



February 1997  
Agronomy and Soils Departmental Series No. 202  
Alabama Agricultural Experiment Station  
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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, 1996

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## 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:

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

## EXPERIMENTAL PROCEDURES

The standard tests were designed as a randomized complete block with four replications. Plot size was four 24- 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 date test 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.

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Lodging was scored on a scale of one to five 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 one to five based on performance of the border row 14 days after maturity. A rating of one indicates no shattering, a rating of three indicates a four to eight percent shattering, and a rating of five 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 reached mature pod color. Harvest was approximately seven to 10 days later.

### **SEASONAL CONDITIONS**

Rainfall (Table 3) in April and May 1994 was such that planting dates for the standard tests in northern Alabama and Marion Junction and Prattville in central Alabama were delayed. In 1995, all standard tests were planted at normal planting dates. In 1996, rainfall delayed all planting dates but yields were good for all tests. The normal planting dates for full season plantings in the regular tests are the first week in May, May 15-25, and May 25 to June 5 for northern, central, and southern Alabama locations, respectively.

### **COMPARING VARIETIES**

To aid in determining 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 1995 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 the 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 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 station 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 Substation, Belle Mina . . . . .	B.E. Norris, Acting Superintendent H.E. Burgess
Sand Mountain Substation, Crossville . . . . .	M.E. Ruf, Acting Superintendent
Prattville Experiment Field, Prattville . . . . .	D.P. Moore, Superintendent
E.V. Smith Research Center . . . . .	J.S. Bannon, Director
Field Crops Research Unit, Shorter . . . . .	D.R. Williamson, Superintendent
Black Belt Substation, Marion Junction . . . . .	J.L. Holliman, Superintendent J.R. Harris
Monroeville Experiment Field, Monroeville . . . . .	J.R. Akridge, Superintendent
Brewton Experiment Field, Brewton . . . . .	J.R. Akridge, Superintendent
Gulf Coast Substation, Fairhope . . . . .	E.L. Carden, Superintendent N.R. McDaniel, M.D. Pegues

Appreciation is also expressed to Mien-Huei Tzeng, Applied Statistics Consulting Lab, Discrete and Statistical Sciences, for the computation and analysis of the data in this report.

Table 1. Entries and Sources for 1996

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Alabama Crop Imp. Assoc. Auburn, Alabama	Carver Essex Hutcheson Stonewall Young
Delta and Pine Land Company Scott, Mississippi	Deltapine brand varieties
Department of Agronomy and Soils Auburn University, Alabama	Au90-585 Au91-1970
Escambia Farm and Seed Co. Atmore, Alabama	Braxton Centennial Thomas
Georgia Seed Development Commission Athens, Georgia	Bryan Cook Doles Haskell
Hy Performer Seed Company Memphis, Tennessee	Hy Performer brand varieties HSC, HY
Jacob Hartz Seed Company, Inc. Stuttgart, Arkansas	Hartz brand varieties RR - designates Roundup Ready
Northrup King Co. Highland, Illinois	S57-11 S59-60 S62-62 S62-66 S65-50 S67-70 S75-55
North Carolina State University Raleigh, North Carolina	Brim Clifford Holladay

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(Continued on following page)



Table 1 (continued). Entries and Sources for 1996

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Pioneer Hi-Bred International, Inc. Huntsville, Alabama	Pioneer brand varieties
South Carolina Crop Impr. Assoc. Clemson, South Carolina	Dillon Hagood Maxcy SC 89-181
Terra International, Inc. Memphis, Tennessee	Riverside brand varieties
United Agri-Products Athens, Alabama	Dyna-Gro brand varieties
University of Florida Quincy, Florida	F91-1419 F91-1577 F91-2161 F91-2420 F91-2421 F91-3076 F91-3578
University of Tennessee Knoxville, Tennessee	TN 4-86 TN 4-94

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Table 2. Cultural Practices for Soybean Variety Tests in 1996

Location	Type test	Date planted	Row width	Herbicide used	Fertilizer applied
Belle Mina . . . . .	Standard	May 31	30	Treflan, Scepter	none recommended
	Preliminary	May 31	30	Treflan, Scepter	none recommended
Crossville . . . . .	Standard	June 4	30	Scepter, Dual	100 lb. 5-10-15/acre + 40 lb. 0-0-60/acre
Prattville . . . . .	Standard	June 3	30	Prowl, Gramoxone	none recommended
	Preliminary	June 3	30	Prowl, Gramoxone	none recommended
Shorter . . . . .	Standard	June 3	30	Treflan	none recommended
Marion Junction	Standard (Sumter)	June 5	36	Prowl, Blazer/ Poast Plus	200 lb. 0-26-26/acre
	Standard (Vaiden)	June 17	36	Prowl, Scepter	none recommended
Brewton . . . . .	Early	May 8	36	Dual	500 lb. 5-10-15/acre
	Standard	June 25	36	Dual	none recommended
Monroeville . . . . .	Preliminary	June 19	36	Dual, Lexone	300 lb. 0-20-20/acre
Fairhope . . . . .	Standard	June 12	30	Dual, Lorox	165 lb. 0-24-24/acre

