

*Performance  
of Soybean  
Varieties in  
Alabama,  
2004*

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# PERFORMANCE OF SOYBEAN VARIETIES IN ALABAMA, 2004

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## INTRODUCTION

Soybean variety tests are conducted annually by the Alabama Agricultural Experiment Station. The 7 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:

<u>Region</u>	<u>Location</u>
Northern	Belle Mina, Crossville
Central	Prattville, Shorter
Southern	Brewton
Black Belt	Marion Junction (2 soils)
Gulf Coast	Fairhope

## EXPERIMENTAL PROCEDURES

The standard tests were conducted as a randomized complete block design with four replications. Standard plot size was four 30- to 38-inch rows by 20 feet long. Fifteen feet of the middle two rows were harvested for yield. Seeding rate was 10 viable seeds per foot of row. The Group IV test was drilled with seven 7-inch rows. Seeding rate was five 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 indicates no shattering, a rating of 3 indicates a 4 to 8 percent shattering, and a rating of 5 is 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 achieved mature pod color. Harvest was approximately 7 to 10 days later.

## **SEASONAL CONDITIONS**

Rainfall for 2004 is shown in Table 17. The normal planting dates for the standard tests are the first week in May, May 15-25, and May 25 to June 5 for northern, central, and southern Alabama locations, respectively. The Vaiden Soil test at Marion Junction was not harvested due to weak stand then excessive moisture during the growing season. The Early and Regular tests at Brewton were destroyed by hurricane Ivan.

## **COMPARING VARIETIES**

To aid in determining real yield differences, a statistical analysis of variance was performed on the data from each location. The L.S.D. (least significant difference) and C.V. (coefficient of variation) are reported for each location's 2003 test, and for the location's or region's 2- and 3-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.

Since the performance of varieties varies with location and year, long-term averages from several locations are more reliable than 1-year performance. Three-year regional averages are considered a reliable evaluation of the relative performance of varieties. However varietal rankings may change among years and among locations. This change in rankings is measured by the significance of variety x location, variety x year, variety x location\*year interaction. These interactions were significant in all cases. Thus, care should be exercised when extrapolating results from one location or year to another.

## **ACKNOWLEDGMENTS**

Appreciation is expressed to the following station superintendents and their staffs. It is their quality work which makes this report a reliable source of information for farmers in their regions. Chet Norris and Ellis Burgess, Tennessee Valley Research and Extension Center; Tony Dawkins, Sand Mountain Research and Extension Center; Don Moore, Prattville Agricultural Research Unit; Bobby Durbin, E.V. Smith Research Center, Field Crops Research Unit; Jimmy Holliman, Black Belt Research and Extension Center; Randy Akridge, Brewton Agricultural Research Unit; Ronnie McDaniel and Malcomb Pegues, Gulf Coast Research and Extension Center.

TABLE 1. PERFORMANCE OF GROUP IV SOYBEAN VARIETIES AT BELLE MINA, ALABAMA, 2004

Variety	Yield	Lodging score	Shattering score	Plant height	Maturity date
	- bu/acre -			- inches -	
	Maturity Group IV				
USG 7482nRR	69.1	2.0	1.0	34	9-3
USG 7484nRR	64.9	2.3	1.0	34	9-2
Garst XR49N99	64.9	1.0	1.0	41	9-10
USG 7489RR	64.7	1.5	1.0	38	9-5
USG 7494nRR	64.3	2.0	1.0	34	9-3
Asgrow AG 4903	60.1	1.5	1.0	33	9-7
USG 7499nRR	59.4	1.8	1.0	38	9-4
SS RT 5130N	58.4	2.0	1.0	28	9-15
SS RT 5001N	56.7	1.3	1.0	35	9-15
SS RT 4980	54.7	1.0	1.0	35	9-3
Croplan Genetics RC 4848RR	54.1	2.0	1.0	37	9-6
Deltapine DP 4724 RR	52.2	2.0	1.0	31	9-1
Deltapine DP 4546 RR	51.7	2.0	1.0	34	9-2
Garst 4612 RR/N	51.4	1.8	1.3	31	8-31
Croplan Genetics RC 4842	51.3	2.5	1.0	33	9-3
Croplan Genetics RC 4992	50.2	1.3	1.0	41	9-9
Asgrow AG 4403	49.7	1.3	1.0	33	8-29
Dyna-Gro 3443	48.4	1.0	1.0	31	9-2
Dekalb DKB 46-51	48.4	1.3	1.0	31	8-31
Pioneer 94M90	48.3	1.0	1.3	31	9-2
Pioneer 94B74	48.2	2.3	1.0	33	8-31
Asgrow AG 4603	46.5	1.0	1.0	30	8-31
Pioneer 94M70	46.3	2.0	1.0	32	8-31
Deltapine DP 4933 RR	45.5	1.3	1.0	39	9-9
Dyna-Gro 39G43	44.5	1.0	1.0	30	8-28
SS RT 4810N	44.0	1.8	1.0	35	9-5
Croplan Genetics RC 4464	43.0	1.0	1.0	31	8-27
SS RT 446N	39.1	1.5	1.0	32	8-31
SS RT 4502N	35.7	1.0	1.3	36	8-31
<b>Trial mean</b>	52.3	1.6	1.0	33.7	
<b>LSD(0.10)</b>	10	1	0	3	
<b>CV (%)</b>	11	25	16	5	

