.1	1.0	-	26	10-10
Deltapine DP 6880 RR	37.3	1.0	-	31	10-20
Boggs	36.6	1.3	-	26	10-18
Suregrow SG 678 RR	35.8	1.0	-	24	10-18
Dyna-Gro 3682	35.7	1.3	-	28	10-19
Musen	35.1	1.0	-	27	10-18
AU 92-763	34.7	1.0	-	20	10-19
Young	33.5	1.0	-	27	10-10
Hornbeck HBK 67	32.4	1.0	-	24	10-14
Deltapine DP 6200 RR	32.1	1.0	-	25	10-11
Bryan	27.5	1.0	-	23	10-20
Hartz H6255RR	27.2	1.0	-	21	10-18
Maturity Group VII					
Benning	46.9	1.3	-	30	10-21
Stonewall	41.7	1.0	-	29	10-18
Haskell	41.0	1.8	-	27	10-21
Braxton	38.0	1.0	-	29	10-21
Suregrow SG 708 RR	36.8	1.0	-	33	10-16
Hagood	35.3	2.0	-	32	10-22
AgriPro AP 727	35.1	1.0	-	27	10-19
Carver	33.5	1.0	-	23	10-19
Deltapine DP 7375 RR	30.9	1.0	-	28	10-21
Test Means	33.4	1.1	-	25	
L.S.D. (.05)	7.5				
C.V. (%)	16.0				

**TABLE 11. PERFORMANCE OF SOYBEAN VARIETIES ON VAIDEN SOIL,
MARION JUNCTION, ALABAMA, THREE-YEAR SUMMARY, 1996-98**

Brand-Variety	Yield Per Acre			3-Year Average			
	1998 <i>bu.</i>	2-Yr. Avg. <i>bu.</i>	3-Yr. Avg. <i>bu.</i>	Lodging Score	Shattering Score	Plant Height (<i>in.</i>)	Maturity Date
Maturity Group V							
Hartz H5050	32.7	38.8	38.3	1.4	1.3	28	10-8
Deltapine DP 3588	36.5	36.6	37.6	1.3	1.0	26	10-8
AgriPro HY574	34.1	36.0	37.4	1.0	1.0	26	10-8
Clifford	32.2	35.0	32.3	1.0	2.8	20	10-5
Hutcheson	31.4	32.6	30.6	1.0	1.8	18	10-3
Riverside Robin-5	32.9	-	-	-	-	-	-
Asgrow A 5944	32.3	-	-	-	-	-	-
Riverside 549	32.0	-	-	-	-	-	-
Dyna-Grow 3576	30.3	-	-	-	-	-	-
Accomac	28.9	-	-	-	-	-	-
Deltapine DP 5806 RR	28.2	-	-	-	-	-	-
Deltapine DP 5690 RR	27.2	-	-	-	-	-	-
Deltapine DP 5644 RR	27.0	-	-	-	-	-	-
Asgrow A 5959	26.8	-	-	-	-	-	-
Suregrow SG 567 RR	25.5	-	-	-	-	-	-
Suregrow SG 597 RR	23.2	-	-	-	-	-	-
Riverside 520	22.6	-	-	-	-	-	-
Hartz H5350RR	19.6	-	-	-	-	-	-
Maturity Group VI							
Hy Performer HY 663	41.2	43.1	44.3	1.0	1.0	28	10-16
Pioneer 9692	41.3	43.6	42.7	1.1	1.0	25	10-19
Hartz H6191	42.8	41.2	42.2	1.0	1.0	22	10-21
Dillon	39.1	40.4	39.8	1.0	1.0	26	10-11
Young	33.5	38.4	38.4	1.0	1.8	26	10-10
Bryan	27.5	37.0	36.2	1.0	1.0	27	10-19
Musen	35.1	34.7	-	-	-	-	-
Riverside 678	39.5	-	-	-	-	-	-
Deltapine DP 6880 RR	37.3	-	-	-	-	-	-
Boggs	36.6	-	-	-	-	-	-
Suregrow SG 678 RR	35.8	-	-	-	-	-	-
Dyna-Gro 3682	35.7	-	-	-	-	-	-
AU 92-763	34.7	-	-	-	-	-	-
Hornbeck HBK 67	32.4	-	-	-	-	-	-
Deltapine DP 6200 RR	32.1	-	-	-	-	-	-
Hartz H6255RR	27.2	-	-	-	-	-	-
Maturity Group VII							
Haskell	41.0	45.3	45.3	1.6	1.0	27	10-22
Stonewall	41.7	42.4	43.7	1.1	1.0	28	10-19
Carver	33.5	39.9	39.6	1.0	1.0	25	10-19
Braxton	38.0	37.5	38.1	1.0	1.0	28	10-22
Hagood	35.3	35.9	37.4	1.5	1.0	29	10-23
Benning	46.9	41.0	-	-	-	-	-
Suregrow SG 708 RR	36.8	-	-	-	-	-	-
AgriPro AP 727	35.1	-	-	-	-	-	-
Deltapine DP 7375 RR	30.9	-	-	-	-	-	-
Test Means	33.4	38.9	39.0	1.1	1.2	26	
L.S.D. (.05)	7.5						
C.V. (%)	16.0						