Table 3. Rainfall at Test Locations During Growing Season, 1996

Month	Days	Belle Mina	Crossville	Shorter	Prattville	Marion Junction	Brewton	Monroeville	Fairhope
		In.	In.	In.	In.	In.	In.	In.	In.
May	1-5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6-10	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	11-15	0.16	0.34	0.44	0.82	0.20	0.00	0.00	0.03
	16-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	21-25	0.03	1.07	1.63	0.73	0.40	0.31	0.15	0.00
	26-31	<u>1.41</u>	<u>1.43</u>	<u>2.35</u>	<u>3.56</u>	<u>2.15</u>	<u>1.31</u>	<u>2.43</u>	<u>0.45</u>
		1.65	2.84	4.42	5.11	2.75	1.62	2.58	0.48
June	1-5	0.77	0.36	0.00	0.24	0.38	1.09	0.00	0.00
	6-10	1.33	1.37	0.56	2.41	3.42	3.37	0.92	2.72
	11-15	0.93	0.14	1.76	0.60	0.10	2.16	1.57	0.29
	16-20	0.22	0.41	0.00	0.00	2.10	0.80	0.07	3.13
	21-25	0.07	0.00	0.00	0.05	0.38	0.49	0.00	1.08
	26-30	<u>0.00</u>	<u>0.00</u>	<u>0.05</u>	<u>0.00</u>	<u>0.00</u>	<u>0.08</u>	<u>1.52</u>	<u>0.20</u>
		3.32	2.28	2.37	3.30	6.38	7.99	4.08	7.42
July	1-5	0.00	0.10	0.00	0.00	0.19	0.00	0.00	0.00
	6-10	1.68	1.94	5.24	3.48	2.98	1.15	0.42	2.18
	11-15	0.54	0.43	0.30	0.44	0.57	2.12	1.65	0.18
	16-20	0.00	0.00	1.10	0.60	0.59	1.79	0.10	3.15
	21-25	1.37	0.42	0.41	1.80	1.20	0.24	1.48	0.86
	26-31	<u>0.69</u>	<u>2.74</u>	<u>1.81</u>	<u>1.72</u>	<u>2.74</u>	<u>3.75</u>	<u>1.08</u>	<u>0.18</u>
		4.28	5.63	8.86	8.04	8.27	9.05	4.73	6.55
August	1-5	1.15	1.27	0.45	0.14	0.62	0.54	0.44	2.28
	6-10	0.22	0.33	4.23	3.38	0.16	2.39	0.01	0.67
	11-15	1.37	0.73	0.17	0.72	0.36	1.61	0.40	0.36
	16-20	0.00	0.15	0.00	0.12	0.12	0.00	0.00	1.86
	21-25	0.85	0.63	0.11	0.04	0.00	1.34	0.07	0.03
	26-31	<u>1.13</u>	<u>3.52</u>	<u>1.44</u>	<u>2.94</u>	<u>2.00</u>	<u>6.08</u>	<u>4.59</u>	<u>0.79</u>
		4.72	6.63	6.40	7.34	3.26	11.96	5.51	5.99
September	1-5	2.37	1.05	4.48	2.11	0.59	0.76	0.46	2.35
	6-10	0.66	0.11	0.05	0.12	0.95	1.00	1.23	0.00
	11-15	0.72	0.00	0.00	0.00	0.01	0.00	0.30	0.09
	16-20	1.48	2.07	1.59	2.18	1.37	1.45	0.23	1.48
	21-25	1.01	1.13	0.22	1.17	0.02	0.20	0.29	1.66
	26-30	<u>1.83</u>	<u>1.91</u>	<u>1.06</u>	<u>1.80</u>	<u>1.45</u>	<u>2.00</u>	<u>4.65</u>	<u>2.14</u>
		8.07	6.27	7.40	7.38	4.39	5.41	7.16	7.72
October	1-5	0.25	0.08	0.22	0.24	0.16	0.14	0.02	0.88
	6-10	0.00	0.00	0.27	0.09	0.07	0.70	0.05	0.77
	11-15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	16-20	0.42	0.46	0.48	0.29	0.10	0.18	0.23	0.35
	21-25	0.73	0.49	0.26	0.23	0.44	0.26	0.56	0.07
	26-31	<u>1.16</u>	<u>0.54</u>	<u>0.00</u>	<u>0.18</u>	<u>1.88</u>	<u>0.00</u>	<u>0.09</u>	<u>0.86</u>
		2.56	1.57	1.23	1.03	2.65	1.28	0.95	2.93

Table 4. Soil Types for Soybean Tests, 1996

Test Location	Soil Type
Belle Mina .....	Emory silt loam
Crossville .....	Wynnvile 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 5. Performance of Soybean Varieties in Northern Alabama, 1996

Brand-variety	Yield Per Acre		Regional Average			Maturity Date
	Belle Mina <i>Bu.</i>	Crossville <i>Bu.</i>	Lodging <i>Score</i>	Shattering <i>Score</i>	Plant Height <i>In.</i>	
<b>Maturity Group IV</b>						
Deltapine DPX 3480 .....	50.3	39.8	1.8	1.0	36	9-29
Deltapine DPX 3497 .....	45.3	43.2	2.1	1.0	42	9-30
Riverside 499 .....	44.7	36.3	1.9	1.0	43	9-28
TN 4-94 .....	44.6	42.5	1.4	1.0	39	9-28
Dyna-Gro 3495 .....	42.7	35.8	2.1	1.0	42	10-2
F 91-3076 .....	41.5	36.3	1.6	1.0	35	10-2
TN 4-86 .....	40.0	38.4	1.6	1.0	40	9-23
<b>Maturity Group V</b>						
Northrup King S57-11 .....	57.9	44.5	1.3	1.0	35	10-5
Pioneer 9584 .....	57.8	47.2	1.4	1.0	34	10-5
Riverside Robin-5 .....	57.7	44.2	1.6	1.0	29	10-9
Pioneer 9594 .....	56.5	37.5	1.5	1.0	33	10-11
Hy Performer HY574 .....	56.4	39.3	1.6	1.0	34	10-6
Hutcheson .....	55.5	35.6	1.1	1.0	28	10-4
Hartz H5050 .....	55.0	40.6	1.6	1.0	39	10-10
Holladay .....	54.9	26.7	1.0	1.0	23	9-29
Clifford .....	53.6	33.9	1.1	1.0	27	10-2
Deltapine DP 3571 .....	53.5	42.8	1.6	1.0	36	10-6
Dyna-Grow 3576 .....	52.9	36.2	1.9	1.0	29	10-4
Pioneer 9552 .....	51.8	44.2	1.3	1.1	29	10-3
Riverside 77 .....	51.3	37.0	2.1	1.0	33	10-10
Hy Performer HSC591 .....	50.9	42.1	1.9	1.0	42	10-15
Hartz H5218 .....	50.7	47.8	1.6	1.0	33	10-5
Northrup King S59-60 .....	50.2	45.4	2.1	1.0	33	10-9
Riverside 549 .....	49.6	37.3	1.5	1.0	29	10-4
Essex .....	48.9	26.0	1.0	1.0	23	9-30
Deltapine DP 3588 .....	48.8	41.5	1.6	1.0	39	10-11
Deltapine 105 .....	47.0	37.4	1.6	1.0	35	10-7
<b>Maturity Group VI</b>						
Hartz H6255 .....	60.8	41.0	1.8	1.0	36	10-16
Pioneer 9692 .....	58.1	52.8	1.6	1.0	38	10-17
Doles .....	55.2	42.3	1.4	1.1	35	10-16
Pioneer 9611 .....	55.1	40.3	1.5	1.0	37	10-12
Brim .....	54.8	30.9	1.4	1.0	37	10-12
Dyna-Gro 3682 .....	54.8	45.0	2.3	1.0	39	10-17
Pioneer 9631 .....	54.2	36.1	1.8	1.0	37	10-16
Dillon .....	54.0	41.4	1.0	1.0	36	10-14
Young .....	52.9	35.8	1.8	1.0	39	10-14
Hy Performer HY 663 .....	52.3	35.1	1.8	1.0	38	10-14
Hy Performer HSC B2J .....	52.2	50.7	1.4	1.0	37	10-12
Northrup King S62-66 .....	52.1	50.0	1.9	1.0	33	10-12
AU 90-585 .....	49.6	38.9	1.9	1.0	35	10-14
<b>Maturity Group VII</b>						
Braxton .....	52.7	38.1	1.5	1.0	42	10-19
Haskell .....	51.9	36.5	2.6	1.0	37	10-19
Carver .....	51.7	46.5	1.1	1.0	38	10-16
Stonewall .....	50.5	42.1	2.0	1.0	38	10-16
Test Means .....	51.9	40.1	1.6	1.0	35	
L.S.D. (.05) .....	6.1	8.9				
C.V. (%) .....	8.4	15.8				

