

Performance

of Soybean

Varieties

in Alabama

1994



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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, 1994

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INTRODUCTION

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

Region	Location
Northern	Belle Mina, Crossville
Central	Prattville
Southern	Brewton, Monroeville
Black Belt	Marion Junction (two 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 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 row 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 reached mature pod color. Harvest was approximately 7 to 10 days later.

SEASONAL CONDITIONS

Rainfall (Table 3) in April and May 1993 and 1994 was such that planting dates for the standard tests in northern Alabama and Marion Junction and Prattville in central Alabama were delayed. All other standard tests were planted for optimum growth. 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.

The Sumter soil test at Marion Junction was not reported due to excessive herbicide damage.

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 1994 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 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 1-year performance. Three-year regional averages are considered a reliable evaluation of the relative performance of varieties.

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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	W.B. Webster, Superintendent H.E. Burgess, B.E. Norris
Sand Mountain Substation, Crossville	J.T. Eason, Superintendent M.E. Ruf
Prattville Experiment Field, Prattville	D.P. Moore
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, Research Data Analysis, for the computation and analysis of the data in this report.

Table 1. Entries and Sources for 1994

Alabama Crop Imp. Assoc. Auburn, Alabama	Essex Hutcheson Ransom Stonewall Young
Asgrow Seed Co. Matthews, Missouri	Asgrow brand varieties
Capehart Seed Service Holland, Missouri	Stone
Delhi Seed Co., Inc. Delhi, Louisiana	Buckshot brand varieties
Delta and Pine Land Company Scott, Mississippi	Deltapine brand varieties
Department of Agronomy and Soils Auburn University, Alabama	Carver Au90-442 Au90-585 Au90-592 Au90-1424
Dixie Ag. Supply Athens, Alabama	Dyna-Gro brand varieties
Escambia Farm and Seed Co. Atmore, Alabama	Braxton Centennial Leflore Thomas
Georgia Seed Development Commission Athens, Georgia	Bryan Cook Doles Haskell Johnston Wright
Hy Performer Seed Company Memphis, Tennessee	Hy Performer brand varieties HSC, HY
Jacob Hartz Seed Company, Inc. Suttgart, Arkansas	Hartz brand varieties

(Continued on following page)

Table 1 (continued). Entries and Sources for 1994

Northrup King Co. Highland, Illinois	Coker brand varieties S57-11 S59-60 S62-66 S66-90 S75-55
North Carolina State University Raleigh, North Carolina	Brim Clifford Holladay
Pioneer Hi-Bred International, Inc. Huntsville, Alabama	Pioneer brand varieties
South Carolina Crop Impr. Assoc. Clemson, South Carolina	Hagood
Terra International, Inc. Memphis, Tennessee	Riverside brand varieties
Terral-Norris Seed Company, Inc. Lake Providence, Louisiana	Terra-Vig brand varieties
Vigoro Industries, Inc. Jefferson, Georgia	Vigoro brand varieties

Table 2. Cultural Practices for Soybean Variety Tests in 1994

Location	Type test	Date planted	Row width	Herbicide used	Fertilizer applied
Belle Mina	Standard Preliminary	May 11 May 11	30 30	Treflan, Sceptor Treflan, Sceptor	none recommended none recommended
Crossville. . . .	Standard	May 13	30	Sceptor, Dual	100 lb. 0-45-0/acre + 100 lb. 0-0-60/acre
Prattville	Standard Preliminary	May 30 May 30	30 30	Prowl, Vernam Prowl	none recommended 48 lb. 0-0-60/ acre
Marion Junction .	Standard (Sumter) Standard (Vaiden)	June 6&9 June 9	36 36	Prowl, Sceptor Prowl, Sceptor	not harvested 200 lb. 0-26-26/acre
Brewton	Early Standard	April 29 May 19	36 36	Vernam Dual	500 lb. 0-14-14/acre none recommended
Monroeville . . .	Preliminary	June 20	36	Dual	400 lb. 0-14-14/acre
Fairhope	Standard	June 1	30	Dual	none recommended

Table 3. Rainfall at Test Locations During Growing Season, 1994

Month	Days	BelleMina	Crossville	Prattville	Marion Junction	Brewton	Fairhope
		<u>In.</u>	<u>In.</u>	<u>In.</u>	<u>In.</u>	<u>In.</u>	<u>In.</u>
May.....	1-5	1.71	1.12	0.83	0.05	1.02	1.54
	6-10	1.42	1.20	0.02	1.12	0.03	0.13
	11-15	0.37	1.07	0.23	0.13	0.04	0.02
	16-20	0.58	0.02	0.02	0.31	0.61	0.17
	21-25	0.00	0.00	0.00	3.03	0.00	0.00
	26-31	<u>1.66</u>	<u>0.42</u>	<u>0.43</u>	<u>0.15</u>	<u>2.70</u>	<u>1.03</u>
		5.74	3.83	1.53	5.84	4.40	2.89
June.....	1-5	0.00	0.00	0.06	0.62	5.28	0.47
	6-10	1.03	2.49	0.89	1.25	5.35	2.01
	11-15	0.21	0.08	1.44	0.48	2.15	0.26
	16-20	0.22	0.69	0.55	0.31	0.95	0.14
	21-25	1.11	1.52	1.18	3.03	2.77	2.55
	26-30	<u>4.85</u>	<u>2.32</u>	<u>1.18</u>	<u>0.75</u>	<u>0.08</u>	<u>1.89</u>
		7.42	7.10	5.30	5.84	16.58	7.32
July.....	1-5	0.15	0.08	0.70	0.04	0.47	0.38
	6-10	0.60	0.89	2.33	4.24	8.07	3.46
	11-15	1.29	2.24	1.49	2.17	1.80	5.54
	16-20	0.35	0.81	0.68	0.00	0.80	0.00
	21-25	0.14	0.00	0.22	0.43	2.72	0.36
	26-31	<u>1.44</u>	<u>1.84</u>	<u>2.24</u>	<u>0.75</u>	<u>1.32</u>	<u>1.20</u>
		3.97	5.86	7.66	7.63	15.18	10.94
August.....	1-5	0.65	0.15	1.04	0.93	1.06	3.00
	6-10	0.00	0.42	0.00	0.00	.87	0.40
	11-15	0.09	0.02	0.34	0.23	0.21	0.34
	16-20	0.20	0.29	0.12	0.02	0.56	0.04
	21-25	0.43	0.72	0.48	0.67	0.45	1.16
	26-31	<u>0.22</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.12</u>
		1.59	1.60	1.98	1.85	3.15	5.06
September..	1-5	1.71	0.88	1.82	0.26	0.00	0.01
	6-10	0.22	0.11	0.78	2.39	0.26	0.15
	11-15	0.00	0.00	0.00	0.00	0.26	0.15
	16-20	0.44	0.36	0.82	0.32	0.86	0.75
	21-25	1.22	4.95	1.07	1.05	2.13	0.40
	26-30	<u>0.45</u>	<u>0.03</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
		4.04	6.33	4.49	4.02	3.51	1.46
October.....	1-5	2.06	2.44	0.77	0.50	1.98	3.40
	6-10	1.13	0.85	1.41	0.02	0.32	0.35
	11-15	1.29	0.68	1.24	2.01	3.38	1.01
	16-20	0.50	0.02	0.00	0.00	0.00	0.00
	21-25	0.54	1.12	0.63	0.00	0.22	1.12
	26-31	<u>0.06</u>	<u>0.19</u>	<u>0.01</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
		5.58	5.30	4.06	2.53	5.90	5.88