TABLE 2. PERFORMANCE OF SOYBEAN VARIETIES IN NORTHERN ALABAMA, 2004

Variety	Belle Mina	Cross- ville	Regional Average				Maturity date
			Yield	Lodging score	Shattering score	Plant height	
----- bu/acre -----			- inches -				
Maturity Group IV							
Asgrow AG 4903	66.9	59.2	63.1	2.0	1.0	36	9-15
Delta King DKXTJ548	61.4	47.9	54.6	3.0	1.2	33	9-12
Delta King 4967RR	57.3	48.0	52.6	2.5	1.0	33	9-10
Asgrow AG 4403	62.3	40.7	51.5	2.7	1.0	35	9-8
Pioneer 94M90	59.2	43.0	51.1	2.0	1.0	36	9-13
Delta King 4763RR	59.2	42.8	51.0	2.2	1.3	35	9-13
Asgrow AG 4603	54.3	42.4	48.3	1.7	1.2	33	9-13
R98-1817	55.6	40.0	47.8	2.0	1.2	30	9-20
Pioneer 94M70	51.5	33.7	42.6	3.0	1.0	33	9-6
Maturity Group V							
Delta King 5161RR	47.8	69.1	58.4	2.7	1.3	30	10-1
Delta King XTJ 555	56.2	58.1	57.2	2.3	1.3	30	10-1
SS RT 5302N	51.6	60.5	56.1	2.0	1.0	35	9-30
Dekalb DKB 58-51	44.0	67.6	55.8	2.8	1.0	32	9-29
USG 7562nRR	44.4	64.4	54.4	2.8	1.3	29	10-3
Delta King 5366RR	45.6	63.0	54.3	3.0	1.3	27	10-1
R97-1634	50.4	57.8	53.6	2.3	1.3	32	10-3
Delta King 5967RR	41.2	64.8	53.0	2.3	1.2	35	10-4
Garst 5412RR/STS/N	47.2	58.3	52.8	2.2	1.2	32	9-26
USG 7553nRS	43.9	60.9	52.4	2.3	1.0	33	10-1
Croplan Genetics RC 5972	45.1	59.3	52.2	2.3	1.0	37	10-3
SS RT 5540N	49.0	55.1	52.1	2.0	1.3	37	9-29
Dyna-Gro SX04557	44.2	59.9	52.1	2.5	1.2	31	10-2
Anand	56.5	47.5	52.0	1.8	1.2	31	10-4
USG 7582nRR	36.2	67.2	51.7	2.3	1.0	35	10-3
Garst 5212RR/N	44.4	58.8	51.6	1.8	1.2	37	9-30
Croplan Genetics RC 5003	49.2	53.6	51.4	2.2	1.3	34	9-27
SS RT 5450N	46.5	55.7	51.1	2.2	1.3	31	9-27
Croplan Genetics RC 5892	41.2	60.6	50.9	2.3	1.0	40	10-4
Ozark	44.9	56.6	50.7	2.5	1.0	32	10-3
Asgrow AG 5301	44.0	56.6	50.3	2.2	1.0	33	9-27
Deltapine DP 5414RR	44.9	53.6	49.3	2.7	1.5	32	9-30
Deltapine DP 5634RR	43.0	54.8	48.9	2.7	1.2	36	9-29
Pioneer 95B42	51.3	46.2	48.8	2.7	1.0	33	9-30
SS RT 5999N	41.9	54.5	48.2	2.0	1.2	39	10-4
Hutcheson	40.8	53.3	47.1	2.7	1.3	31	9-28
Pioneer 95M80	44.6	49.3	47.0	2.5	1.0	36	10-2
Deltapine DP 5915RR	46.8	46.1	46.4	2.3	1.0	31	10-17
SS RT 5930N	35.7	55.7	45.7	2.3	1.0	35	10-3
Croplan Genetics RC 5555	38.7	52.1	45.4	2.5	1.2	36	9-30

continued

TABLE 2. CONTINUED

Variety	Belle Mina	Cross- ville	Regional Average			Plant height	Maturity date
			Yield	Lodging score	Shattering score		
----- bu/acre -----			- inches -				
Maturity Group V continued							
Deltapine DPX5808RR	42.5	47.3	44.4	3.3	1.2	31	10-2
Garst 5812RR/N	37.3	49.9	43.6	2.2	1.0	41	10-2
Lonoke	30.9	55.5	43.2	2.3	1.2	31	10-1
Garst 5924RR/N	25.7	58.9	42.3	2.7	1.0	32	10-3
Croplan Genetics RC 5222	38.5	46.0	42.3	2.7	1.2	32	9-25
SS RT 557N	37.5	47.0	42.2	3.5	1.7	33	9-26
Dyna-Gro SX04159	17.8	35.6	26.7	2.2	1.3	39	10-1
Maturity Group VI							
USG 620NRR	42.4	44.9	43.6	2.5	1.0	33	10-14
SS RT 6202	36.0	48.0	42.0	2.3	1.0	34	10-14
Garst 6333RR/N	37.9	42.6	40.2	2.2	1.0	37	10-5
Garst 6112RR/N	31.7	44.2	37.9	2.5	1.0	30	10-14
Musen	42.8	32.4	37.6	2.7	1.0	35	10-20
USG 7604nRR	35.8	37.3	36.5	2.0	1.0	35	10-11
Desha	22.7	30.1	26.4	2.3	1.0	34	10-8
Au AX 416	24.6	27.6	26.1	2.3	1.0	40	10-22
Maturity Group VII							
Stonewall	37.2	42.4	39.8	2.7	1.2	33	10-14
USG 7732nRR	38.2	33.4	35.8	2.8	1.3	33	10-17
SS RT 7499N	24.0	23.8	23.9	2.2	1.2	41	10-15
<b>Trial mean</b>	37.3	45.7	41.5	2.5	1.1	34.3	
<b>LSD(0.10)</b>	13	18	11	1	1	6	
<b>CV (%)</b>	21	23	16	24	29	10	