Table 6. Performance of Soybean Varieties in Northern, Alabama, Three-Year Summary, 1994-96

Brand-variety	Yield Per Acre			3-Year Average			Maturity Date
	1996	2-Yr. Av.	3-Yr. Av.	Lodging	Shattering	Plant Height	
	Bu.	Bu.	Bu.	Score	Score	In.	
<b>Maturity Group IV</b>							
Dyna-Gro 3495	39.3	37.8	-	-	-	-	-
Riverside 499	40.5	37.5	-	-	-	-	-
TN 4-94	43.5	36.2	-	-	-	-	-
TN 4-86	39.2	33.1	-	-	-	-	-
Deltapine DPX 3480	45.0	-	-	-	-	-	-
Deltapine DPX 3497	44.2	-	-	-	-	-	-
F 91-3076	38.9	-	-	-	-	-	-
<b>Maturity Group V</b>							
Pioneer 9584	52.5	48.5	47.9	1.6	1.0	35	10-1
Northrup King S59-60	47.8	41.9	45.5	2.3	1.1	34	10-4
Hutcheson	45.6	45.1	44.9	1.4	1.1	31	9-30
Dyna-Gro 3576	44.6	44.2	42.9	1.8	1.1	31	10-1
Hy Performer HSC591	46.5	41.5	42.5	1.9	1.0	41	10-10
Deltapine 105	42.2	40.3	39.5	2.0	1.2	36	10-2
Holladay	40.8	42.1	38.6	1.1	1.2	26	9-27
Essex	37.5	39.3	37.3	1.2	1.1	27	9-27
Hy Performer HY574	47.8	45.7	-	-	-	-	-
Northrup King S57-11	51.2	43.8	-	-	-	-	-
Riverside 549	43.5	42.2	-	-	-	-	-
Clifford	43.7	41.3	-	-	-	-	-
Riverside Robin-5	51.0	-	-	-	-	-	-
Hartz H5218	49.3	-	-	-	-	-	-
Deltapine DP 3571	48.2	-	-	-	-	-	-
Pioneer 9552	48.0	-	-	-	-	-	-
Hartz H5050	47.8	-	-	-	-	-	-
Pioneer 9594	47.0	-	-	-	-	-	-
Deltapine DP 3588	45.2	-	-	-	-	-	-
Riverside 77	44.2	-	-	-	-	-	-
<b>Maturity Group VI</b>							
Northrup King S62-66	51.1	47.0	48.1	2.3	1.2	35	10-9
Pioneer 9692	55.4	48.2	46.7	1.4	1.0	38	10-17
Doles	48.7	46.1	44.1	1.8	1.1	36	10-14
Dyna-Gro 3682	49.9	43.2	43.3	2.3	1.0	39	10-17
Hy Performer HSC B2J	51.5	44.1	42.7	1.8	1.0	40	10-8
Brim	42.9	44.9	40.5	1.5	1.0	38	10-9
Young	44.4	42.7	38.6	2.0	1.1	40	10-10
Hartz H6255	50.9	48.9	-	-	-	-	-
Dillon	47.7	47.9	-	-	-	-	-
Pioneer 9611	47.7	44.4	-	-	-	-	-
Pioneer 9631	45.2	-	-	-	-	-	-
AU 90-585	44.2	-	-	-	-	-	-
Hy Performer HY 663	43.7	-	-	-	-	-	-
<b>Maturity Group VII</b>							
Carver	49.1	41.8	41.6	1.5	1.0	38	10-15
Stonewall	46.3	43.8	41.6	1.8	1.0	39	10-16
Haskell	44.2	39.3	36.0	2.3	1.0	39	10-20
Braxton	45.4	38.2	33.6	1.6	1.0	42	10-20
Test Means	46.0	42.7	41.9	1.8	1.1	36	
L.S.D. (.05)	7.6						
C.V. (%)	11.8						

The planting date for 1-year, 2-year, and 3-year averages was June 2, May 12, and May 12, respectively.

Table 7. Performance of Soybean Varieties at Prattville, Alabama, 1996

Brand-variety	Yield Per Acre	Average			Maturity Date
		Lodging	Shattering	Plant Height	
	<i>Bu.</i>	<i>Score</i>	<i>Score</i>	<i>In.</i>	
<b>Maturity Group V</b>					
Hy Performer HSC591 .....	45.7	1.0	1.0	26	10-14
Clifford .....	45.2	1.0	2.0	17	10-2
Deltapine 105 .....	40.5	1.0	1.0	20	10-5
Deltapine DP 3588 .....	40.1	1.0	1.3	26	10-8
Deltapine DP 3571 .....	39.1	1.0	2.0	30	10-3
Hy Performer HY574 .....	35.1	1.0	1.0	19	10-10
Hutcheson .....	33.2	1.0	1.0	16	10-6
Deltapine DP 3519 .....	32.3	1.0	1.3	15	9-30
Holladay .....	29.4	1.0	2.5	15	10-2
<b>Maturity Group VI</b>					
Deltapine DPX 3640 .....	56.5	1.0	1.0	26	10-15
Pioneer 9692 .....	54.4	1.0	1.0	27	10-15
Deltapine DPX 3681 .....	54.1	1.0	1.0	25	10-15
Pioneer 9631 .....	52.6	1.0	1.0	23	10-13
Young .....	49.5	1.0	1.3	26	10-12
Brim .....	47.9	1.0	2.3	24	10-12
Hartz H6255 .....	43.5	1.0	1.0	21	10-15
Bryan .....	43.1	1.0	1.0	25	10-15
Pioneer 9611 .....	41.9	1.0	1.3	21	10-5
Dillon .....	38.5	1.0	1.3	23	10-13
Deltapine DP3627 .....	36.8	1.0	1.0	22	10-13
AU 90-585 .....	31.4	1.0	1.8	20	10-12
<b>Maturity Group VII</b>					
Carver .....	51.9	1.0	1.0	24	10-10
Pioneer 9761 .....	51.2	1.0	1.0	30	10-20
Deltapine 3733 .....	46.9	1.0	1.0	27	10-17
Stonewall .....	45.6	1.0	1.0	25	10-19
Thomas .....	44.8	1.0	1.0	25	10-20
Haskell .....	39.7	2.0	1.0	27	11-4
Test Means .....	43.4	1.0	1.3	23	
L.S.D. (.05) .....	6.7				
C.V. (%) .....	11.1				

Table 8. Performance of Soybean Varieties at Prattville, Alabama,  
Three-Year Summary, 1994-96