Table 4. Soil Types for Soybean Tests, 1994

Test location	Soil type
Belle Mina	Emory silt loam
Crossville	Wynnvilke fine sandy loam
Prattville.	Lucedale fine 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, 1994

Brand-Variety	Yield Per Acre		Regional Average			Maturity Date
	Belle Mina	Crossville*	Lodging	Shattering	Plant Height	
	Bu.	Bu.	Score	Score	In.	
<u>Maturity Group V</u>						
Buckshot 507.....	56.1	39.6	1.6	1.0	36	10-2
Buckshot 55.....	60.1	39.0	1.8	1.0	33	9-26
Deltapine 105.....	48.7	27.4	2.2	1.0	33	9-27
Deltapine 415.....	50.6	43.7	1.5	1.0	33	9-24
Dyna-Grow 3542.....	46.0	39.0	2.4	1.0	44	10-3
Dyna-Grow 3576.....	47.0	33.5	1.0	1.0	29	9-25
Essex.....	38.3	28.0	1.0	1.0	26	9-20
Hartz 5164.....	60.6	41.2	2.0	1.0	36	10-1
Hartz H5350.....	60.2	45.2	1.0	1.0	33	9-28
Hartz H5545.....	45.7	39.7	1.4	1.0	33	9-23
Hartz H5566.....	57.6	40.1	1.8	1.0	35	9-29
Holladay.....	40.1	23.1	1.0	1.0	25	9-20
Hutcheson.....	52.9	35.9	1.3	1.0	32	9-26
Hy Performer HSC591.....	50.5	38.2	2.0	1.0	41	10-7
Northrup King Coker 485.....	46.1	42.1	1.3	1.0	35	10-1
Northrup King S59-60.....	64.4	40.9	2.2	1.0	33	9-28
Pioneer 9551.....	49.8	41.6	1.3	1.0	31	9-20
Pioneer 9584.....	48.6	44.6	1.5	1.0	33	9-27
Pioneer 9593.....	44.8	46.1	1.5	1.0	37	10-1
Riverside 577.....	52.2	43.2	2.4	1.0	40	9-30
Riverside 77.....	43.8	28.0	1.5	1.0	34	9-30
Riverside Robin-5.....	49.1	42.3	1.1	1.0	31	9-29
Stone.....	36.4	18.9	1.3	1.0	37	9-27
Terra-Vig 5452.....	51.1	45.4	1.6	1.0	36	9-23
<u>Maturity Group VI</u>						
Asgrow A 6297.....	58.5	38.1	1.5	1.0	36	10-7
Brim.....	40.6	23.0	1.3	1.0	39	10-2
Dyna-Gro 3682.....	51.2	36.1	1.9	1.0	38	10-8
G83-198.....	46.4	33.9	1.8	1.0	35	10-9
Hartz 6686.....	45.4	19.9	1.3	1.0	38	10-8
Hy Performer HSC B2J.....	46.8	33.1	1.5	1.0	40	10-3
Leflore.....	55.8	29.8	1.6	1.0	40	10-7
Northrup King S62-66.....	65.6	35.0	2.4	1.0	34	10-4
Pioneer 9641.....	40.0	25.7	1.5	1.0	37	10-4
Pioneer 9692.....	53.2	34.1	1.5	1.0	38	10-10
Young.....	40.7	19.9	1.5	1.0	39	10-6
<u>Maturity Group VII</u>						
Braxton*.....	41.4	7.5	1.3	1.0	40	10-13
Carver.....	53.9	28.7	1.3	1.0	36	10-7
Haskell*.....	44.6	14.2	2.1	1.0	40	10-12
Stonewall.....	44.8	29.8	1.3	1.0	38	10-7
<hr/>						
Test Means.....	49.5	33.7	1.6	1.0	35	
L.S.D. (.05).....	8.3	8.2				
C.V. (%).....	12.0	17.4				

* Sudden Death Syndrome was reported at Crossville and was severe on Braxton and Haskell.

Table 6. Performance of Soybean Varieties in Northern Alabama, 3-Year Summary, 1992-94