TABLE 12. PERFORMANCE OF SOYBEAN VARIETIES AT BREWTON, ALABAMA, 1998

Brand-Variety	Yield Per Acre <i>bu.</i>	Average			
		Lodging Score	Shattering Score	Plant Height (<i>in.</i>)	Maturity Date
Maturity Group V					
Riverside 549	42.7	1.0	0.0	18	9-22
Hutcheson	41.1	1.0	1.3	16	9-23
AgriPro HY574	39.7	1.0	0.0	20	9-24
Deltapine DP 5690 RR	35.7	1.0	0.0	22	9-24
Riverside Robin-5	35.2	1.0	0.0	18	9-24
AgriPro AP588RR	31.1	1.0	0.0	22	9-24
Riverside 520	28.4	1.3	2.5	33	9-20
Accomac	26.6	1.0	0.0	20	9-21
Dyna-Grow 3576	25.8	1.0	0.0	14	9-24
Clifford	20.7	1.0	1.3	15	9-21
Maturity Group VI					
Suregrow SG 678 RR	48.3	1.0	0.0	21	10-5
Musen	46.3	1.0	0.0	19	10-7
Riverside 678	43.2	1.3	0.0	20	10-4
Deltapine DP 6880 RR	43.0	1.5	0.0	21	10-4
Dyna-Gro 3682	39.5	1.3	0.0	23	10-4
Young	39.5	2.0	0.0	24	10-1
Dillon	39.1	1.0	0.0	21	10-1
Suregrow SG 617 RR	38.0	2.0	0.0	24	10-3
AU 92-763	37.8	1.0	0.0	18	10-5
Deltapine DP 6200 RR	37.1	1.8	0.0	23	10-2
Pioneer 9692	36.2	1.0	0.0	22	10-2
Boggs	35.1	1.3	0.0	18	10-4
Bryan	24.0	1.0	0.0	19	10-4
Maturity Group VII					
Pioneer 97B61	44.9	2.3	0.0	26	10-10
Deltapine DP 7375 RR	44.2	1.0	0.0	23	10-10
Benning	43.8	1.0	0.0	22	10-10
Hagood	41.7	2.5	0.0	28	10-11
Suregrow SG 708 RR	41.3	2.3	0.0	27	10-1
Haskell	41.0	1.8	0.0	24	10-7
Stonewall	40.5	1.3	0.0	21	10-5
Carver	35.5	1.0	0.0	18	10-2
Maturity Group VIII					
Prichard	46.4	2.0	0.0	27	10-20
Cook	41.0	2.0	0.0	26	10-11
AU 91-13	40.4	2.5	0.0	29	10-17
F 91-2161	37.1	3.0	0.0	35	10-18
Motte	36.9	2.0	0.0	21	10-14
F94-2290	35.8	2.5	0.0	24	10-15
Maxcy	32.6	1.5	0.0	24	10-12
Test Means	37.8	1.5	0.1	22	
L.S.D. (.05)	7.8				
C.V. (%)	14.8				