Brand-variety	Yield Per Acre			3-Year Average			
	1996 <i>Bu.</i>	2-Yr. Av. <i>Bu.</i>	3-Yr. Av. <i>Bu.</i>	Lodging <i>Score</i>	Shattering <i>Score</i>	Plant Height <i>In.</i>	Maturity Date
<b>Maturity Group V</b>							
Hy Performer HSC591 .	45.7	35.2	35.5	1.0	1.0	28	10-14
Deltapine 105 . . . . .	40.5	31.4	33.4	1.0	1.0	24	10-5
Hutcheson . . . . .	33.2	26.9	31.9	1.0	1.0	20	10-6
Holladay . . . . .	29.4	26.3	29.9	1.0	1.7	19	9-28
Clifford . . . . .	45.2	32.0	-	-	-	-	-
Deltapine DP 3588 . . . .	40.1	30.7	-	-	-	-	-
Hy Performer HY574 . . .	35.1	27.1	-	-	-	-	-
Deltapine DP 3571 . . . .	39.1	-	-	-	-	-	-
Deltapine DP 3519 . . . .	32.3	-	-	-	-	-	-
<b>Maturity Group VI</b>							
Brim . . . . .	47.9	37.1	41.5	1.0	1.4	29	10-16
Young . . . . .	49.5	38.6	39.9	1.0	1.1	28	10-14
Pioneer 9692 . . . . .	54.4	41.1	39.3	1.0	1.0	28	10-20
Deltapine DP3627 . . . .	36.8	29.4	33.5	1.0	1.0	24	10-15
Bryan . . . . .	43.1	32.2	31.1	1.0	1.0	27	10-20
Pioneer 9611 . . . . .	41.9	34.4	-	-	-	-	-
Dillon . . . . .	38.5	32.0	-	-	-	-	-
Deltapine DPX 3640 . . .	56.5	-	-	-	-	-	-
Deltapine DPX 3681 . . .	54.1	-	-	-	-	-	-
Pioneer 9631 . . . . .	52.6	-	-	-	-	-	-
Hartz H6255 . . . . .	43.5	-	-	-	-	-	-
AU 90-585 . . . . .	31.4	-	-	-	-	-	-
<b>Maturity Group VII</b>							
Pioneer 9761 . . . . .	51.2	38.4	37.0	1.0	1.0	30	10-25
Stonewall . . . . .	45.6	34.8	35.0	1.0	1.0	26	10-23
Haskell . . . . .	39.7	32.1	34.5	1.5	1.0	30	10-28
Carver . . . . .	51.9	38.7	33.7	1.0	1.0	27	10-19
Thomas . . . . .	44.8	34.2	31.3	1.0	1.0	27	10-24
Deltapine 3733 . . . . .	46.9	34.7	-	-	-	-	-
Test Means . . . . .	43.4	33.4	34.8	1.0	1.1	26	
L.S.D. (.05) . . . . .	6.7						
C.V. (%) . . . . .	11.1						

The planting date for 1-year, 2-year, and 3-year average was June 3, May 31, and May 30, respectively.



Table 9. Performance of Soybean Varieties on Sumter Soil, Marion Junction, Alabama, 1996

Brand-variety	Yield	Lodging	Shattering	Average	Chlorosis	Maturity Date
	Per Acre	Score	Score	Plant Height	Rate*	
	<i>Bu.</i>	<i>Score</i>	<i>Score</i>	<i>In.</i>	<i>Rating</i>	
<b>Maturity Group V</b>						
Northrup King S59-60 . . .	34.8	1.3	1.8	24	1.50	10-8
Hy Performer HY574 . . . .	33.4	1.0	1.3	22	2.00	10-9
Deltapine 105 . . . . .	29.2	1.3	1.3	29	-	10-4
Hartz H5050 . . . . .	28.2	1.0	1.5	23	2.75	10-4
Deltapine DP 3519 . . . . .	25.4	1.0	1.3	21	3.25	9-30
Hy Performer HSC591 . . .	20.7	1.0	1.0	23	5.25	10-16
Deltapine DP 3588 . . . . .	19.7	1.0	1.3	20	3.50	10-15
Dyna-Grow 3542 . . . . .	13.1	1.0	1.0	19	5.00	10-15
Deltapine DP 3571 . . . . .	3.6	1.0	1.0	15	9.00	10-18
<b>Maturity Group VI</b>						
Deltapine DPX 3640 . . . .	36.4	2.0	1.0	30	1.75	10-16
Hy Performer HY 663 . . .	36.4	2.0	1.0	30	1.00	10-13
Hartz H6104 . . . . .	36.3	1.0	1.3	25	1.75	10-8
Hartz H6191 . . . . .	36.1	1.0	1.0	20	1.50	10-16
Young . . . . .	30.5	1.3	2.8	28	2.00	10-12
Dillon . . . . .	30.2	1.0	1.5	25	2.00	10-15
Deltapine DP3627 . . . . .	29.9	1.0	1.0	25	2.50	10-11
Centennial . . . . .	29.1	1.5	1.0	27	3.25	10-17
Pioneer 9692 . . . . .	28.2	1.0	1.0	20	2.25	10-15
Deltapine DPX 3681 . . . .	26.4	1.0	1.0	23	3.00	10-16
Pioneer 9611 . . . . .	26.0	1.3	1.5	24	2.75	10-12
Pioneer 9631 . . . . .	25.1	1.3	1.0	22	3.25	10-19
AU 90-585 . . . . .	22.8	1.0	1.8	20	4.50	10-14
Dyna-Gro 3682 . . . . .	21.5	1.0	1.3	18	3.00	10-17
Brim . . . . .	13.8	1.0	2.5	18	4.25	10-10
Hartz H6062 . . . . .	11.1	1.0	1.0	18	8.00	10-18
Hartz H6255 . . . . .	9.9	1.0	1.3	18	6.50	10-15
Bryan . . . . .	4.1	1.0	1.0	15	9.00	10-19
<b>Maturity Group VII</b>						
Thomas . . . . .	42.1	1.5	1.0	30	1.00	10-16
Stonewall . . . . .	42.0	1.0	1.0	27	1.50	10-16
Pioneer 9761 . . . . .	39.6	1.3	1.0	27	1.50	10-18
Haskell . . . . .	37.2	2.5	1.0	33	1.00	10-18
Braxton . . . . .	35.2	1.0	1.0	34	1.25	10-18
Carver . . . . .	34.9	1.3	1.5	26	1.75	10-14
Deltapine 3733 . . . . .	33.0	1.0	1.0	24	1.75	10-17
Hagood . . . . .	29.3	1.8	1.0	28	2.75	10-23
Test Means . . . . .	27.3	1.2	1.2	24	3.15	
L.S.D. (.05) . . . . .	10.0					
C.V. (%) . . . . .	26.2					

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

Table 10. Performance of Soybean Varieties on Sumter Soil, Marion Junction, Alabama, Three-Year Summary, 1993, 1995 and 1996