TABLE 3. PERFORMANCE OF SOYBEAN VARIETIES IN NORTHERN ALABAMA,  
THREE-YEAR SUMMARY, 2002 - 2004

	Yield			Lodging score	Shattering score	Plant height	Maturity date
	2004	2-yr avg	3-yr avg				
	----- bu/acre -----					- inch -	
Maturity Group IV							
Delta King 4763RR	51	57	50	1.4	1.1	32	9-15
Delta King 4967RR	53	55	.	1.7	1.2	32	9-17
Asgrow AG 4903	63	.	.	2.0	1.0	36	9-15
Delta King DKXTJ548	55	.	.	3.0	1.2	33	9-12
Asgrow AG 4403	52	.	.	2.7	1.0	35	9-8
Pioneer 94M90	51	.	.	2.0	1.0	36	9-13
Asgrow AG 4603	48	.	.	1.7	1.2	33	9-13
R98-1817	48	.	.	2.0	1.2	30	9-20
Pioneer 94M70	43	.	.	3.0	1.0	33	9-6
Maturity Group V							
Pioneer 95B42	49	53	47	1.8	1.2	37	9-26
Delta King 5366RR	54	53	45	1.9	1.2	35	10-1
SS RT 5302N	56	53	45	1.4	1.0	38	9-29
USG 7582nRR	52	52	44	1.6	1.0	36	10-3
Deltapine DP 5414RR	49	49	44	1.6	1.3	34	9-26
Deltapine DP 5915RR	46	50	43	1.6	1.0	36	10-11
SS RT 557N	42	47	42	2.2	1.3	37	9-29
SS RT 5999N	48	49	42	1.4	1.0	40	10-5
Hutcheson	47	47	41	1.6	1.1	33	9-28
Delta King 5161RR	58	56	.	2.1	1.4	32	10-1
Delta King 5967RR	53	54	.	1.8	1.1	35	10-10
Garst 5412RR/STS/N	53	53	.	1.8	1.3	33	9-30
Garst 5212RR/N	52	51	.	1.4	1.2	38	10-2
SS RT 5930N	46	51	.	1.8	1.0	36	10-10
Deltapine DP 5634RR	49	48	.	2.0	1.2	38	10-5
Garst 5812RR/N	44	48	.	1.7	1.0	41	10-7
Delta King XTJ 555	57	.	.	2.3	1.3	30	10-1
Dekalb DKB 58-51	56	.	.	2.8	1.0	32	9-29
R97-1634	55	.	.	2.3	1.3	32	10-3
USG 7562nRR	54	.	.	2.8	1.3	29	10-3
USG 7553nRS	52	.	.	2.3	1.0	33	10-1
Croplan Genetics RC 5972	52	.	.	2.3	1.0	37	10-3
SS RT 5540N	52	.	.	2.0	1.3	37	9-29
Dyna-Gro SX04557	52	.	.	2.5	1.2	31	10-2
Anand	52	.	.	1.8	1.2	31	10-4
Croplan Genetics RC 5003	51	.	.	2.2	1.3	34	9-27
SS RT 5450N	51	.	.	2.2	1.3	31	9-27
Croplan Genetics RC 5892	51	.	.	1.8	1.1	39	10-1
Ozark	51	.	.	2.5	1.0	32	10-3

continued



TABLE 3. CONTINUED

	Yield			Lodging score	Shattering score	Plant height	Maturity date
	2004	2-yr avg	3-yr avg				
	----- bu/acre -----			- inch -			
Maturity Group IV							
Asgrow AG 5301	50	.	.	2.2	1.0	33	9-27
Pioneer 95M80	47	.	.	2.5	1.0	36	10-2
Croplan Genetics RC 5555	45	.	.	2.5	1.2	36	9-30
Deltapine DPX5808RR	45	.	.	3.3	1.2	31	10-3
Lonoke	43	.	.	2.3	1.2	31	10-2
Garst 5924RR/N	42	.	.	2.7	1.0	32	10-4
Croplan Genetics RC 5222	42	.	.	2.7	1.2	32	9-26
Dyna-Gro SX04159	27	.	.	2.2	1.3	39	10-2
Maturity Group VI							
SS RT 6202	42	49	41	1.6	1.1	38	10-9
USG 620NRR	44	47	41	1.8	1.0	38	10-10
Musen	38	38	35	1.5	1.0	37	10-27
Garst 6333RR/N	40	.	.	2.2	1.0	37	10-6
Garst 6112RR/N	38	.	.	1.7	1.0	35	10-10
USG 7604nRR	37	.	.	2.0	1.0	35	10-12
Desha	26	.	.	2.3	1.0	34	10-9
Au AX 416	26	.	.	2.3	1.0	40	10-23
Maturity Group VII							
Stonewall	40	42	.	2.3	1.2	37	10-19
USG 7732nRR	36	34	.	2.2	1.2	36	10-22
SS RT 7499N	24	26	.	1.8	1.1	41	10-19
<b>Trial mean</b>	81	48	43	2	1	35	
<b>LSD(0.10)</b>	15	8	5				
<b>CV (%)</b>	11	10	7				

TABLE 4. PERFORMANCE OF SOYBEAN VARIETIES AT PRATTVILLE, ALABAMA, 2004

Variety	Yield	Lodging score	Shattering score	Plant height	Maturity date
	- bu/acre -			- inches -	
Maturity Group IV					
Delta King DKXTJ548	25.1	1.0	1.0	28	10-6
Delta King 4967RR	22.8	1.0	1.3	29	10-6
R98-1817	22.1	1.0	1.0	23	10-7
Delta King 4763RR	21.2	1.0	1.0	30	10-6
Maturity Group V					
Progeny 5714RR	35.6	1.0	1.0	31	10-8
R97-1634	35.1	1.0	1.0	28	10-9
Delta King 5366RR	35.0	1.0	1.0	25	10-6
Hutcheson	33.6	1.0	1.3	25	10-11
Delta King XTJ 555	33.4	1.0	1.0	25	10-8
Ozark	33.1	1.0	1.0	26	10-7
Delta King 5161RR	32.5	1.0	1.0	23	10-7
Deltapine DP 5634RR	32.3	1.0	1.0	28	10-7
Progeny 5404RR	32.1	1.0	1.0	26	10-7
Anand	31.5	1.0	1.0	23	10-12
Progeny 5703RR	31.1	1.0	1.0	28	10-8
Progeny 5822RR	30.7	1.0	1.0	27	10-20
Deltapine DPX5808RR	29.1	1.0	1.0	27	10-8
Progeny 5503RR	28.9	1.0	1.0	24	10-6
Lonoke	27.9	1.0	1.0	24	10-15
Deltapine DP 5915RR	27.1	1.0	1.3	29	10-18
Pioneer 95M80	26.4	1.0	1.3	24	10-14
Deltapine DP 5414RR	25.7	1.0	1.0	29	10-8
Delta King 5967RR	25.4	1.0	1.3	25	10-18
Progeny 5660RR	24.5	1.0	1.0	28	10-10
Progeny 5250RR	22.0	1.0	1.0	23	10-16
Maturity Group VI					
Garst 6112RR/N	36.9	1.0	1.0	28	10-11
Desha	36.7	1.0	1.0	32	10-10
Deltapine DP 6215RR	34.5	1.0	1.0	30	10-10
Pioneer 96M20	34.3	1.0	1.0	29	10-12
Garst 6333RR/N	34.3	1.0	1.3	30	10-17
Deltapine DP 6880 RR	33.6	1.0	1.0	34	10-16
Musen	31.3	1.0	1.0	29	10-18
Au AX 416	27.0	2.3	1.0	42	10-21