Brand-Variety	Yield Per Acre			3-Year Average			
	1994	2-Yr. Av.	3-Yr. Av.	Lodging	Shattering	Plant Height	Maturity Date
	Bu.	Bu.	Bu.	Score	Score	In.	
Maturity Group V							
Northrup King S59-60....	52.7	45.3	47.4	2.1	0.8	33	10-1
Hartz H5350.....	52.7	46.7	47.4	1.3	0.8	33	10-1
Hartz 5164.....	50.9	44.7	47.2	2.0	0.8	36	10-3
Deltapine 415.....	47.2	43.9	46.8	1.3	0.8	33	9-29
Northrup King Coker 485.	44.1	41.5	46.6	1.5	0.8	35	10-3
Hartz H5566.....	48.9	44.4	45.6	1.6	0.8	34	10-3
Pioneer 9593.....	45.4	41.4	45.5	1.6	0.8	37	10-2
Buckshot 507.....	47.9	44.4	45.5	1.9	0.8	34	10-3
Terra-Vig 5452.....	48.2	44.3	45.5	1.6	0.8	35	9-28
Hutcheson.....	44.4	39.5	42.7	1.3	0.8	31	9-29
Pioneer 9551.....	45.7	41.3	42.0	1.2	0.8	31	9-24
Hy Performer HSC591....	44.4	40.4	41.2	1.9	0.8	40	10-9
Deltapine 105.....	38.1	35.2	39.1	1.8	0.8	34	9-30
Holladay.....	31.6	33.9	38.6	1.0	0.8	25	9-23
Essex.....	33.2	32.5	35.6	1.0	0.8	26	9-23
Buckshot 55.....	49.6	45.4	-	-	-	-	-
Hartz H5545.....	42.7	41.4	-	-	-	-	-
Stone.....	27.6	27.9	-	-	-	-	-
Riverside 577.....	47.7	-	-	-	-	-	-
Pioneer 9584.....	46.6	-	-	-	-	-	-
Riverside Robin-5.....	45.7	-	-	-	-	-	-
Dyna-Grow 3542.....	42.5	-	-	-	-	-	-
Dyna-Grow 3576.....	40.3	-	-	-	-	-	-
Riverside 77.....	35.9	-	-	-	-	-	-
Maturity Group VI							
Northrup King S62-66....	50.3	45.0	46.0	2.1	0.8	34	10-6
Hy Performer HSC B2J....	40.0	38.3	41.2	1.5	0.8	39	10-7
Leflore.....	42.8	40.7	40.7	1.5	0.8	39	10-11
Brim.....	31.8	34.8	37.5	1.3	0.9	37	10-6
Pioneer 9641.....	32.9	32.3	37.1	1.4	0.8	36	10-7
Hartz 6686.....	32.7	34.1	37.0	1.2	0.8	37	10-12
Young.....	30.3	30.5	34.1	1.5	0.8	39	10-8
Asgrow A 6297.....	48.3	-	-	-	-	-	-
Pioneer 9692.....	43.7	-	-	-	-	-	-
Dyna-Gro 3682.....	43.6	-	-	-	-	-	-
G83-198.....	40.1	-	-	-	-	-	-
Maturity Group VII							
Stonewall.....	37.3	38.3	39.6	1.6	0.8	37	10-12
Braxton.....	24.4	27.5	29.1	1.3	0.8	39	10-17
Carver.....	41.3	42.0	-	-	-	-	-
Haskell.....	29.4	31.7	-	-	-	-	-
Test Means.....	41.6	38.9	41.6	1.5	0.8	35	
L.S.D. (.05).....	8.2	7.3	8.9				
C.V. (%).....	14.2	13.4	15.3				

The planting date for 1-year, 2-year, and 3-year averages was May 12, May 15, and May 18, respectively.

Table 7. Performance of Soybean Varieties at Prattville, Alabama, 1994

Brand-Variety	Yield Per Acre Bu.	Regional Average			Maturity Date
		Lodging Score	Shattering Score	Plant Height In.	
<u>Maturity Group V</u>					
Buckshot 507.....	39.4	1.0	1.0	32	10-4
Buckshot 55.....	28.0	1.0	1.0	27	10-2
Deltapine 105.....	37.5	1.0	1.0	31	9-30
Deltapine 415.....	41.4	1.0	1.0	27	9-28
Dyna-Grow 3542.....	38.1	1.0	1.0	32	10-5
Dyna-Grow 3576.....	34.6	1.0	1.0	24	10-7
Holladay.....	37.2	1.0	1.3	24	9-16
Hutcheson.....	41.9	1.0	1.0	25	10-2
Hy Performer HSC591.....	36.0	1.0	1.0	36	10-15
Stone.....	33.9	1.0	1.0	33	10-1
Terra-Vig 5693.....	46.9	1.0	1.0	32	10-1
<u>Maturity Group VI</u>					
Asgrow A 6297.....	24.4	1.0	1.0	29	10-22
Brim.....	50.3	1.0	1.0	37	10-15
Bryan.....	28.8	1.0	1.0	35	10-24
Buckshot 66.....	35.1	1.3	1.0	38	10-20
Deltapine DP3627.....	41.6	1.0	1.0	30	10-16
Deltapine DPX 3606.....	31.1	1.0	1.0	34	10-13
Deltapine DPX 3682.....	27.6	1.0	1.0	37	10-22
Dyna-Gro 3682.....	28.1	1.0	1.0	32	10-21
Hy Performer HY 677.....	35.7	1.0	1.0	31	10-22
Leflore.....	27.1	1.0	1.0	33	10-18
Pioneer 9641.....	39.3	1.0	1.0	35	10-13
Pioneer 9692.....	35.6	1.0	1.0	34	10-21
Terra-Vig 6253.....	42.6	1.0	1.0	35	10-16
Vigoro V 663.....	28.5	1.0	1.0	26	10-20
Young.....	42.6	1.0	1.0	35	10-13
<u>Maturity Group VII</u>					
Buckshot 723.....	35.1	1.3	1.0	38	10-28
Carver.....	23.6	1.0	1.0	34	10-23
Haskell.....	39.2	1.5	1.0	39	10-23
Pioneer 9711.....	42.5	1.0	1.0	32	10-22
Pioneer 9761.....	34.1	1.0	1.0	35	10-29
Stonewall.....	35.4	1.0	1.0	32	10-22
Thomas.....	25.5	1.0	1.0	34	10-26
Vigoro V 713.....	32.0	1.0	1.0	33	10-27
Wright.....	30.4	1.0	1.0	36	10-25
<u>Maturity Group VIII</u>					
Cook.....	45.1	1.0	1.0	34	10-25
Johnston.....	34.6	1.0	1.0	33	10-27
<hr/>					
Test Means.....	35.4	1.0	1.0	32	
L.S.D. (.05).....	5.9				
C.V. (%).....	11.9				

Table 8. Performance of Soybean Varieties at Prattville, Alabama, 3-Year Summary, 1992-94