Brand-variety	Yield Per Acre			3-Year Average			Maturity Date
	1996	2-Yr. Av.	3-Yr. Av.	Lodging	Shattering	Plant Height	
	Bu.	Bu.	Bu.	Score	Score	In.	
<b>Maturity Group V</b>							
Northrup King S59-60 .	34.8	23.2	23.0	1.1	2.2	20	10-7
Deltapine 105 . . . . .	29.2	21.1	22.9	1.1	1.8	23	10-4
Hy Performer HY574 . .	33.4	23.8	-	-	-	-	-
Deltapine DP 3588 . . . .	19.7	17.6	-	-	-	-	-
Hy Performer HSC591 . .	20.7	17.6	-	-	-	-	-
Dyna-Grow 3542 . . . . .	13.1	15.2	-	-	-	-	-
Hartz H5050 . . . . .	28.2	-	-	-	-	-	-
Deltapine DP 3519 . . . .	25.4	-	-	-	-	-	-
Deltapine DP 3571 . . . .	3.6	-	-	-	-	-	-
<b>Maturity Group VI</b>							
Young . . . . .	30.5	23.4	25.6	1.2	2.3	25	10-10
Centennial . . . . .	29.1	22.3	21.8	1.2	1.0	23	10-20
Brim . . . . .	13.8	13.8	15.5	1.0	2.4	19	10-10
Bryan . . . . .	4.1	6.7	7.7	1.0	1.0	17	10-20
Dillon . . . . .	30.2	24.4	-	-	-	-	-
Pioneer 9692 . . . . .	28.2	23.1	-	-	-	-	-
Deltapine DP3627 . . . .	29.9	23.1	-	-	-	-	-
Dyna-Gro 3682 . . . . .	21.5	21.8	-	-	-	-	-
Pioneer 9611 . . . . .	26.0	21.2	-	-	-	-	-
Hartz H6255 . . . . .	9.9	16.1	-	-	-	-	-
Hartz H6062 . . . . .	11.1	12.7	-	-	-	-	-
Deltapine DPX 3640 . . .	36.4	-	-	-	-	-	-
Hy Performer HY 663 . .	36.4	-	-	-	-	-	-
Hartz H6104 . . . . .	36.3	-	-	-	-	-	-
Hartz H6191 . . . . .	36.1	-	-	-	-	-	-
Deltapine DPX 3681 . . .	26.4	-	-	-	-	-	-
Pioneer 9631 . . . . .	25.1	-	-	-	-	-	-
AU 90-585 . . . . .	22.8	-	-	-	-	-	-
<b>Maturity Group VII</b>							
Pioneer 9761 . . . . .	39.6	32.3	30.6	1.1	1.0	25	10-20
Thomas . . . . .	42.1	30.6	29.6	1.2	1.0	24	10-19
Stonewall . . . . .	42.0	28.9	29.3	1.0	1.0	23	10-21
Haskell . . . . .	37.2	28.4	27.8	1.6	1.0	26	10-22
Braxton . . . . .	35.2	27.5	26.2	1.0	1.0	28	10-20
Carver . . . . .	34.9	24.9	24.4	1.1	1.4	22	10-18
Deltapine 3733 . . . . .	33.0	24.2	23.8	1.0	1.0	21	10-19
Hagood . . . . .	29.3	24.7	23.5	1.6	1.0	24	10-27
Test Means . . . . .	27.3	21.9	23.7	1.1	1.4	23	
L.S.D. (.05) . . . . .	10.0						
C.V. (%) . . . . .	26.2						

The planting date for 1-year, 2-year, and 3-year averages was June 5, June 5, and June 10, respectively.

Table 11. Performance of Soybean Varieties on Vaiden Soil, Marion Junction, Alabama, 1996

Brand-variety	Yield Per Acre	Average			Maturity Date
		Lodging	Shattering	Plant Height	
	Bu.	Score	Score	In.	
<b>Maturity Group V</b>					
Northrup King S59-60 .....	41.7	2.0	1.0	28	10-10
Hy Performer HY574 .....	40.4	1.0	1.0	29	10-12
Hy Performer HSC591 .....	39.8	1.0	1.0	32	10-16
Deltapine DP 3588 .....	39.5	1.0	1.0	30	10-14
Hartz H5050 .....	37.3	1.5	1.3	32	10-14
Deltapine 105 .....	36.9	1.0	1.0	29	10-10
Deltapine DP 3519 .....	32.9	1.0	1.0	24	10-4
Deltapine DP 3571 .....	30.9	1.0	1.3	26	10-4
Dyna-Grow 3542 .....	27.9	1.3	1.5	28	10-12
Clifford .....	26.9	1.0	2.8	25	10-4
Hutcheson .....	26.8	1.0	1.8	20	10-7
<b>Maturity Group VI</b>					
Hartz H6255 .....	48.2	1.3	1.0	30	10-16
Hy Performer HY 663 .....	46.5	1.0	1.0	32	10-15
Hartz H6191 .....	44.0	1.0	1.0	22	10-18
Pioneer 9631 .....	43.7	1.3	1.0	26	10-15
Pioneer 9611 .....	42.2	1.0	1.0	32	10-14
Deltapine DP3627 .....	41.2	1.0	1.0	30	10-16
Pioneer 9692 .....	40.8	1.0	1.0	26	10-17
Hartz H6062 .....	40.6	2.0	1.0	34	10-14
Deltapine DPX 3681 .....	40.5	1.0	1.0	28	10-18
Centennial .....	38.8	1.0	1.3	31	10-14
Young .....	38.6	1.0	1.8	28	10-14
Dillon 38.6 .....	38.6	1.0	1.0	27	10-16
Deltapine DPX 3640 .....	38.4	1.0	1.0	30	10-16
Dyna-Gro 3682 .....	37.4	1.0	1.0	29	10-18
Bryan .....	34.8	1.0	1.0	28	10-16
Brim .....	32.6	1.0	2.3	26	10-14
Hartz H6104 .....	31.1	1.0	1.0	24	10-14
AU 90-585 .....	-	-	-	-	-
<b>Maturity Group VII</b>					
Stonewall .....	46.4	1.3	1.0	31	10-18
Haskell .....	45.2	1.5	1.0	30	10-22
Pioneer 9761 .....	40.4	1.0	1.0	29	10-20
Hagood .....	40.4	1.0	1.0	30	10-23
Deltapine 3733 .....	39.5	1.0	1.0	27	10-18
Braxton .....	39.3	1.0	1.0	29	10-21
Carver .....	39.2	1.0	1.0	25	10-18
Thomas .....	36.0	1.0	1.0	29	10-19
Test Means .....	38.5	1.1	1.2	28	
L.S.D. (.05) .....	6.7				
C.V. (%) .....	12.4				

Table 12. Performance of Soybean Varieties on Vaiden Soil, Marion Junction, Alabama, Three-Year Summary, 1994-96