*continued*

TABLE 4. CONTINUED

Variety	Yield	Lodging score	Shattering score	Plant height	Maturity date
	- bu/acre -			- inches -	
Maturity Group VII					
Deltapine DP 7870RR	37.9	1.0	1.0	34	10-19
Dyna-Gro 33Z74	36.0	1.5	1.0	37	10-18
Stonewall	35.5	1.0	1.0	30	10-18
Asgrow AG 7601	32.7	1.0	1.0	37	10-29
Dyna-Gro 34J71	31.4	1.3	1.0	23	10-15
Deltapine DP 7220RR	30.8	1.0	1.0	30	10-19
USG 7732nRR	29.8	2.0	1.3	30	10-21
Dyna-Gro SX04370	28.8	1.3	1.0	39	10-19
<b>Trial mean</b>	30.6	1.1	1.0	28	
<b>LSD(0.10)</b>	9	0	0.3	5	
<b>CV (%)</b>	19	22	20	10	

TABLE 5. PERFORMANCE OF SOYBEAN VARIETIES AT PRATTVILLE, ALABAMA,  
THREE-YEAR SUMMARY, 2002-2004

Variety	2004	2-yr avg	3-yr avg	Lodging	Shattering	Plant	Maturity
	----- bu/acre -----			score	score	height	date
----- inch -----							
Maturity Group IV							
Delta King 4967RR	23	38	†	1	1	30	9-22
Delta King 4763RR	21	36		1	1	30	9-24
Delta King DKXTJ548	25	.		1	1	28	10-6
R98-1817	22	.		1	1	23	10-7
Maturity Group V							
Deltapine DP 5634RR	32	52		1	1	30	10-1
Hutcheson	34	51		1	1	25	10-2
Delta King 5366RR	35	49		1	1	28	9-30
Delta King 5161RR	33	48		1	1	24	9-28
Deltapine DP 5915RR	27	47		1	1	29	10-9
Delta King 5967RR	25	44		1	1	27	10-7
Deltapine DP 5414RR	26	43		1	1	29	10-4
Progeny 5714RR	36	.		1	1	31	10-8
R97-1634	35	.		1	1	28	10-9
Delta King XTJ 555	33	.		1	1	25	10-8
Ozark	33	.		1	1	26	10-7
Progeny 5404RR	32	.		1	1	26	10-7
Anand	31	.		1	1	23	10-12
Progeny 5703RR	31	.		1	1	28	10-8
Progeny 5822RR	31	.		1	1	27	10-20
Deltapine DPX5808RR	29	.		1	1	27	10-8
Progeny 5503RR	29	.		1	1	24	10-6
Lonoke	28	.		1	1	24	10-15
Pioneer 95M80	26	.		1	1	24	10-14
Progeny 5660RR	25	.		1	1	28	10-10
Progeny 5250RR	22	.		1	1	23	10-16

*continued*

† no 3-yr average because the 2002 trial was lost due to severe insect damage.

TABLE 5. CONTINUED

	Yield		Lodging score	Shattering score	Plant height - inch -	Maturity date
	2004	2-yr avg ----- bu/acre -----				
Maturity Group VI						
Garst 6112RR/N	37	50	†	1	31	10-5
Deltapine DP 6880 RR	34	47		1	32	10-10
Musen	31	41		1	30	10-12
Desha	37	.		1	32	10-10
Deltapine DP 6215RR	35	.		1	30	10-10
Pioneer 96M20	34	.		1	29	10-12
Garst 6333RR/N	34	.		1	30	10-17
Au AX 416	27	.		2	42	10-21
Maturity Group VII						
Deltapine DP 7870RR	38	52		1	35	10-12
Stonewall	36	48		1	30	10-10
Deltapine DP 7220RR	31	41		1	31	10-10
Dyna-Gro 33Z74	36	.		2	37	10-18
Asgrow AG 7601	33	.		1	37	10-29
Dyna-Gro 34J71	31	.		1	23	10-15
USG 7732nRR	30	.		2	30	10-21
Dyna-Gro SX04370	29	.		1	39	10-19
<b>Trial mean</b>	78	46		1	29	
<b>LSD(0.10)</b>	9	9				
<b>CV (%)</b>	7	11				