Brand-Variety	Yield Per Acre			3-Year Average			Maturity Date
	1994 Bu.	2-Yr. Av. Bu.	3-Yr. Av. Bu.	Lodging Score	Shattering Score	Plant Height In.	
<u>Maturity Group V</u>							
Hutcheson.....	41.9	34.2	40.1	1.0	1.0	24	9-26
Deltapine 415.....	41.4	30.0	37.4	1.0	1.0	22	9-24
Deltapine 105.....	37.5	26.1	34.2	1.0	1.0	26	9-27
Hy Performer HSC591.....	36.0	29.5	33.2	1.0	1.0	30	10-6
Terra-Vig 5693.....	46.9	35.3	-	-	-	-	-
Stone.....	33.9	27.1	-	-	-	-	-
Buckshot 507.....	39.4	24.9	-	-	-	-	-
Holladay.....	37.2	24.5	-	-	-	-	-
Buckshot 55.....	28.0	23.4	-	-	-	-	-
Dyna-Grow 3542.....	38.1	-	-	-	-	-	-
Dyna-Grow 3576.....	34.6	-	-	-	-	-	-
<u>Maturity Group VI</u>							
Brim.....	50.3	38.1	38.6	1.0	1.0	33	10-7
Pioneer 9641.....	39.3	30.5	35.0	1.0	1.2	30	10-6
Young.....	42.6	30.8	33.5	1.0	1.1	32	10-7
Deltapine DP3627.....	41.6	30.3	33.5	1.0	1.0	27	10-8
Buckshot 66.....	35.1	28.9	32.1	1.1	1.0	35	10-13
Leflore.....	27.1	25.7	29.6	1.0	1.0	31	10-11
Bryan.....	28.8	22.7	28.7	1.0	1.0	31	10-16
Deltapine DPX 3682.....	27.6	22.2	26.5	1.0	1.1	31	10-13
Terra-Vig 6253.....	42.6	34.3	-	-	-	-	-
Hy Performer HY 677.....	35.7	-	-	-	-	-	-
Pioneer 9692.....	35.6	-	-	-	-	-	-
Deltapine DPX 3606.....	31.1	-	-	-	-	-	-
Vigoro V 663.....	28.5	-	-	-	-	-	-
Dyna-Gro 3682.....	28.1	-	-	-	-	-	-
Asgrow A 6297.....	24.4	-	-	-	-	-	-
<u>Maturity Group VII</u>							
Pioneer 9711.....	42.5	33.3	35.0	1.0	1.0	30	10-15
Pioneer 9761.....	34.1	26.4	31.4	1.0	1.0	33	10-19
Wright.....	30.4	25.8	30.2	1.0	1.0	35	10-16
Buckshot 723.....	35.1	26.9	29.8	1.1	1.1	35	10-17
Stonewall.....	35.4	25.8	28.9	1.0	1.0	31	10-15
Thomas.....	25.5	24.9	28.8	1.0	1.0	32	10-17
Carver.....	23.6	22.1	27.4	1.0	1.0	31	10-13
Haskell.....	39.2	32.1	-	-	-	-	-
Vigoro V 713.....	32.0	-	-	-	-	-	-
<u>Maturity Group VIII</u>							
Cook.....	45.1	34.6	36.8	1.0	1.0	33	10-19
Johnston.....	34.6	29.3	32.1	1.0	1.0	33	10-21
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Test Means.....	35.4	28.6	32.5	1.0	1.0	31	
L.S.D. (.05).....	5.9	5.2	5.5				
C.V. (%).....	11.9	13.0	12.0				

The planting date for 1-year, 2-year, and 3-year averages was May 30, May 21, and May 27, respectively.

Table 9. Performance of Soybean Varieties on Vaiden Soil, Marion Junction, Alabama, 1994

Brand-Variety	Yield Per Acre Bu.	Lodging Score	Shattering Score	Average		
				Plant Height In.	Maturity Date	
<u>Maturity Group V</u>						
Hy Performer HSC591.....	42.9	1.8	1.0	36	10-12	
Deltapine 3589.....	42.8	1.0	1.0	36	10-4	
Hartz H5545.....	42.0	1.8	1.0	29	10-2	
Deltapine 105.....	41.8	2.0	1.0	32	10-7	
Hutcheson.....	40.7	1.0	1.0	26	9-29	
Northrup King S59-60....	40.2	2.7	1.0	30	10-4	
Deltapine 415.....	39.6	1.0	1.0	29	9-28	
Stone.....	38.5	1.0	1.3	30	10-3	
Dyna-Grow 3576.....	36.4	1.0	2.0	25	10-2	
Dyna-Grow 3542.....	33.5	2.0	1.0	35	10-6	
<u>Maturity Group VI</u>						
Asgrow A 6961.....	49.9	1.0	1.3	34	10-18	
Hartz 6686.....	49.7	1.0	1.3	33	10-17	
Hy Performer HY 677.....	48.7	1.0	1.5	31	10-19	
Pioneer 9692.....	48.0	1.0	1.0	32	10-17	
Deltapine DP3627.....	47.5	1.8	1.5	33	10-11	
Vigoro V 663.....	47.4	1.0	1.0	31	10-17	
Dyna-Gro 3682.....	47.3	1.8	1.0	33	10-17	
Deltapine DPX 3606.....	47.1	1.5	1.5	31	10-10	
Pioneer 9641.....	44.3	1.0	1.5	29	10-12	
Leflore.....	43.8	1.3	1.0	32	10-17	
Terra-Vig 6653.....	43.5	1.0	1.0	31	10-16	
Brim.....	43.0	1.0	1.8	30	10-7	
Centennial.....	42.5	1.0	1.0	33	10-15	
Deltapine DPX 3682.....	41.9	1.0	1.5	31	10-14	
Bryan.....	41.4	1.0	1.0	34	10-17	
Riverside Cajun.....	40.8	1.5	1.0	28	10-12	
Young.....	40.8	1.5	1.5	33	10-11	
Riverside 699.....	40.6	1.0	1.3	28	10-18	
Hy Performer HSC B2J....	39.7	1.3	1.0	35	10-7	
<u>Maturity Group VII</u>						
Pioneer 9761.....	49.0	1.0	1.0	31	10-19	
Hartz H7190.....	47.7	1.0	1.0	31	10-19	
Haskell.....	47.4	2.5	1.0	34	10-20	
Vigoro V 713.....	45.6	1.0	1.5	30	10-17	
Carver.....	45.2	1.0	1.3	29	10-17	
Stonewall.....	45.2	1.0	1.0	32	10-17	
Thomas.....	44.5	1.0	1.0	31	10-19	
Pioneer 9711.....	44.3	1.8	1.0	33	10-17	
Hartz H 7440.....	43.1	1.5	1.0	37	10-21	
Braxton.....	43.0	1.0	1.0	31	10-20	
Hy Performer HSC-721....	42.0	1.8	1.0	32	10-20	
Wright.....	41.4	1.8	1.0	33	10-19	
Riverside 757.....	40.9	2.2	1.0	38	10-21	
Hagood.....	37.4	1.8	1.0	34	10-21	
<u>Maturity Group VIII</u>						
Cook.....	54.5	1.0	1.0	31	10-24	
Johnston.....	42.4	1.0	1.0	33	10-24	
Test Means.....	43.5	1.3	1.1	32		
L.S.D. (.05).....	5.8					
C.V. (%).....	9.6					

Table 10. Performance of Soybean Varieties on Vaiden Soil, Marion Junction, Alabama, 3-Year Summary, 1992-94