Brand-variety	Yield Per Acre			3-Year Average			Maturity Date
	1996	2-Yr. Av.	3-Yr. Av.	Lodging	Shattering	Plant Height	
	Bu.	Bu.	Bu.	Score	Score	In.	
<b>Maturity Group V</b>							
Northrup King S59-60 .	41.7	33.9	36.0	1.9	1.3	28	10-6
Hy Performer HSC591 .	39.8	30.8	34.8	1.3	1.3	33	10-12
Deltapine 105 . . . . .	36.9	29.2	33.4	1.5	1.3	31	10-6
Hutcheson . . . . .	26.8	24.2	29.7	1.0	2.0	24	10-1
Dyna-Grow 3542 . . . . .	27.9	22.1	25.9	1.8	1.5	31	10-5
Deltapine DP 3588 . . . . .	39.5	32.9	-	-	-	-	-
Hy Performer HY574 . . . . .	40.4	32.6	-	-	-	-	-
Clifford . . . . .	26.9	18.7	-	-	-	-	-
Hartz H5050 . . . . .	37.3	-	-	-	-	-	-
Deltapine DP 3519 . . . . .	32.9	-	-	-	-	-	-
Deltapine DP 3571 . . . . .	30.9	-	-	-	-	-	-
<b>Maturity Group VI</b>							
Pioneer 9692 . . . . .	40.8	37.3	40.9	1.0	1.0	30	10-17
Deltapine DP3627 . . . . .	41.2	33.4	38.1	1.3	1.3	32	10-12
Dyna-Gro 3682 . . . . .	37.4	33.0	37.7	1.3	1.0	31	10-19
Brim . . . . .	32.6	32.5	36.0	1.0	2.1	30	10-10
Centennial . . . . .	38.8	32.1	35.5	1.0	1.1	31	10-16
Bryan . . . . .	34.8	31.0	34.5	1.0	1.1	31	10-17
Young . . . . .	38.6	27.7	32.1	1.3	2.4	31	10-9
Hartz H6255 . . . . .	48.2	39.3	-	-	-	-	-
Pioneer 9611 . . . . .	42.2	34.6	-	-	-	-	-
Dillon . . . . .	38.6	32.4	-	-	-	-	-
Hy Performer HY 663 . . . . .	46.5	-	-	-	-	-	-
Hartz H6191 . . . . .	44.0	-	-	-	-	-	-
Pioneer 9631 . . . . .	43.7	-	-	-	-	-	-
Deltapine DPX 3681 . . . . .	40.5	-	-	-	-	-	-
Deltapine DPX 3640 . . . . .	38.4	-	-	-	-	-	-
Hartz H6104 . . . . .	31.1	-	-	-	-	-	-
<b>Maturity Group VII</b>							
Pioneer 9761 . . . . .	40.4	37.5	41.4	1.2	1.0	31	10-19
Haskell . . . . .	45.2	36.9	40.4	1.7	1.0	32	10-22
Stonewall . . . . .	46.4	36.7	39.5	1.1	1.0	31	10-18
Carver . . . . .	39.2	33.7	37.5	1.0	1.1	28	10-17
Braxton . . . . .	39.3	33.7	36.8	1.0	1.0	31	10-22
Thomas . . . . .	36.0	31.5	35.8	1.0	1.0	30	10-21
Hagood . . . . .	40.4	34.1	35.2	1.3	1.0	33	10-22
Deltapine 3733 . . . . .	39.5	32.9	-	-	-	-	-
Test Means . . . . .	38.5	32.1	35.9	1.2	1.3	30	
L.S.D. (.05) . . . . .	5.8						
C.V. (%) . . . . .	12.4						

The planting date for 1-year, 2-year, and 3-year averages was June 5, June 6, and June 9, respectively.

Table 13. Performance of Soybean Varieties at Brewton, Alabama, 1996

Brand-variety	Yield Per Acre	Average			Maturity Date
		Lodging	Shattering	Plant Height	
	Bu.	Score	Score	In.	
<b>Maturity Group V</b>					
Hy Performer HY574 .....	56.2	1.0	0.0	28	10-9
Deltapine DP 3571 .....	54.2	1.0	0.0	29	10-9
Hutcheson .....	52.3	1.0	0.0	21	10-8
Dyna-Grow 3576 .....	51.9	1.0	0.0	18	10-7
Hy Performer HSC591 .....	50.5	1.0	0.0	29	10-12
Holladay .....	47.3	1.0	0.0	16	10-9
Clifford .....	43.9	1.0	0.0	20	10-8
<b>Maturity Group VI</b>					
Hartz H6255 .....	62.0	1.0	0.0	28	10-23
Riverside 678 .....	61.4	1.0	0.0	26	10-13
Pioneer 9692 .....	59.4	1.0	0.0	27	10-14
Dillon .....	59.2	1.0	0.0	29	10-12
Deltapine DP3627 .....	59.1	1.0	0.0	28	10-14
Hy Performer HY 663 .....	58.5	1.0	0.0	30	10-13
Pioneer 9631 .....	57.0	1.0	0.0	26	10-14
Deltapine DPX 3640 .....	56.3	1.0	0.0	30	10-17
Young .....	56.2	1.0	0.0	30	10-14
Pioneer 9611 .....	55.0	1.0	0.0	29	10-11
Dyna-Gro 3682 .....	54.8	1.0	0.0	27	10-17
Deltapine DPX 3681 .....	54.6	1.0	0.0	27	10-13
Riverside 699 .....	47.2	1.0	0.0	24	10-14
AU 90-585 .....	45.2	1.0	0.0	22	10-13
Bryan .....	42.0	1.0	0.0	23	10-12
<b>Maturity Group VII</b>					
Haskell .....	59.3	1.0	0.0	28	10-19
Northrup King S75-55 .....	59.1	1.0	0.0	28	10-17
Pioneer 9761 .....	58.4	1.0	0.0	29	10-18
Stonewall .....	57.2	1.0	0.0	27	10-17
Hartz H 7141 .....	56.7	1.0	0.0	26	10-18
Deltapine 3733 .....	56.0	1.0	0.0	25	10-15
Riverside 757 .....	56.0	1.0	0.0	33	10-20
Hartz H 7440 .....	53.7	1.0	0.0	33	10-18
Carver .....	52.5	1.0	0.0	25	10-15
Hagood .....	51.1	1.0	0.0	29	10-19
Deltapine 417 .....	50.0	1.0	0.0	32	10-22
<b>Maturity Group VIII</b>					
Cook .....	60.6	1.0	0.0	34	10-24
Maxcy .....	57.7	1.0	0.0	31	10-25
Hartz HX8558 .....	56.6	1.0	0.0	33	10-23
Test Means .....	54.7	1.0	0.0	27	
L.S.D. (.05) .....	5.3				
C.V. (%) .....	6.9				

Table 14. Performance of Soybean Varieties at Brewton, Alabama, Three-Year Summary, 1994-96