† no 3-yr average because the 2002 trial was lost due to severe insect damage

TABLE 6. PERFORMANCE OF SOYBEAN VARIETIES AT SHORTER, ALABAMA, 2004

Variety	Yield	Lodging score	Shattering score	Plant height	Maturity date
	- bu/acre -			- inches -	
Maturity Group IV					
R98-1817	46.9	0.3	0	26	9-29
Delta King DKXTJ548	43.0	0.0	0	28	9-13
Delta King 4967RR	39.9	0.3	0	29	9-15
Delta King 4763RR	37.8	0.0	0	32	9-12
Maturity Group V					
R97-1634	57.9	0.0	0	22	10-1
Deltapine DP 5634RR	55.7	1.3	0	37	9-28
Lonoke	54.8	0.7	0	27	10-3
Hutcheson	54.1	0.3	0	29	10-2
Delta King XTJ 555	53.8	0.0	0	23	9-28
Delta King 5366RR	52.7	0.7	0	29	9-30
Deltapine DP 5915RR	51.6	1.3	0	33	10-5
Delta King 5967RR	51.5	0.7	0	33	10-5
Progeny 5714RR	51.2	3.0	0	36	10-2
Progeny 5404RR	50.2	0.0	0	25	10-2
Ozark	49.8	1.0	0	34	10-3
Progeny 5660RR	49.1	1.0	0	33	10-4
Progeny 5703RR	48.9	1.0	0	33	10-2
Deltapine DPX5808RR	48.6	2.7	0	35	9-28
Deltapine DP 5414RR	47.4	2.0	0	38	10-2
Progeny 5503RR	45.3	0.0	0	28	10-3
Anand	45.1	0.0	0	28	9-24
Progeny 5822RR	44.5	0.7	0	36	10-7
Progeny 5250RR	43.5	0.3	0	20	9-20
Delta King 5161RR	42.8	0.7	0	35	9-30
Pioneer 95M80	42.8	0.3	0	29	10-3
Maturity Group VI					
Garst 6333RR/N	51.1	1.7	0	36	10-4
Deltapine DP 6215RR	51.1	1.0	0	34	10-3
Pioneer 96M20	49.0	1.7	0	34	10-4
Garst 6112RR/N	49.0	2.0	0	38	10-6
Deltapine DP 6880 RR	47.2	2.0	0	39	10-7
Desha	47.0	1.0	0	29	10-4
Au AX 416	45.9	2.0	0	46	10-12
Musen	40.4	3.0	0	34	10-9

*continued*

TABLE 6. CONTINUED

Variety	Yield	Lodging score	Shattering score	Plant height	Maturity date
	- bu/acre -			- inches -	
Maturity Group VII					
Deltapine DP 7870RR	54.4	2.3	0	39	10-11
Dyna-Gro SX04370	51.8	1.7	0	44	10-9
Dyna-Gro 33Z74	50.7	1.7	0	47	10-13
Stonewall	50.0	2.0	0	32	10-8
USG 7732nRR	49.5	2.3	0	35	10-14
Dyna-Gro 34J71	49.5	2.3	0	34	10-11
Deltapine DP 7220RR	49.4	0.7	0	35	10-8
Asgrow AG 7601	45.0	0.7	0	36	10-18
<b>Trial mean</b>	48.5	1.1	0	35	
<b>LSD(0.10)</b>	10	2		10	
<b>CV (%)</b>	13	83		17	

TABLE 7. PERFORMANCE OF SOYBEAN VARIETIES AT SHORTER, ALABAMA, THREE-YEAR SUMMARY, 2002-2004

Variety	Yield			Lodging score	Shattering score	Plant height	Maturity date
	2004	2-yr avg	3-yr avg				
	----- bu/acre -----						
Maturity Group IV							
R98-1817	47	†	†	0	0	26	9-29
Delta King DKXTJ548	43			0	0	28	9-13
Delta King 4967RR	40			0	0	29	9-15
Delta King 4763RR	38			1	0	32	8-31
Maturity Group V							
Hutcheson	54	59	48	0	0	31	9-20
Delta King 5366RR	53	57	45	1	0	33	9-21
Deltapine DP 5634RR	56	60	.	1	0	34	9-26
Deltapine DP 5915RR	52	55	.	1	0	30	10-4
Delta King 5161RR	43	54	.	1	0	32	9-26
Delta King 5967RR	52	53	.	1	0	32	9-30
Deltapine DP 5414RR	47	52	.	1	0	33	9-28
R97-1634	58	.	.	0	0	22	10-1
Lonoke	55	.	.	1	0	27	10-3
Delta King XTJ 555	54	.	.	0	0	23	9-28
Progeny 5714RR	51	.	.	3	0	36	10-2
Progeny 5404RR	50	.	.	0	0	25	10-2
Ozark	50	.	.	1	0	34	10-3
Progeny 5660RR	49	.	.	1	0	33	10-4
Progeny 5703RR	49	.	.	1	0	33	10-2
Deltapine DPX5808RR	49	.	.	3	0	35	9-28
Progeny 5503RR	45	.	.	0	0	28	10-3
Anand	45	.	.	0	0	28	9-24
Progeny 5822RR	45	.	.	1	0	36	10-7
Progeny 5250RR	44	.	.	0	0	20	9-20
Pioneer 95M80	43	.	.	0	0	29	10-3

*continued*

† the were no maturity group IV entries in common in 2004, 2003, and 2002.



TABLE 7. CONTINUED

	Yield			Lodging score	Shattering score	Plant height - inch -	Maturity date
	2004	2-yr avg	3-yr avg				
	----- bu/acre -----						
Maturity Group VI							
Musen	40	49	38	1	0	35	10-16
Garst 6112RR/N	49	57	.	1	0	33	10-7
Deltapine DP 6880 RR	47	54	.	2	0	35	10-12
Garst 6333RR/N	51	.	.	2	0	36	10-4
Deltapine DP 6215RR	51	.	.	1	0	34	10-3
Pioneer 96M20	49	.	.	2	0	34	10-4
Desha	47	.	.	1	0	29	10-4
Au AX 416	46	.	.	2	0	46	10-12
Maturity Group VII							
Stonewall	50	57	43	1	0	35	10-12
Deltapine DP 7870RR	54	61	.	2	0	36	10-14
Deltapine DP 7220RR	49	53	.	1	0	33	10-13
Dyna-Gro SX04370	52	.	.	2	0	44	10-9
Dyna-Gro 33Z74	51	.	.	2	0	47	10-13
USG 7732nRR	49	.	.	2	0	35	10-14
Dyna-Gro 34J71	49	.	.	2	0	34	10-11
Asgrow AG 7601	45	.	.	1	0	36	10-18
<b>Trial mean</b>	95	55	43	1	0	32	
<b>LSD(0.10)</b>	10	9	7				
<b>CV (%)</b>	6	9	8				