Brand-Variety	Yield Per Acre			3-Year Average			Maturity Date
	1994	2-Yr. Av.	3-Yr. Av.	Lodging	Shattering	Plant Height	
	Bu.	Bu.	Bu.	Score	Score	In.	
<u>Maturity Group V</u>							
Northrup King S59-60....	40.2	41.0	46.8	2.0	1.3	29	10-3
Hy Performer HSC591....	42.9	43.3	46.3	1.3	1.0	35	10-8
Deltapine 105.....	41.8	43.8	46.1	1.8	1.8	32	10-3
Hutcheson.....	40.7	38.9	45.6	1.0	1.7	26	9-29
Deltapine 415.....	39.6	40.7	44.7	1.0	1.2	28	9-28
Stone.....	38.5	40.4	43.6	1.0	1.6	29	10-3
Deltapine 3589.....	42.8	46.0	-	-	-	-	-
Hartz H5545.....	42.0	-	-	-	-	-	-
Dyna-Grow 3576.....	36.4	-	-	-	-	-	-
Dyna-Grow 3542.....	33.5	-	-	-	-	-	-
<u>Maturity Group VI</u>							
Hartz 6686.....	49.7	49.0	53.0	1.3	1.1	32	10-13
Deltapine DP3627.....	47.5	48.5	51.2	1.5	1.3	33	10-8
Deltapine DPX 3682.....	41.9	46.4	49.6	1.0	1.5	32	10-12
Brim.....	43.0	44.8	49.5	1.4	2.2	31	10-7
Terra-Vig 6653.....	43.5	43.5	47.4	1.1	1.1	30	10-13
Centennial.....	42.5	44.3	46.9	1.1	1.0	34	10-12
Bryan.....	41.4	45.3	46.8	1.0	1.0	35	10-15
Pioneer 9641.....	44.3	44.9	46.3	1.3	2.0	31	10-8
Leflore.....	43.8	42.7	44.9	1.3	1.1	33	10-13
Hy Performer HSC B2J....	39.7	42.1	44.7	1.2	1.3	34	10-7
Young.....	40.8	42.4	43.8	2.0	2.1	35	10-8
Deltapine DPX 3606.....	47.1	48.6	-	-	-	-	-
Asgrow A 6961.....	49.9	-	-	-	-	-	-
Hy Performer HY 677.....	48.7	-	-	-	-	-	-
Pioneer 9692.....	48.0	-	-	-	-	-	-
Vigoro V 663.....	47.4	-	-	-	-	-	-
Dyna-Gro 3682.....	47.3	-	-	-	-	-	-
Riverside Cajun.....	40.8	-	-	-	-	-	-
Riverside 699.....	40.6	-	-	-	-	-	-
<u>Maturity Group VII</u>							
Hartz H7190.....	47.7	49.9	53.0	1.1	1.0	31	10-18
Carver.....	45.2	47.2	51.2	1.0	1.2	31	10-14
Stonewall.....	45.2	47.8	49.8	1.3	1.0	33	10-14
Pioneer 9761.....	49.0	48.1	49.5	1.0	1.1	32	10-17
Pioneer 9711.....	44.3	45.2	47.6	1.3	1.0	33	10-15
Braxton.....	43.0	45.2	46.3	1.2	1.0	35	10-17
Hy Performer HSC-721....	42.0	43.6	46.1	2.1	1.0	33	10-16
Hagood.....	37.4	41.1	43.6	2.0	1.2	37	10-18
Haskell.....	47.4	51.2	-	-	-	-	-
Thomas.....	44.5	47.2	-	-	-	-	-
Vigoro V 713.....	45.6	-	-	-	-	-	-
Hartz H 7440.....	43.1	-	-	-	-	-	-
Wright.....	41.4	-	-	-	-	-	-
Riverside 757.....	40.9	-	-	-	-	-	-
<u>Maturity Group VIII</u>							
Cook.....	54.5	52.8	52.3	1.3	1.0	35	10-20
Johnston.....	42.4	45.6	49.3	1.3	1.0	33	10-21
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Test Means.....	43.5	45.2	47.6	1.3	1.3	32	
L.S.D. (.05).....	5.8	6.7	7.4				
C.V. (%).....	9.6	7.4	6.0				

The planting date for 1-year, 2-year, and 3-year averages was June 9, June 11, and May 15, respectively.

Table 11. Performance of Soybean Varieties at Brewton, Alabama, 1994

Brand-Variety	Yield Per Acre Bu.	Regional Average			Maturity Date
		Lodging Score	Shattering Score	Plant Height In.	
<u>Maturity Group V</u>					
Buckshot 507.....	32.0	1.0	-	28	9-25
Buckshot 55.....	32.4	1.0	-	22	9-23
Deltapine 3589.....	41.1	1.0	-	32	9-23
Dyna-Grow 3542.....	37.4	1.0	-	31	9-24
Dyna-Grow 3576.....	31.2	1.0	-	19	9-24
Holladay.....	16.9	1.0	-	18	9-23
Hutcheson.....	35.8	1.0	-	21	9-22
Hy Performer HSC591.....	35.1	1.0	-	30	9-29
Stone.....	32.3	1.0	-	24	9-28
<u>Maturity Group VI</u>					
Bryan.....	49.5	1.0	-	28	10-11
Buckshot 66.....	52.2	1.0	-	31	10-11
Deltapine DP3627.....	53.3	1.0	-	30	10-5
Deltapine DPX 3606.....	47.8	1.0	-	27	10-3
Deltapine DPX 3682.....	49.9	1.0	-	29	10-11
Dyna-Gro 3682.....	44.8	1.0	-	25	10-8
Hy Performer HSC B2J.....	39.9	1.0	-	25	10-1
Hy Performer HY 677.....	48.2	1.0	-	28	10-14
Pioneer 9641.....	34.9	1.0	-	25	10-2
Pioneer 9692.....	46.9	1.0	-	28	10-10
Riverside 699.....	30.8	1.0	-	27	10-4
Riverside Cajun.....	30.4	1.0	-	22	10-5
Terra-Vig 6653.....	35.7	1.0	-	25	10-14
Young.....	44.0	1.0	-	30	10-5
<u>Maturity Group VII</u>					
Braxton.....	50.9	1.0	-	32	10-18
Buckshot 723.....	45.4	1.0	-	30	10-19
Carver.....	41.0	1.0	-	28	10-10
Deltapine 3733.....	51.4	1.0	-	26	10-16
Deltapine 417.....	46.0	1.3	-	40	10-14
Hagood.....	48.6	1.3	-	34	10-18
Haskell.....	55.9	1.0	-	31	10-16
Hy Performer HSC-721.....	40.8	1.0	-	33	10-13
Northrup King S75-55.....	53.3	1.0	-	30	10-14
Pioneer 9711.....	46.2	1.0	-	31	10-12
Pioneer 9761.....	52.2	1.0	-	32	10-14
Riverside 757.....	53.1	1.0	-	34	10-16
Stonewall.....	38.5	1.0	-	26	10-13
Thomas.....	43.1	1.0	-	27	10-16
Vigoro V 713.....	45.3	1.0	-	26	10-15
<u>Maturity Group VIII</u>					
Cook.....	45.7	1.0	-	33	10-25
Pioneer 9831.....	56.2	1.0	-	30	10-24
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Test Means.....	42.9	1.0	-	28	
L.S.D. (.05).....	8.4				
C.V.(%).....	14.1				