**TABLE 13. PERFORMANCE OF SOYBEAN VARIETIES AT BREWTON, ALABAMA,
THREE-YEAR SUMMARY, 1996-98**

Brand-Variety	Yield Per Acre			3-Year Average			
	1998 <i>bu.</i>	2-Yr. Avg. <i>bu.</i>	3-Yr. Avg. <i>bu.</i>	Lodging Score	Shattering Score	Plant Height (<i>in.</i>)	Maturity Date
Maturity Group V							
Hutcheson	41.1	34.1	40.2	1.0	0.6	21	9-27
AgriPro HY574	39.7	31.8	39.9	1.0	0.0	26	9-28
Dyna-Grow 3576	25.8	25.7	34.4	1.0	0.0	19	9-27
Clifford	20.7	25.1	31.4	1.0	0.6	21	9-26
Riverside 549	42.7	34.1	-	-	-	-	-
Riverside Robin-5	35.2	29.8	-	-	-	-	-
Deltapine DP 5690 RR	35.7	-	-	-	-	-	-
AgriPro AP588RR	31.1	-	-	-	-	-	-
Riverside 520	28.4	-	-	-	-	-	-
Accomac	26.6	-	-	-	-	-	-
Maturity Group VI							
Dillon	39.1	30.8	40.3	1.0	0.0	28	10-4
Young	39.5	30.5	39.1	1.3	0.0	29	10-4
Dyna-Gro 3682	39.5	31.0	38.9	1.1	0.0	28	10-12
Pioneer 9692	36.2	28.2	38.6	1.0	0.0	26	10-7
Bryan	24.0	22.5	29.0	1.0	0.0	25	10-9
Musen	46.3	34.3	-	-	-	-	-
Suregrow SG 678 RR	48.3	-	-	-	-	-	-
Riverside 678	43.2	-	-	-	-	-	-
Deltapine DP 6880 RR	43.0	-	-	-	-	-	-
Suregrow SG 617 RR	38.0	-	-	-	-	-	-
AU 92-763	37.8	-	-	-	-	-	-
Deltapine DP 6200 RR	37.1	-	-	-	-	-	-
Boggs	35.1	-	-	-	-	-	-
Maturity Group VII							
Haskell	41.0	30.3	40.0	1.3	0.0	29	10-14
Stonewall	40.5	30.2	39.2	1.1	0.0	26	10-11
Hagood	41.7	32.7	38.9	1.5	0.0	30	10-18
Carver	35.5	27.2	35.7	1.0	0.0	24	10-8
Pioneer 97B61	44.9	34.2	-	-	-	-	-
Benning	43.8	34.1	-	-	-	-	-
Deltapine DP 7375 RR	44.2	-	-	-	-	-	-
Suregrow SG 708 RR	41.3	-	-	-	-	-	-
Maturity Group VIII							
Cook	41.0	32.8	42.1	1.3	0.0	32	10-19
Maxcy	32.6	27.9	37.8	1.2	0.0	30	10-22
AU 91-13	40.4	32.5	-	-	-	-	-
Prichard	46.4	-	-	-	-	-	-
F 91-2161	37.1	-	-	-	-	-	-
Motte	36.9	-	-	-	-	-	-
F94-2290	35.8	-	-	-	-	-	-
Test Means	37.8	30.5	37.7	1.1	0.1	26	
L.S.D. (.05)	7.8						
C.V. (%)	14.8						