TABLE 8. PERFORMANCE OF SOYBEAN VARIETIES ON SUMTER SOIL,  
MARION JUNCTION, ALABAMA, 2004

Brand-Variety	Yield	Lodging score	Shattering score	Plant height	Iron Chlorosis †	Maturity date
	- bu/acre -			- inches -		
Maturity Group IV						
R98-1817	5.3	1.0	1.0	11.5	4.8	9-28
Croplan Genetics RC 4992	4.5	1.3	1.3	17.0	7.9	10-6
Croplan Genetics RC 4848RR	3.8	1.0	1.0	18.3	6.9	10-28
Croplan Genetics RC 4464	3.8	1.0	1.0	13.0	5.6	9-30
Croplan Genetics RC 4842	1.0	1.0	1.0	13.0	8.1	10-4
Maturity Group V						
ESXVT-41RR	15.8	1.0	1.0	26.0	5.3	10-21
Croplan Genetics RC 5555	14.0	1.0	1.0	18.8	5.4	10-3
Deltapine DP 5414RR	10.4	1.5	1.3	18.3	6.3	10-17
ESXVT-34RR	8.9	1.3	1.0	22.7	6.6	10-22
Croplan Genetics RC 5222	8.7	1.5	1.0	15.5	5.3	9-29
Pioneer 95M80	7.5	1.0	1.0	16.5	6.1	10-6
Hutcheson	6.9	1.3	1.3	13.3	6.1	10-3
ESXVT-46RR	6.7	1.3	1.0	18.8	6.9	10-19
ESXVT-19RR	6.4	1.0	1.0	16.3	7.5	10-4
Croplan Genetics RC 5892	5.5	1.0	1.3	16.0	7.3	10-15
Anand	5.1	1.0	1.0	11.3	7.1	10-5
Ozark	5.0	1.0	1.3	14.3	6.9	10-10
Deltapine DPX5808RR	4.7	1.5	1.0	18.0	7.6	10-18
Deltapine DP 5634RR	4.7	1.0	1.0	17.3	6.9	10-10
Croplan Genetics RC 5003	4.0	1.3	1.3	14.7	6.8	10-6
Dyna-Gro SX04557	1.6	1.0	1.0	14.0	8.1	10-11
ES Ranger RR	1.4	2.0	1.0	13.0	7.3	10-11
Lonoke	1.2	1.0	1.0	12.5	8.6	10-18
R97-1634	0.7	1.0	1.0	12.0	7.8	10-16
Croplan Genetics RC 5972	0.7	1.0	1.0	12.5	8.4	10-4
Dyna-Gro SX04159	0.0	1.0	1.0	10.0	7.6	11-1
Deltapine DP 5915RR	0.0	1.0	1.0	12.0	8.0	10-28
Maturity Group VI						
Desha	13.0	1.0	1.0	18.5	6.0	10-8
Musen	11.8	1.5	1.0	21.3	6.4	10-8
Asgrow AG 6202	11.7	1.0	1.0	19.0	6.0	10-6
Deltapine DP 6880 RR	10.3	1.0	1.0	23.5	5.8	10-6
Croplan Genetics RC 6767	7.7	1.0	1.0	16.0	7.0	10-13
Asgrow AG 67-02	6.3	1.0	1.0	19.5	6.8	10-16
Deltapine DP 6215RR	6.1	1.3	1.0	20.0	6.6	10-6
Au AX 416	4.4	1.0	1.0	20.3	8.0	11-1
Pioneer 96M20	2.2	1.0	1.3	14.8	7.3	10-14
Dekalb DKB 64-51	1.8	1.0	1.0	13.0	7.6	10-13

*continued*

† Iron chlorosis was rated on July 14, 2004 on a scale of 1 = no chlorosis to 10 = plants losing leaves due to necrotic spots in leaves.

TABLE 8. CONTINUED

Brand-Variety	Yield	Lodging score	Shattering score	Plant height	Iron Chlorosis†	Maturity date
	- bu/acre -			- inches -		
Maturity Group VII						
Dyna-Gro 33Z74	7.9	1.3	1.0	19.0	5.8	10-19
Dyna-Gro 34J71	7.2	1.5	1.0	16.3	5.9	10-9
Deltapine DP 7870RR	4.4	1.0	1.0	18.8	6.8	10-26
Croplan Genetics RC 7402	4.3	1.0	1.0	16.7	6.8	10-23
Stonewall	3.9	1.0	1.0	16.0	6.6	10-17
Deltapine DP 7220RR	1.0	1.0	1.0	18.0	8.8	10-28
Dyna-Gro SX04370	0.0	.	.	.	8.0	
<b>Trial mean</b>	5.5	1.1	1.0	16.4	6.9	
<b>LSD(0.10)</b>	9	1	0	5		
<b>CV (%)</b>	96	27	22	18		

† Iron chlorosis was rated on July 14, 2004 on a scale of 1 = no chlorosis to 10 = plants losing leaves due to necrotic spots in leaves.

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**TABLE 9. PERFORMANCE OF SOYBEAN VARIETIES ON VAIDEN SOIL,  
MARION JUNCTION, ALABAMA, 2004**

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A good stand was not established in the initial seeding followed by wet conditions that prevented replanting.

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**TABLE 10. PERFORMANCE OF EARLY SOYBEAN VARIETIES AT BREWTON, ALABAMA, 2004**

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Trial destroyed by hurricane Ivan.

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**TABLE 11. PERFORMANCE OF SOYBEAN VARIETIES AT BREWTON, ALABAMA, 2004**

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Trial destroyed by hurricane Ivan.

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**TABLE 12. PERFORMANCE OF SOYBEAN VARIETIES AT BREWTON, ALABAMA,  
THREE-YEAR SUMMARY, 2002-2004**

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See comments for Table10.