Table 12. Performance of Soybean Varieties at Brewton, Alabama, 3-Year Summary, 1992-94

Brand-Variety	Yield Per Acre			3-Year Average			Maturity Date
	1994	2-Yr. Av.	3-Yr. Av.	Lodging	Shattering	Plant Height	
	Bu.	Bu.	Bu.	Score	Score	In.	
Maturity Group V							
Hutcheson.....	35.8	42.4	47.7	0.8	1.0	23	9-26
Hy Performer HSC591.....	35.1	35.6	40.9	1.1	0.0	32	10-1
Buckshot 507.....	32.0	37.1	-	-	-	-	-
Stone.....	32.3	36.0	-	-	-	-	-
Buckshot 55.....	32.4	34.2	-	-	-	-	-
Holladay.....	16.9	26.6	-	-	-	-	-
Deltapine 3589.....	41.1	-	-	-	-	-	-
Dyna-Grow 3542.....	37.4	-	-	-	-	-	-
Dyna-Grow 3576.....	31.2	-	-	-	-	-	-
Maturity Group VI							
Deltapine DP3627.....	53.3	49.7	50.9	0.8	0.0	29	10-5
Buckshot 66.....	52.2	48.8	50.4	1.0	-	34	10-9
Deltapine DPX 3682.....	49.9	46.8	49.8	1.1	0.0	30	10-10
Young.....	44.0	43.6	48.4	1.3	0.0	32	10-5
Bryan.....	49.5	46.0	46.7	1.0	-	31	10-8
Terra-Vig 6653.....	35.7	37.9	43.5	1.0	0.0	27	10-10
Hy Performer HSC B2J....	39.9	38.8	42.6	1.0	0.0	29	10-4
Pioneer 9641.....	34.9	37.9	-	-	-	-	-
Hy Performer HY 677.....	48.2	-	-	-	-	-	-
Deltapine DPX 3606.....	47.8	-	-	-	-	-	-
Pioneer 9692.....	46.9	-	-	-	-	-	-
Dyna-Gro 3682.....	44.8	-	-	-	-	-	-
Riverside 699.....	30.8	-	-	-	-	-	-
Riverside Cajun.....	30.4	-	-	-	-	-	-
Maturity Group VII							
Pioneer 9761.....	52.2	51.3	52.6	1.0	-	32	10-13
Deltapine 3733.....	51.4	48.5	50.3	1.0	-	29	10-11
Hagood.....	48.6	45.5	49.7	1.5	-	36	10-17
Braxton.....	50.9	48.1	49.6	1.0	-	34	10-14
Buckshot 723.....	45.4	44.3	48.3	1.5	-	35	10-17
Carver.....	41.0	43.7	47.7	1.0	-	29	10-10
Pioneer 9711.....	46.2	43.3	45.6	1.2	-	31	10-12
Stonewall.....	38.5	39.8	44.7	1.0	-	29	10-11
Thomas.....	43.1	40.2	44.1	1.0	-	30	10-14
Hy Performer HSC-721....	40.8	38.7	43.5	1.5	-	32	10-12
Haskell.....	55.9	53.4	-	-	-	-	-
Northrup King S75-55....	53.3	-	-	-	-	-	-
Riverside 757.....	53.1	-	-	-	-	-	-
Deltapine 417.....	46.0	-	-	-	-	-	-
Vigoro V 713.....	45.3	-	-	-	-	-	-
Maturity Group VIII							
Cook.....	45.7	47.0	50.6	1.1	-	34	10-20
Pioneer 9831.....	56.2	52.1	-	-	-	-	-
Test Means.....	42.9	42.9	47.4	1.1	0.1	31	
L.S.D. (.05).....	8.4	7.1	6.6				
C.V. (%).....	14.1	11.8	10.0				

The planting date for 1-year, 2-year, and 3-year averages was May 19, May 21, and June 2, respectively.

Table 13. Performance of Soybean Varieties at Fairhope, Alabama, 1994

Brand-Variety	Yield Per Acre Bu.	Average		Plant Height In.	Maturity Date
		Lodging Score	Shattering Score		
<u>Maturity Group V</u>					
Dyna-Grow 3576.....	55.8	1.0	1.0	28	9-19
Northrup King S59-60....	53.5	2.0	1.0	33	9-20
Hartz H5545.....	50.6	1.3	1.3	35	9-15
Stone.....	49.2	1.5	1.0	37	9-22
Hartz 5164.....	48.8	1.5	1.0	38	9-22
Buckshot 55.....	48.7	1.5	1.0	34	9-19
Hutcheson.....	48.1	1.3	1.5	30	9-16
Buckshot 507.....	48.0	2.5	1.0	39	9-21
Holladay.....	46.8	1.0	1.5	30	9-12
Dyna-Grow 3542.....	44.3	3.2	1.0	42	9-22
Deltapine 3589.....	43.4	2.2	1.0	48	9-23
Hy Performer HSC591.....	43.1	2.7	1.0	42	9-25
<u>Maturity Group VI</u>					
Deltapine DP3627.....	54.7	1.0	1.0	41	9-25
Asgrow A 6961.....	54.0	1.0	1.0	39	9-30
Hartz 6686.....	52.6	1.3	1.0	36	9-29
Bryan.....	49.2	1.3	1.0	40	10-2
Buckshot 66.....	48.7	1.3	1.0	45	10-3
Northrup King S62-66....	47.3	1.8	1.0	35	9-26
Hy Performer HSC B2J....	46.8	1.0	1.0	37	9-23
Riverside 699.....	46.3	1.3	1.0	38	9-27
Deltapine DPX 3606.....	45.5	2.2	1.0	39	9-23
Deltapine DPX 3682.....	44.8	1.0	1.0	38	9-27
Hy Performer HY 677.....	44.5	1.0	1.0	39	9-30
Dyna-Gro 3682.....	44.2	1.0	1.0	37	9-27
Young.....	44.2	2.2	1.5	43	9-25
<u>Maturity Group VII</u>					
Haskell.....	56.8	1.5	1.0	42	10-8
Deltapine 3733.....	52.6	1.3	1.0	38	10-4
Northrup King S75-55....	49.8	1.0	1.0	41	10-3
Hartz H 7141.....	49.3	1.8	1.0	40	10-8
Hy Performer HB3-X798...	48.0	1.3	1.0	34	10-8
Stonewall.....	47.8	1.0	1.0	38	9-29
Riverside 757.....	47.1	1.8	1.0	47	10-8
Vigoro V 713.....	45.6	1.0	1.0	37	10-2
Braxton.....	44.2	1.0	1.0	46	10-9
Buckshot 723.....	43.5	1.3	1.0	43	10-8
Carver.....	43.3	1.5	1.0	35	9-27
Ransom.....	42.1	1.3	1.0	40	10-2
Hy Performer HSC-721....	41.0	2.7	1.3	40	9-30
Hartz H 7440.....	40.9	2.5	1.0	47	10-9
Thomas.....	40.8	1.0	1.0	41	10-4
Hagood.....	38.6	2.0	1.0	46	10-11
Deltapine 417.....	31.5	1.8	1.3	48	10-7
<u>Maturity Group VIII</u>					
Cook.....	43.8	1.3	1.0	43	10-7
Johnston.....	41.5	1.5	1.0	40	10-8
Pioneer 9831.....	41.1	2.0	1.0	42	10-8
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Test Means.....	46.5	1.5	1.1	39	
L.S.D. (.05).....	6.3				
C.V. (%).....	9.7				