TABLE 14. PERFORMANCE OF SOYBEAN VARIETIES AT FAIRHOPE, ALABAMA, 1998

Brand-Variety	Yield Per Acre <i>bu.</i>	Average			Maturity Date
		Lodging Score	Shattering Score	Plant Height (<i>in.</i>)	
Maturity Group V					
Dyna-Grow 3576	53.0	-	2.5	22	10-3
AgriPro HY574	51.7	-	1.5	35	10-3
Hutcheson	51.1	-	4.0	27	10-1
Riverside 520	50.9	-	1.0	50	10-5
Clifford	50.3	-	1.5	21	9-30
AgriPro AP588RR	50.0	-	2.0	34	10-3
Deltapine DP 5690 RR	49.6	-	1.8	31	10-3
Riverside 549	49.1	-	1.8	28	9-30
Riverside Robin-5	48.2	-	3.3	27	10-3
Accomac	47.4	-	1.5	33	10-1
Maturity Group VI					
Hartz H6255RR	56.1	-	1.3	29	10-16
Dillon	52.4	-	1.5	32	10-4
Hartz H6191	52.1	-	1.5	26	10-10
Suregrow SG 678 RR	48.6	-	1.0	35	10-7
Pioneer 9692	48.1	-	1.8	35	10-10
Deltapine DP 6200 RR	47.5	-	1.3	32	10-4
Hornbeck HBK 67	45.9	-	1.3	35	10-8
AU 92-763	44.7	-	1.3	29	10-5
Dyna-Gro 3682	44.4	-	1.3	38	10-12
Young	44.1	-	2.0	34	10-4
Riverside 678	43.4	-	1.3	34	10-8
Boggs	43.2	-	1.0	35	10-5
Deltapine DP 6880 RR	43.0	-	1.3	40	10-12
Musen	42.6	-	1.0	32	10-13
Bryan	39.5	-	1.3	33	10-12
Maturity Group VII					
Haskell	46.8	-	1.5	38	10-13
Carver	45.8	-	1.0	31	10-9
AgriPro AP 727	44.3	-	2.0	38	10-12
Benning	44.0	-	1.0	37	10-13
Stonewall	43.3	-	1.5	36	10-11
Pioneer 97B61	42.7	-	1.0	34	10-12
Deltapine DP 7375 RR	42.0	-	1.0	38	10-14
Suregrow SG 708 RR	41.3	-	1.8	36	10-8
Hagood	38.7	-	1.0	42	10-18
Maturity Group VIII					
F94-2290	50.0	-	1.0	32	10-15
Motte	40.8	-	1.3	41	10-19
Cook	40.3	-	1.0	37	10-13
Maxcy	39.8	-	1.3	36	10-19
AU 91-13	39.6	-	1.3	39	10-22
F 91-2161	37.8	-	2.0	43	10-17
Prichard	37.3	-	1.0	41	10-21
Test Means	45.6	.	1.5	34	
L.S.D. (.05)	5.6				
C.V. (%)	8.8				

**TABLE 15. PERFORMANCE OF SOYBEAN VARIETIES AT FAIRHOPE, ALABAMA,
THREE-YEAR SUMMARY, 1996-98**

Brand-Variety	Yield Per Acre			3-Year Average			
	1998 <i>bu.</i>	2-Yr. Avg. <i>bu.</i>	3-Yr. Avg. <i>bu.</i>	Lodging Score	Shattering Score	Plant Height (<i>in.</i>)	Maturity Date
Maturity Group V							
Dyna-Grow 3576	53.0	42.8	47.4	1.1	1.6	22	9-29
AgriPro HY574	51.7	40.6	46.7	1.1	1.2	31	9-29
Hutcheson	51.1	40.7	46.1	1.0	2.0	24	9-26
Clifford	50.3	37.2	44.0	1.0	1.6	24	9-23
Riverside 549	49.1	39.5	-	-	-	-	-
Riverside Robin-5	48.2	35.8	-	-	-	-	-
Riverside 520	50.9	-	-	-	-	-	-
AgriPro AP588RR	50.0	-	-	-	-	-	-
Deltapine DP 5690 RR	49.6	-	-	-	-	-	-
Accomac	47.4	-	-	-	-	-	-
Maturity Group VI							
Hartz H6191	52.1	42.1	50.0	1.1	1.3	25	10-9
Young	44.1	38.4	44.5	2.0	1.4	34	10-3
Dillon	52.4	39.7	43.1	1.3	1.2	31	10-2
Bryan	39.5	34.4	40.0	1.3	1.2	32	10-10
Dyna-Gro 3682	44.4	31.3	38.2	1.3	1.1	33	10-9
Musen	42.6	34.4	-	-	-	-	-
Hartz H6255RR	56.1	-	-	-	-	-	-
Suregrow SG 678 RR	48.6	-	-	-	-	-	-
Pioneer 9692	48.1	-	-	-	-	-	-
Deltapine DP 6200 RR	47.5	-	-	-	-	-	-
Hornbeck HBK 67	45.9	-	-	-	-	-	-
AU 92-763	44.7	-	-	-	-	-	-
Riverside 678	43.4	-	-	-	-	-	-
Boggs	43.2	-	-	-	-	-	-
Deltapine DP 6880 RR	43.0	-	-	-	-	-	-
Maturity Group VII							
Haskell	46.8	35.2	42.9	2.6	1.2	35	10-11
Carver	45.8	36.1	41.7	1.0	1.1	31	10-7
Stonewall	43.3	33.5	40.5	1.5	1.2	34	10-9
Hagood	38.7	30.2	38.2	2.4	1.1	38	10-16
AgriPro AP 727	44.3	34.0	-	-	-	-	-
Benning	44.0	34.0	-	-	-	-	-
Pioneer 97B61	42.7	31.2	-	-	-	-	-
Deltapine DP 7375 RR	42.0	-	-	-	-	-	-
Suregrow SG 708 RR	41.3	-	-	-	-	-	-
Maturity Group VIII							
Cook	40.3	32.7	39.7	1.9	1.0	36	10-13
Maxcy	39.8	28.5	36.8	2.4	1.1	35	10-16
AU 91-13	39.6	32.6	-	-	-	-	-
F94-2290	50.0	-	-	-	-	-	-
Motte	40.8	-	-	-	-	-	-
F 91-2161	37.8	-	-	-	-	-	-
Prichard	37.3	-	-	-	-	-	-
Test Means	45.6	35.7	42.7	1.5	1.3	31	
L.S.D. (.05)	5.6						
C.V. (%)	8.8						