TABLE 13. PERFORMANCE OF SOYBEAN VARIETIES AT FAIRHOPE, ALABAMA, 2004

Variety	Yield - bu/acre -	Lodging score	Shattering score	Plant height - inches -	Maturity date
Maturity Group IV					
R98-1817	57.3	.	1.3	25	10-4
Maturity Group V					
Pioneer 95B97	60.2	.	1.5	27	10-8
Anand	58.3	.	1.0	27	10-7
R97-1634	58.3	.	1.0	32	10-7
Ozark	56.6	.	1.0	33	10-4
Croplan Genetics RC 5972	55.1	.	1.5	30	10-8
Lonoke	55.0	.	1.0	32	10-8
Deltapine DP 5414RR	53.5	.	1.0	39	10-4
Pioneer 95M80	53.2	.	1.0	32	10-7
Deltapine DP 5915RR	53.0	.	1.3	37	10-8
Croplan Genetics RC 5892	52.6	.	1.0	42	10-11
Deltapine DP 5634RR	52.1	.	1.0	40	10-6
Hutcheson	51.5	.	1.0	27	10-4
Asgrow AG 5903	51.3	.	1.0	35	10-7
Croplan Genetics RC 5555	50.7	.	1.0	39	10-5
Deltapine DPX5808RR	46.6	.	1.0	33	10-6
Maturity Group VI					
Garst 6333RR/N	55.7	.	1.0	35	10-8
Pioneer 96M20	55.2	.	1.0	31	10-7
Garst 6112RR/N	51.2	.	1.3	41	10-12
Musen	49.4	.	1.0	33	10-18
Deltapine DP 6880 RR	48.4	.	1.0	38	10-15
Deltapine DP 6215RR	47.4	.	1.0	36	10-10
Desha	44.4	.	1.0	38	10-15
Croplan Genetics RC 6767	40.9	.	1.3	35	10-11
Au AX 416	39.7	.	1.0	45	10-19
Maturity Group VII					
G03-G1126	52.3	.	1.0	40	10-17
Dyna-Gro 34J71	51.0	.	1.0	29	10-19
Deltapine DP 7870RR	50.1	.	1.0	42	10-19
Pioneer 97B52	49.2	.	1.0	39	10-18
Dyna-Gro 33Z74	48.9	.	1.0	50	10-19
Asgrow AG 7601	47.3	.	1.0	43	10-21
Hartz H 7242RR	46.9	.	1.0	36	10-17
Croplan Genetics RC 7402	46.3	.	1.3	47	10-19
Stonewall	45.6	.	1.0	36	10-16
Deltapine DP 7220RR	44.8	.	1.0	39	10-18
Dyna-Gro SX04370	44.7	.	1.0	51	10-18
Maturity Group VIII					
Kuell	50.2	.	1.3	42	10-22
G03-G113169	47.7	.	1.0	39	10-21
<b>Trial mean</b>	50.6	.	1.1	37	
<b>LSD(0.10)</b>	6.3		0.4	5	
<b>CV (%)</b>	7		22	9	

TABLE 14. PERFORMANCE OF SOYBEAN VARIETIES AT FAIRHOPE, ALABAMA,  
THREE-YEAR SUMMARY, 2002-2004

Variety	Yield			Lodging score	Shattering score	Plant height - inch -	Maturity date
	2003	2-yr avg	3-yr avg				
	----- bu/acre -----						
Maturity Group V							
R98-1817	57	.	.	.	1	25	10-5
Maturity Group V							
Pioneer 95B97	60	62	54	1	2	28	10-9
Deltapine DP 5915RR	53	56	53	2	1	33	10-10
Hutcheson	52	55	47	1	2	28	10-3
Deltapine DP 5414RR	53	55	.	3	1	38	10-8
Deltapine DP 5634RR	52	54	.	2	1	37	10-8
Anand	58	.	.	.	1	27	10-8
R97-1634	58	.	.	.	1	32	10-8
Ozark	57	.	.	.	1	33	10-5
Croplan Genetics RC 5972	55	.	.	.	2	30	10-9
Lonoke	55	.	.	.	1	32	10-9
Pioneer 95M80	53	.	.	.	1	32	10-8
Croplan Genetics RC 5892	53	.	.	.	2	38	10-9
Asgrow AG 5903	51	.	.	.	1	35	10-8
Croplan Genetics RC 5555	51	.	.	.	1	39	10-6
Deltapine DPX5808RR	47	.	.	.	1	33	10-7
Maturity Group VI							
Garst 6112RR/N	51	56	50	2	2	37	10-10
Deltapine DP 6880 RR	48	52	48	2	1	36	10-15
Musen	49	55	48	1	2	32	10-18
Garst 6333RR/N	56	.	.	.	1	35	10-9
Pioneer 96M20	55	.	.	.	1	31	10-8
Deltapine DP 6215RR	47	.	.	.	1	36	10-11
Desha	44	.	.	.	1	38	10-16
Croplan Genetics RC 6767	41	.	.	.	2	33	10-10
Au AX 416	40	.	.	.	1	45	10-20
Maturity Group VII							
Pioneer 97B52	49	51	48	3	1	35	10-18
Stonewall	46	52	47	2	1	34	10-17
Deltapine DP 7220RR	45	49	46	2	2	37	10-18
Deltapine DP 7870RR	50	57	.	2	1	40	10-20
Dyna-Gro 34J71	51	56	.	1	1	28	10-21
Dyna-Gro 33Z74	49	51	.	2	1	44	10-20
G03-G1126	52	.	.	.	1	40	10-18
Asgrow AG 7601	47	.	.	.	1	43	10-22
Hartz H 7242RR	47	.	.	.	1	36	10-18
Croplan Genetics RC 7402	46	.	.	.	1	47	10-20
Dyna-Gro SX04370	45	.	.	.	1	51	10-19
Maturity Group VIII							
Kuell	50	56	55	3	2	36	10-25
G03-G113169	48	.	.	.	1	39	10-22
<b>Trial mean</b>	51	55	50	2	1	36	
<b>LSD(0.10)</b>	6	5	4				
<b>CV (%)</b>	7	6	5				