Brand-variety	Yield Per Acre			3-Year Average			Maturity Date
	1996	2-Yr. Av.	3-Yr. Av.	Lodging	Shattering	Plant Height	
	Bu.	Bu.	Bu.	Score	Score	In.	
<b>Maturity Group V</b>							
Hutcheson .....	52.3	52.8	47.2	1.0	0.0	24	10-2
Dyna-Grow 3576 .....	51.9	51.8	44.9	1.1	0.0	21	10-2
Hy Performer HSC591 ..	50.5	48.7	44.2	1.3	0.0	30	10-6
Holladay .....	47.3	47.9	37.6	1.0	0.0	19	10-2
Hy Performer HY574 ...	56.2	54.1	-	-	-	-	-
Clifford .....	43.9	46.6	-	-	-	-	-
Deltapine DP 3571 .....	54.2	-	-	-	-	-	-
<b>Maturity Group VI</b>							
Deltapine DP3627 .....	59.1	57.4	56.0	1.3	0.6	30	10-10
Pioneer 9692 .....	59.4	59.4	55.2	1.3	0.0	28	10-13
Dyna-Gro 3682 .....	54.8	56.3	52.5	1.5	0.6	28	10-14
Bryan .....	42.0	45.8	47.1	1.3	0.0	28	10-13
Riverside 699 .....	47.2	51.9	44.9	1.5	0.0	27	10-11
Hartz H6255 .....	62.0	63.4	-	-	-	-	-
Dillon .....	59.2	59.6	-	-	-	-	-
Riverside 678 .....	61.4	-	-	-	-	-	-
Hy Performer HY 663 ..	58.5	-	-	-	-	-	-
Pioneer 9631 .....	57.0	-	-	-	-	-	-
Deltapine DPX 3640 ...	56.3	-	-	-	-	-	-
Young .....	56.2	-	-	-	-	-	-
Deltapine DPX 3681 ...	54.6	-	-	-	-	-	-
AU 90-585 .....	45.2	-	-	-	-	-	-
<b>Maturity Group VII</b>							
Haskell .....	59.3	61.2	59.4	1.6	0.0	30	10-17
Northrup King S75-55 ..	59.1	61.1	58.5	1.3	0.0	30	10-16
Pioneer 9761 .....	58.4	58.0	56.1	1.3	0.0	31	10-16
Deltapine 3733 .....	56.0	57.8	55.7	1.5	0.0	28	10-15
Riverside 757 .....	56.0	55.8	54.9	1.5	0.0	35	10-18
Hagood .....	51.1	57.0	54.2	1.8	0.0	34	10-18
Deltapine 417 .....	50.0	55.1	52.1	1.5	0.0	37	10-18
Stonewall .....	57.2	58.7	52.0	1.6	0.0	28	10-16
Carver .....	52.5	55.8	50.8	1.3	0.0	28	10-13
Hartz H 7141 .....	56.7	-	-	-	-	-	-
Hartz H 7440 .....	53.7	-	-	-	-	-	-
<b>Maturity Group VIII</b>							
Cook .....	60.6	64.7	58.3	1.7	0.0	35	10-23
Hartz HX8558 .....	56.6	59.3	-	-	-	-	-
Maxcy .....	57.7	-	-	-	-	-	-
Test Means .....	54.7	55.9	51.7	1.4	0.1	29	
L.S.D. (.05) .....	5.3						
C.V. (%) .....	6.9						

The planting date for 1-year, 2-year, and 3-year averages was June 25, June 12, and May 19, respectively.

Table 15. Performance of Soybean Varieties at Fairhope, Alabama, 1996

Brand-variety	Yield Per Acre	Average			Maturity Date
		Lodging	Shattering	Plant Height	
	Bu.	Score	Score	In.	
<b>Maturity Group V</b>					
Hy Performer HY574 .....	58.9	1.3	1.0	36	9-30
Clifford .....	57.7	1.0	1.3	29	9-24
Hutcheson .....	57.0	1.0	1.0	27	9-26
Dyna-Grow 3576 .....	56.6	1.0	1.0	24	10-1
Holladay .....	55.9	1.0	1.0	25	9-23
Northrup King S59-60 .....	55.2	1.8	1.0	31	10-2
Hartz H5488 .....	51.0	1.5	1.0	35	10-1
Hy Performer HSC591 .....	48.2	1.8	1.0	40	10-5
Hartz H5218 .....	47.3	1.3	1.0	32	9-23
<b>Maturity Group VI</b>					
Hartz H6191 .....	65.9	1.3	1.0	27	10-12
Hartz H6255 .....	60.0	2.0	1.0	36	10-13
Pioneer 9692 .....	58.3	1.0	1.0	36	10-9
Young .....	56.6	2.3	1.0	40	10-6
AU 90-585 .....	54.9	1.3	1.0	30	10-8
Hy Performer HY 663 .....	53.5	2.0	1.0	38	10-9
Dyna-Gro 3682 .....	52.0	1.5	1.0	35	10-9
Hartz H6686RR .....	51.7	2.0	1.0	38	10-10
Hartz H6104 .....	51.3	1.3	1.0	34	10-2
Bryan .....	51.2	1.3	1.0	37	10-10
Hartz H6062 .....	50.7	2.3	1.0	40	10-5
Dillon .....	50.1	1.3	1.0	36	10-3
Hy Performer HSC B2J .....	49.6	1.5	1.0	40	10-2
<b>Maturity Group VII</b>					
Northrup King S75-55 .....	63.4	1.8	1.0	40	10-12
Haskell .....	58.2	3.3	1.0	40	10-13
Deltapine 3733 .....	57.7	1.5	1.0	39	10-10
Hartz H 7440 .....	56.7	3.0	1.0	47	10-13
Hartz H 7141 .....	56.4	4.0	1.0	35	10-15
Braxton .....	54.7	2.0	1.0	42	10-13
Stonewall .....	54.5	2.0	1.0	38	10-10
Hagood .....	54.0	3.5	1.0	42	10-16
Carver .....	53.0	1.0	1.0	36	10-8
Deltapine 417 .....	51.1	3.0	1.0	44	10-15
Hy Performer HY798 .....	48.3	2.0	1.0	35	10-13
Thomas .....	47.6	2.3	1.0	38	10-12
<b>Maturity Group VIII</b>					
Cook .....	53.8	2.8	1.0	40	10-14
Hartz HX8558 .....	53.3	3.3	1.0	43	10-17
Maxcy .....	53.3	3.3	1.0	38	10-17
Test Means .....	54.3	1.9	1.0	36	
L.S.D. (.05) .....	5.4				
C.V. (%) .....	7.1				

Table 16. Performance of Soybean Varieties at Fairhope, Alabama, Three-Year Summary, 1994-96