TABLE 16. PERFORMANCE OF SOYBEAN VARIETIES AT SHORTER, ALABAMA, 1998

Brand-Variety	Yield Per Acre <i>bu.</i>	Average			Maturity Date
		Lodging Score	Shattering Score	Plant Height (<i>in.</i>)	
Maturity Group V					
Dyna-Grow 3576	15.3	0.0	0.0	23	9-17
Hutcheson	14.3	0.0	0.0	21	9-17
Accomac	13.7	0.0	0.0	25	9-15
Deltapine DP 5690 RR	13.0	0.0	0.0	27	9-10
AgriPro AP588RR	12.9	0.0	0.0	27	9-17
AgriPro HY574	12.5	0.0	0.0	28	9-18
Suregrow SG 597 RR	11.3	0.0	0.0	32	9-19
Suregrow SG 567 RR	11.2	0.0	0.0	25	9-17
Riverside 520	10.6	0.0	0.0	29	9-19
Maturity Group VI					
Young	15.6	0.0	0.0	30	9-20
Pioneer 9692	15.2	0.0	0.0	28	10-18
AU 92-763	14.6	0.0	0.0	27	9-23
Dyna-Gro 3682	14.3	0.0	0.0	30	10-26
Boggs	13.8	0.0	0.0	26	9-26
Riverside 678	13.7	0.0	0.0	30	10-22
Dillon	12.9	0.0	0.0	27	9-19
Suregrow SG 678 RR	12.3	0.0	0.0	27	10-26
Musen	12.2	0.0	0.0	27	10-26
Hornbeck HBK 67	12.1	0.0	0.0	27	9-20
Maturity Group VII					
Benning	15.5	0.0	0.0	32	10-23
Haskell	12.7	0.0	0.0	32	10-30
Stonewall	12.0	0.0	0.0	29	10-20
Pioneer 97B61	11.6	0.0	0.0	34	10-30
Suregrow SG 708 RR	11.2	0.0	0.0	37	10-17
Carver	9.0	0.0	0.0	25	10-6
Test Means	12.9	0.0	0.0	28	
L.S.D. (.05)	3.9				
C.V. (%)	21.3				

**TABLE 17. PERFORMANCE OF VERY EARLY PLANTED SOYBEAN VARIETIES
AT BREWTON, ALABAMA, 1998**

Brand-Variety	Yield Per Acre <i>bu.</i>	Average			Maturity Date
		Lodging Score	Shattering Score	Plant Height (<i>in.</i>)	
Maturity Group V					
Deltapine DP 5806 RR	29.2	1.0	0.0	15	9-8
Deltapine DP 5690 RR	23.6	1.0	0.0	14	9-5
AgriPro HY574	20.4	1.0	0.0	13	9-6
Deltapine DP 5354	19.8	1.0	0.0	13	9-3
Deltapine DP 5644 RR	19.7	1.0	0.0	12	9-4
Suregrow SG 567 RR	18.0	1.0	0.0	12	9-5
Suregrow SG 597 RR	17.2	1.0	0.0	15	9-6
Hutcheson	11.6	1.0	0.0	11	9-3
Holladay	8.9	1.0	0.0	12	9-3
Maturity Group VI					
Musen	37.7	1.0	0.0	15	9-19
Dillon	31.8	1.0	0.0	14	9-9
Suregrow SG 678 RR	31.3	1.0	0.0	14	9-16
Boggs	27.1	1.0	0.0	13	9-14
Suregrow SG 617 RR	26.3	1.0	0.0	14	9-9
Pioneer 9692	25.4	1.0	0.0	13	9-16
Young	22.0	1.0	0.0	14	9-8
Bryan	17.3	1.0	0.0	15	9-20
Maturity Group VII					
Haskell	31.2	1.0	0.0	17	9-23
Carver	23.7	1.0	0.0	12	9-16
Stonewall	17.9	1.0	0.0	14	9-22
Test Means	23.0	1.0	0.0	13	
L.S.D. (.05)	6.4				
C.V. (%)	19.8				