TABLE 15. CULTURAL PRACTICES FOR SOYBEAN VARIETY TESTS IN 2004

Location	Type of test	Date planted	Row width - inches -	Herbicide used	Fertilizer applied
Belle Mina	Group IV	April 28	7	Treflan	none recommended
	Standard	May 19	30	Treflan	none recommended
Crossville	Standard	May 17	30	Dual	none recommended
Prattville	Standard	May 21	30	Prowl	none recommended
Shorter	Standard	May 26	30	Dual	none recommended
Marion Junction	Standard (Sumter)	June 17	36	Scepter	none recommended
	Standard (Vaiden)	June 17 <sup>†</sup>	36	Scepter	Not harvested
Brewton	Early	trial lost due to hurricane Ivan			
	Standard	trial lost due to hurricane Ivan			
Fairhope	Standard	June 17	38	none soil applied	185 lb. 0-21-21/acre

<sup>†</sup> This trial was lost due to excess moisture. Not replanted - too late in season.

TABLE 16. SOIL TYPES FOR SOYBEAN TESTS, 2004

Location	Soil Type
Belle Mina	Emory silt loam
Crossville	Wynnvilleville fine sandy loam
Prattville	Lucedale fine sandy loam
Shorter	Cowarts loamy sand
Marion Junction	Vaiden clay
Marion Junction	Sumter clay (high pH soil)
Brewton	Benndale fine sandy loam
Fairhope	Malbis fine sandy loam

TABLE 17. RAINFALL AT TEST LOCATIONS DURING GROWING SEASON, 2004

Month	Days	Belle		Marion			Brewton	Fairhope
		Mina	Crossville	Shorter	Prattville	Junction		
----- inches -----								
May	1-5	0.53	2.52	0.81	1.95	1.88	0.59	1.57
	6-10	0.00	0.00	0.00	0.00	0.40	0.00	0.00
	11-15	1.10	0.32	0.84	1.07	0.46	0.65	0.31
	16-20	0.22	0.54	1.79	1.50	0.05	2.36	0.12
	21-25	0.00	0.10	0.52	0.45	0.88	0.13	0.00
	26-31	1.35	2.01	0.00	0.20	1.67	0.53	0.03
June	1-5	0.00	0.02	1.12	0.65	1.06	6.61	3.29
	6-10	0.13	0.19	0.15	0.95	0.26	0.79	1.41
	11-15	0.22	0.58	2.48	3.66	0.27	1.78	2.07
	16-20	1.34	1.29	0.99	0.49	0.35	1.15	0.36
	21-25	2.22	2.76	1.87	2.37	2.13	2.27	2.60
	26-31	1.20	2.50	0.75	0.63	1.20	2.00	1.07
July	1-5	1.66	1.44	0.47	0.51	0.00	1.10	0.59
	6-10	0.76	1.82	0.63	0.85	0.57	0.75	0.47
	11-15	1.01	0.25	0.02	0.41	0.15	0.42	2.08
	16-20	0.00	0.20	0.45	0.11	0.60	2.05	1.15
	21-25	0.00	0.00	0.00	0.00	0.02	0.00	0.00
	26-31	4.37	1.15	0.84	0.07	0.55	0.59	0.44
August	1-5	0.61	0.00	0.10	0.22	0.00	0.07	0.47
	6-10	0.00	0.08	0.11	0.21	0.22	1.01	1.58
	11-15	0.49	0.53	2.04	2.39	0.23	2.01	3.76
	16-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	21-25	1.12	1.93	1.52	1.61	2.92	1.70	2.37
	26-31	0.75	1.43	1.26	1.27	0.77	0.50	0.10
September	1-5	0.62	0.52	1.81	0.03	0.25	0.20	3.17
	6-10	0.02	1.23	1.00	0.83	0.20	0.09	0.00
	11-15	0.02	0.26	0.00	0.15	0.15	0.07	2.60
	16-20	2.79	6.53	3.57	4.97	6.47	8.26	6.86
	21-25	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
October	1-5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6-10	0.07	0.15	0.00	0.07	0.00	0.32	0.75
	11-15	0.56	0.70	0.43	0.15	0.58	0.75	1.27
	16-20	2.74	3.46	0.72	0.47	0.76	3.03	0.00
	21-25	0.22	0.48	0.88	1.28	1.49	0.68	0.41
	26-31	0.43	0.06	0.05	0.00	0.00	0.28	0.01



TABLE 18. ENTRIES AND SOURCES OF SEED FOR SOYBEAN TESTS, 2004

Source	Entry
Alabama Crop Imp. Assoc. Auburn, Alabama	Hutcheson, Stonewall, Kuell,
Croplan Genetics Midland City, Alabama	Croplan Genetics brand varieties
Delta and Pine Land Company Scott, Mississippi	Deltapine brand varieties
Department of Agronomy & Soils Auburn University, Alabama	Au AX 416
Delta King Seed Co. McCrory, Arkansas	Delta King brand varieties
Eagle Seed Co. Weiner, Arkansas	ES brand varieties
Garst Seed Co. Cordova, Tennessee	Garst brand varieties
Monsanto Dekalb, Illinois	Asgrow, Dekalb, and Hartz brand varieties
Pioneer, A DuPont Company Huntsville, Alabama	Pioneer brand varieties
Progeny Ag Products Wynne, Arkansas	Progeny brand varieties
South Carolina Foundation Seed Association Clemson, South Carolina	Musen
Southern States Coop. Richmond, Virginia	SS RT brand varieties
UniSouth Genetics, Inc. Nashville, Tennessee	USG brand varieties
United Agri-Products Madison, Alabama	Dyna-Gro brand varieties
University of Arkansas Fayetteville, Arkansas	Desha, Lonoke, Ozark, R97-1634, R98-1817
University of Georgia Athens, Georgia	G03-G1126, G03-G113169
University of Missouri Columbia, Missouri	Anand