Brand-variety	Yield Per Acre			3-Year Average			
	1996	2-Yr. Av.	3-Yr. Av.	Lodging	Shattering	Plant Height	Maturity Date
	Bu.	Bu.	Bu.	Score	Score	In.	
<b>Maturity Group V</b>							
Northrup King S59-60 ..	55.2	54.8	54.4	2.3	1.1	31	9-28
Hutcheson .....	57.0	56.1	53.5	1.1	1.8	28	9-24
Holladay .....	55.9	52.6	50.7	1.2	1.3	26	9-21
Hy Performer HSC591 ..	48.2	49.0	47.0	2.4	1.1	38	10-2
Hy Performer HY574 ...	58.9	56.2	-	-	-	-	-
Clifford .....	57.7	51.4	-	-	-	-	-
Dyna-Grow 3576 .....	56.6	-	-	-	-	-	-
Hartz H5488 .....	51.0	-	-	-	-	-	-
Hartz H5218 .....	47.3	-	-	-	-	-	-
<b>Maturity Group VI</b>							
Bryan .....	51.2	50.0	49.7	1.8	1.0	36	10-9
Young .....	56.6	52.4	49.7	2.4	1.9	39	10-2
Hy Performer HSC B2J ..	49.6	48.3	47.8	1.7	1.0	36	10-2
Dyna-Gro 3682 .....	52.0	47.4	46.4	1.7	1.0	33	10-7
Pioneer 9692 .....	58.3	56.9	-	-	-	-	-
Hartz H6255 .....	60.0	55.6	-	-	-	-	-
Hartz H6062 .....	50.7	49.4	-	-	-	-	-
Dillon .....	50.1	49.2	-	-	-	-	-
Hartz H6191 .....	65.9	-	-	-	-	-	-
AU 90-585 .....	54.9	-	-	-	-	-	-
Hy Performer HY 663 ..	53.5	-	-	-	-	-	-
Hartz H6686RR .....	51.7	-	-	-	-	-	-
Hartz H6104 .....	51.3	-	-	-	-	-	-
<b>Maturity Group VII</b>							
Haskell .....	58.2	53.3	54.4	2.4	1.0	38	10-13
Northrup King S75-55 ..	63.4	56.1	54.0	1.5	1.0	38	10-10
Deltapine 3733 .....	57.7	53.1	52.9	1.7	1.0	35	10-10
Hartz H 7141 .....	56.4	54.5	52.8	2.9	1.0	36	10-14
Carver .....	53.0	52.0	49.1	1.2	1.0	34	10-5
Stonewall .....	54.5	49.4	48.9	1.8	1.0	36	10-8
Hartz H 7440 .....	56.7	51.9	48.2	2.7	1.0	45	10-14
Hagood .....	54.0	52.8	48.1	2.9	1.0	42	10-16
Braxton .....	54.7	49.8	47.9	1.8	1.0	41	10-14
Hy Performer HY798 ...	48.3	47.2	47.5	2.1	1.0	34	10-13
Thomas .....	47.6	44.9	43.5	1.8	1.0	38	10-11
Deltapine 417 .....	51.1	45.3	40.7	2.6	1.1	44	10-14
<b>Maturity Group VIII</b>							
Cook .....	53.8	50.1	48.0	2.3	1.0	40	10-12
Hartz HX8558 .....	53.3	45.7	-	-	-	-	-
Maxcy .....	53.3	-	-	-	-	-	-
Test Means .....	54.3	51.3	49.3	2.0	1.1	37	
L.S.D. (.05 .....	6.3						
C.V. (%) .....	7.1						

The planting date for 1-year, 2-year, and 3-year averages was June 12, June 6, and June 1, respectively.



Table 17. Performance of Soybean Varieties at Shorter, Alabama, 1996

Brand-variety	Yield Per Acre <i>Bu.</i>	Average			Maturity Date
		Lodging <i>Score</i>	Shattering <i>Score</i>	Plant Height <i>In.</i>	
<b>Maturity Group V</b>					
Deltapine 105 .....	53.7	1.8	1.5	36	-
Hy Performer HSC591 .....	52.4	1.3	1.5	38	10-7
Hartz 5164 .....	49.7	1.5	1.8	35	-
Hutcheson .....	49.7	1.0	1.5	26	-
Pioneer 9584 .....	44.8	1.3	1.5	35	10-7
<b>Maturity Group VI</b>					
Brim .....	64.1	1.5	1.0	38	-
Hartz H6255 .....	61.9	1.8	1.0	34	10-17
Pioneer 9692 .....	60.6	1.3	1.0	37	10-18
Deltapine DP3627 .....	59.6	1.3	1.3	35	-
Dillon .....	57.1	1.3	1.3	35	-
Young .....	54.5	2.3	1.3	40	10-15
<b>Maturity Group VII</b>					
Pioneer 9761 .....	63.6	1.5	1.0	38	10-21
Deltapine 3733 .....	62.3	1.8	1.3	38	10-20
Stonewall .....	61.7	1.8	1.3	37	10-19
Hartz H 7440 .....	59.9	2.8	1.3	43	0-20
Haskell .....	57.6	3.8	1.0	36	10-21
Carver .....	56.4	1.0	1.3	35	-
Test Means .....	57.0	1.7	1.3	36	
L.S.D. (.05) .....	8.9				
C.V. (%) .....	10.9				

Table 18. Performance of Early Planted Soybean Varieties at Brewton, Alabama, 1996

Brand-variety	Yield Per Acre <i>Bu.</i>	Average			Maturity Date
		Lodging <i>Score</i>	Shattering <i>Score</i>	Plant Height <i>In.</i>	
<b>Maturity Group V</b>					
Deltapine DP 3588 .....	76.1	1.0	0.0	33	9-25
Hutcheson .....	74.1	1.0	1.3	21	9-25
Deltapine 105 .....	71.9	1.0	0.0	28	9-23
Holladay .....	59.5	1.0	0.0	17	9-24
Deltapine DP 3519 .....	57.5	1.0	0.0	21	9-22
Essex .....	44.5	1.0	2.5	17	9-24
<b>Maturity Group VI</b>					
Young .....	79.7	1.0	0.0	33	9-29
Dillon .....	77.6	1.0	0.0	27	9-27
Bryan .....	64.9	1.0	0.0	27	10-6
<b>Maturity Group VII</b>					
Haskell .....	67.5	1.0	0.0	29	10-14
Carver .....	58.3	1.0	0.0	24	10-9
Stonewall .....	53.0	1.0	0.0	26	10-9
Test Means .....	65.4	1.0	0.3	25	
L.S.D. (.05) .....	7.1				
C.V. (%) .....	7.6				

Table 19. Performance of Soybean Varieties in Preliminary Tests, 1996

Brand-variety	Yield Per Acre		
	Northern (Belle Mina)	Central (Prattville)	Southern (Monroeville)
	Bu.	Bu.	Bu.
<b>Maturity Group V</b>			
F 91-1419 . . . . .	41.8	39.0	58.1
F 91-1577 . . . . .	34.1	38.0	53.1
Hutcheson . . . . .	41.5	30.2	57.5
Hy Performer HSC591 . . . . .	49.6	52.7	54.3
<b>Maturity Group VI</b>			
Deltapine DPX 3679 . . . . .	-	51.6	64.4
Dillon . . . . .	34.9	45.3	55.2
F 91-3578 . . . . .	32.8	36.0	49.3
Northrup King S62-62 . . . . .	47.0	-	58.4
Northrup King S65-50 . . . . .	-	39.0	59.8
Northrup King S67-70 . . . . .	-	-	59.1
Pioneer 9692 . . . . .	46.1	47.7	60.0
SC 89-181 . . . . .	48.6	50.5	62.7
<b>Maturity Group VIII</b>			
AU 91-1970 . . . . .	-	-	56.4
Cook . . . . .	-	-	60.7
F 91-2161 . . . . .	-	-	53.5
F 91-2420 . . . . .	-	-	50.4
F 91-2421 . . . . .	-	-	57.0
Test Means . . . . .	41.8	43.0	57.0
L.S.D. (0.05) . . . . .	4.7	9.4	5.1
C.V. (%) . . . . .	7.6	15.0	6.3