Table 14. Performance of Soybean Varieties at Fairhope, Alabama, 3-Year Summary, 1992-94

Brand-Variety	Yield Per Acre			3-Year Average			Maturity Date
	1994	2-Yr. Av.	3-Yr. Av.	Lodging	Shattering	Plant Height	
	Bu.	Bu.	Bu.	Score	Score	In.	
<u>Maturity Group V</u>							
Holladay.....	46.8	44.6	49.1	1.0	1.2	27	9-21
Hutcheson.....	48.1	44.6	48.5	1.1	1.2	29	9-24
Hartz 5164.....	48.8	45.5	46.4	2.2	1.0	36	9-28
Hy Performer HSC591.....	43.1	41.1	45.0	2.2	1.0	38	10-1
Northrup King S59-60.....	53.5	47.0	-	-	-	-	-
Buckshot 507.....	48.0	44.6	-	-	-	-	-
Stone.....	49.2	44.3	-	-	-	-	-
Buckshot 55.....	48.7	43.8	-	-	-	-	-
Dyna-Grow 3576.....	55.8	-	-	-	-	-	-
Hartz H5545.....	50.6	-	-	-	-	-	-
Dyna-Grow 3542.....	44.3	-	-	-	-	-	-
Deltapine 3589.....	43.4	-	-	-	-	-	-
<u>Maturity Group VI</u>							
Deltapine DP3627.....	54.7	48.7	47.8	1.8	1.0	38	10-1
Hartz 6686.....	52.6	47.7	47.7	1.6	1.0	36	10-7
Deltapine DPX 3682.....	44.8	45.7	46.7	1.5	1.0	37	10-4
Hy Performer HSC B2J.....	46.8	44.8	46.3	1.2	1.0	37	9-29
Bryan.....	49.2	46.6	46.0	1.2	1.0	39	10-7
Northrup King S62-66.....	47.3	45.7	45.6	2.2	1.0	33	9-30
Young.....	44.2	43.1	44.6	2.4	1.2	40	9-30
Buckshot 66.....	48.7	46.6	-	-	-	-	-
Asgrow A 6961.....	54.0	-	-	-	-	-	-
Riverside 699.....	46.3	-	-	-	-	-	-
Deltapine DPX 3606.....	45.5	-	-	-	-	-	-
Hy Performer HY 677.....	44.5	-	-	-	-	-	-
Dyna-Gro 3682.....	44.2	-	-	-	-	-	-
<u>Maturity Group VII</u>							
Deltapine 3733.....	52.6	49.8	49.1	1.2	1.0	37	10-8
Carver.....	43.3	42.7	44.6	1.2	1.0	37	10-4
Braxton.....	44.2	43.3	44.3	1.2	1.0	43	10-11
Stonewall.....	47.8	45.7	44.0	1.4	1.0	38	10-5
Buckshot 723.....	43.5	42.6	43.9	1.6	1.0	43	10-12
Hagood.....	38.6	40.7	41.1	1.8	1.0	42	10-14
Thomas.....	40.8	42.6	40.8	1.3	1.0	39	10-9
Ransom.....	42.1	40.9	40.5	1.3	1.0	39	10-8
Hy Performer HSC-721.....	41.0	39.9	39.4	2.7	1.1	37	10-6
Haskell.....	56.8	49.6	-	-	-	-	-
Hartz H 7141.....	49.3	47.0	-	-	-	-	-
Northrup King S75-55.....	49.8	-	-	-	-	-	-
Hy Performer HB3-X798.....	48.0	-	-	-	-	-	-
Riverside 757.....	47.1	-	-	-	-	-	-
Vigoro V 713.....	45.6	-	-	-	-	-	-
Hartz H 7440.....	40.9	-	-	-	-	-	-
Deltapine 417.....	31.5	-	-	-	-	-	-
<u>Maturity Group VIII</u>							
Cook.....	43.8	45.6	46.4	1.6	1.0	40	10-12
Pioneer 9831.....	41.1	42.3	41.2	2.2	1.0	39	10-14
Johnston.....	41.5	40.7	41.1	2.2	1.0	38	10-14
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Test Means.....	46.5	44.6	44.8	1.6	1.0	37	
L.S.D. (.05).....	6.3	5.4	5.4				
C.V. (%).....	9.7	5.9	6.5				

The planting date for 1-year, 2-year, and 3-year averages was June 1, June 15, and June 11, respectively.