TABLE 18. PERFORMANCE OF SOYBEAN VARIETIES IN PRELIMINARY TESTS, 1998

Brand-Variety	Yield Per Acre		
	Northern (Belle Mina) <i>bu.</i>	Central (Prattville) <i>bu.</i>	Southern (Monroeville) <i>bu.</i>
Group IV			
Deltapine DPX 8849	18.3	-	-
Dyna-Gro 3463	12.8	-	-
F 91-3076	13.9	-	-
F 94-1141	15.3	-	-
Mycogen 470	13.4	-	-
Mycogen X57474	7.2	-	-
TN 4-86	9.6	-	-
Group V			
AgriPro AP543RR	18.1	19.6	31.8
AgriPro HY574	16.1	25.0	51.8
Deltapine DPX 8S56	18.9	-	-
Deltapine DPX 8S59	15.4	-	-
Hutcheson	20.5	25.4	47.2
TV 5466 RR	19.2	-	-
TV 5666 RR	15.9	23.6	33.3
TV 5866 RR	17.0	18.2	-
UAPX 0038	10.8	-	-
Group VI			
Deltapine DPX 8S60	12.6	23.9	-
Dillon	12.9	19.5	46.4
Pioneer 9692	16.3	21.9	52.2
Suregrow SGX 66 RR	-	22.8	48.7
Suregrow SGX 68 RR	-	22.0	42.3
Group VII			
Deltapine DPX 8S74 RR	-	25.5	54.0
Deltapine DPX 8S75	-	30.3	51.6
F-91-1577	14.3	24.0	47.6
F94-1604	12.3	31.2	40.0
F94-2119	11.7	21.3	38.2
Haskell	14.9	17.2	47.0
Suregrow SGX 75 RR	-	24.6	46.7
Test Means	14.7	23.8	45.2
L.S.D. (0.05)	4.1	5.8	5.9
C.V. (%)	19.9	17.2	9.2

TABLE 19. ENTRIES AND SOURCES FOR 1998

Company	Brand-Variety
AgriPro Seed, Inc., Memphis, Tennessee	AP, HY brand varieties
Alabama Crop Imp. Assoc., Auburn, Alabama	Carver, Hutcheson, Stonewall, Young
Asgrow Seed Co., Matthews, Missouri	Asgrow brand varieties
Delta and Pine Land Company, Scott, Mississippi	Deltapine brand varieties
Delta King Seed Co., McCrory, Arkansas	Delta King brand varieties
Department of Agronomy and Soils, Auburn University, Alabama	Au 91-13, Au 92-916, Au 92-763
Escambia Farm and Seed Co., Atmore, Alabama	Braxton, Centennial
Georgia Seed Development Comm., Athens, Georgia	Bryan, Cook, Doles
Hartz Seed Company, Inc., Kinston, North Carolina	Hartz brand varieties
North Carolina State University, Raleigh, North Carolina	Clifford
Mycogen Seeds, Plainview, Texas	Mycogen brand varieties
Pioneer Hi-Bred International, Inc., Huntsville, Alabama	Pioneer brand varieties
South Carolina Crop Impr. Assoc., Clemson, South Carolina	Dillon, Hagood, Maxcy, Motte, Musen
Southern Elite Genetics, Statesboro, Georgia	Benning, Boggs, Haskell, Prichard
Sure Grow Seed, Inc., Centre, Alabama	Suregrow, SG brand varieties
Terra International, Inc., Memphis, Tennessee	Riverside, RVS brand varieties
Terral Seed, Inc, Lake Providence, Louisiana	Terral, TV brand varieties
United Agri-Products, Athens, Alabama	Dyna-Gro brand varieties, UAP
University of Florida, Quincy, Florida	F91-1141, F94-1604, F91-2161, F94-2119, F91-3076, F94-2290
University of Tennessee, Knoxville, Tennessee	TN 4-86, TN 4-94
Virginia Polytechnic Institute, Blacksburg, Virginia	Accomac