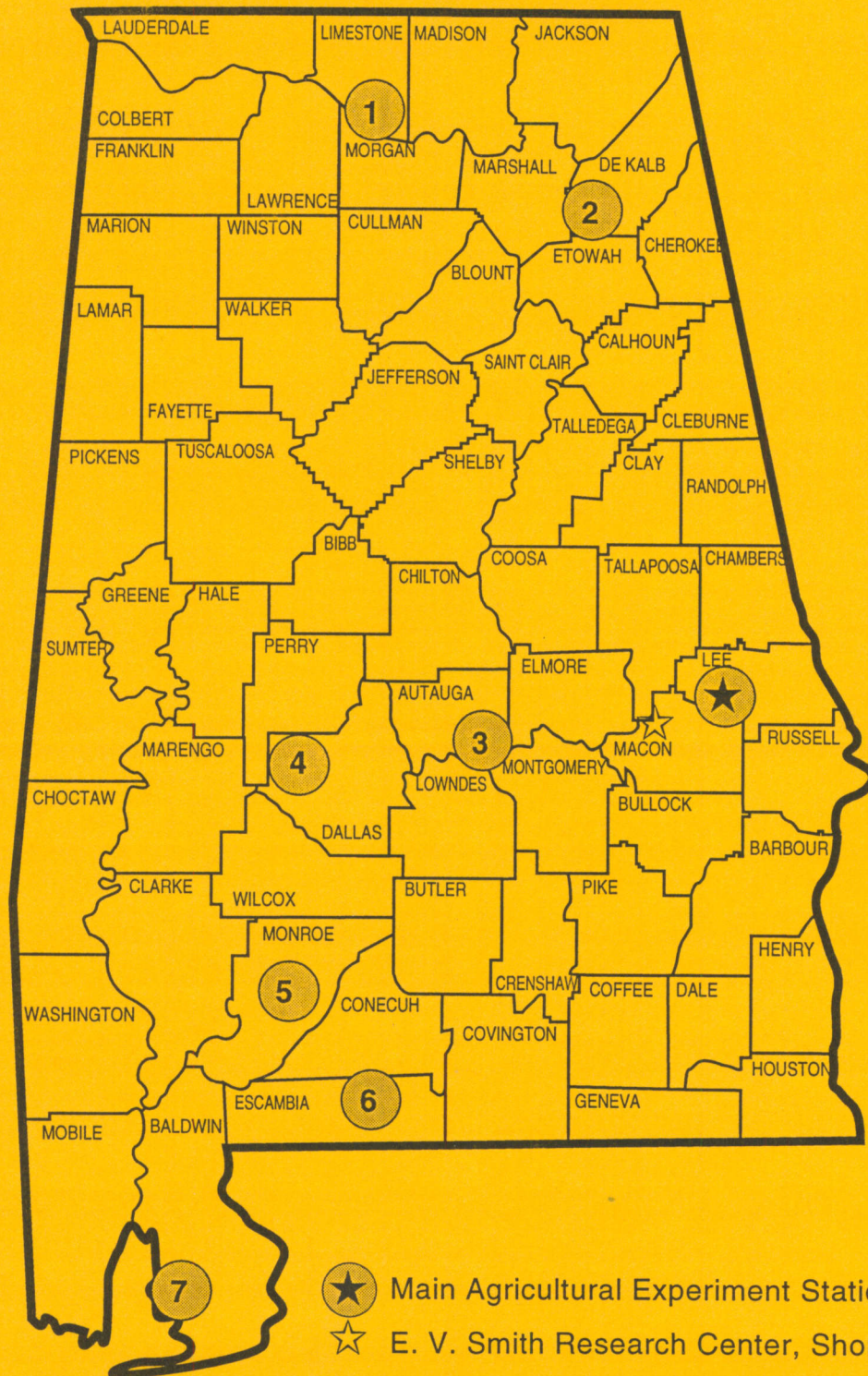
Table 15. Performance of Very Early Planted Soybean Varieties at Brewton, Alabama, 1994

Brand-Variety	Yield Per Acre Bu.	Average		Plant Height In.	Maturity Date
		Lodging Score	Shattering Score		
<u>Maturity Group V</u>					
Deltapine 105.....	39.0	1.0	-	29	9-26
Deltapine 3589.....	38.7	1.0	-	36	10-3
Hutcheson.....	36.6	1.0	-	24	9-30
Deltapine 415.....	34.8	1.0	-	25	9-26
Essex.....	25.4	1.0	-	21	10-3
Holladay.....	22.1	1.0	-	25	10-3
<u>Maturity Group VI</u>					
Young.....	51.8	1.0	-	34	10-7
Deltapine DPX 3606.....	51.0	1.0	-	28	10-4
Leflore.....	48.7	1.0	-	24	10-9
Bryan.....	45.2	1.0	-	24	10-9
<u>Maturity Group VII</u>					
Haskell.....	50.7	1.0	-	26	10-15
Carver.....	42.6	1.0	-	20	10-11
Stonewall.....	38.3	1.0	-	22	10-10
Test Means.....	40.4	1.0	-	26	
L.S.D. (.05).....	10.8				
C.V. (%).....	18.7				

Table 16. Performance of Soybean Varieties in Preliminary Tests, 1994

Brand-Variety	Yield Per Acre		
	Northern (Belle Mina) Bu.	Central (Prattville) Bu.	Southern (Monroeville) Bu.
<u>Group IV</u>			
Asgrow A 4715.....	35.6	37.5	19.1
Buckshot 44.....	31.0	24.6	21.2
Dyna-Gro 3495.....	28.4	31.2	23.6
Riverside 499.....	35.4	22.0	20.6
Riverside 91-46.....	38.6	-	-
<u>Group V</u>			
Asgrow A 5885.....	48.7	39.5	-
Clifford.....	50.0	54.7	26.5
Deltapine DPX 3561.....	44.8	-	-
Deltapine DPX 3570.....	46.9	-	-
Deltapine DPX 3588.....	49.1	-	-
Hartz H5088.....	-	46.8	-
Hutcheson.....	50.7	53.3	28.7
Hy Performer HY574.....	46.1	49.2	-
Northrup King S57-11.....	52.4	-	-
<u>Group VI</u>			
AU 89-1424.....	-	-	36.1
AU 90-442.....	49.6	55.8	35.2
AU 90-585.....	44.9	58.0	30.6
AU 90-592.....	46.9	54.9	32.3
Asgrow A 6711.....	-	46.7	28.7
Hartz H6255.....	53.5	57.1	40.0
Hartz HX613219.....	45.2	57.8	30.6
Hartz HX63245.....	43.2	48.0	28.2
Hy Performer HY 683.....	47.8	49.0	-
Northrup King S66-90.....	47.4	51.4	-
Young.....	41.0	50.2	34.9
Test Means.....	44.4	46.7	29.1
L.S.D. (0.05).....	6.5	7.0	4.8
C.V. (%).....	10.4	10.6	11.6

Locations of Participating Research Units



★ Main Agricultural Experiment Station, Auburn.

☆ E. V. Smith Research Center, Shorter.

1. Tennessee Valley Substation, Belle Mina.
2. Sand Mountain Substation, Crossville.
3. Prattville Experiment Field, Prattville.
4. Black Belt Substation, Marion Junction.
5. Monroeville Experiment Field, Monroeville.
6. Brewton Experiment Field, Brewton.
7. Gulf Coast Substation, Fairhope.