



PERFORMANCE
OF
SOYBEAN
VARIETIES
IN ALABAMA,
1995

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TABLE OF CONTENTS

	<i>Page</i>
INTRODUCTION	1
EXPERIMENTAL PROCEDURES	1
SEASONAL CONDITIONS	2
COMPARING VARIETIES	3
ACKNOWLEDGEMENTS	4
TABLE 1. ENTRIES AND SOURCES FOR 1995	5
TABLE 2. CULTURAL PRACTICES FOR SOYBEAN VARIETY TESTS IN 1995	7
TABLE 3. RAINFALL AT TEST LOCATIONS DURING GROWING SEASON, 1995	8
TABLE 4. SOIL TYPES FOR SOYBEAN TESTS, 1995	9
TABLE 5. PERFORMANCE OF SOYBEAN VARIETIES IN NORTHERN ALABAMA, 1995	10
TABLE 6. PERFORMANCE OF SOYBEAN VARIETIES IN NORTHERN ALABAMA, 3-YEAR SUMMARY, 1993-95	11
TABLE 7. PERFORMANCE OF SOYBEAN VARIETIES AT PRATTVILLE, ALABAMA, 1995	12
TABLE 8. PERFORMANCE OF SOYBEAN VARIETIES AT PRATTVILLE, ALABAMA, 3-YEAR SUMMARY, 1993-95	13
TABLE 9. PERFORMANCE OF SOYBEAN VARIETIES ON SUMTER SOIL, MARION JUNCTION, ALABAMA, 1995	14
TABLE 10. PERFORMANCE OF SOYBEAN VARIETIES ON SUMTER SOIL, MARION JUNCTION, ALABAMA, 3-YEAR SUMMARY, 1992-93 AND 1995	15
TABLE 11. PERFORMANCE OF SOYBEAN VARIETIES ON VAIDEN SOIL, MARION JUNCTION, ALABAMA, 1995	16
TABLE 12. PERFORMANCE OF SOYBEAN VARIETIES ON VAIDEN SOIL, MARION JUNCTION, ALABAMA, 3-YEAR SUMMARY, 1993-95	17

Con't

TABLE 13. PERFORMANCE OF SOYBEAN VARIETIES AT BREWTON, ALABAMA, 1995	18
TABLE 14. PERFORMANCE OF SOYBEAN VARIETIES AT BREWTON, ALABAMA, 3-YEAR SUMMARY, 1993-95	19
TABLE 15. PERFORMANCE OF SOYBEAN VARIETIES AT FAIRHOPE, ALABAMA, 1995	20
TABLE 16. PERFORMANCE OF SOYBEAN VARIETIES AT FAIRHOPE, ALABAMA, 3-YEAR SUMMARY, 1993-95	21
TABLE 17. PERFORMANCE OF EARLY PLANTED SOYBEAN VARIETIES AT BREWTON, ALABAMA, 1995	22
TABLE 18. PERFORMANCE OF SOYBEAN VARIETIES IN PRELIMINARY TESTS, 1995	23

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

PERFORMANCE OF SOYBEAN VARIETIES IN ALABAMA, 1995

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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:

Region	Location
Northern	Belle Mina, Crossville
Central	Prattville
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

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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 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. In 1995, all standard tests were planted at normal planting dates. 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. In early August, Hurricane Erin caused some lodging to all varieties at Fairhope.

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 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.

ACKNOWLEDGEMENTS

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
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 Division, Discrete and Statistical Sciences, for the computation and analysis of the data in this report.

TABLE 1. ENTRIES AND SOURCES FOR 1995

Alabama Crop Imp. Assoc. Auburn, Alabama	Carver Essex Hutcheson Stonewall Young F-90-5099 F-91-1577
American Cyanamid Starkville, Mississippi	CB 5691
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	Au91-13 Au91-158 Au91-788
Escambia Farm and Seed Co. Atmore, Alabama	Braxton Centennial Leflore Thomas
Georgia Seed Development Commission Athens, Georgia	Bryan Cook Doles Haskell Wright
Hornbeck Seed Company, Inc. DeWitt, Arkansas	Hornbeck brand varieties HBK
Hy Performer Seed Company Memphis, Tennessee	Hy Performer brand varieties HSC, HY
Jacob Hartz Seed Company, Inc. Suttgart, Arkansas	Hartz brand varieties RR - designates Roundup Ready varieties

(Continued on following page)

TABLE 1 (CONTINUED). ENTRIES AND SOURCES FOR 1995

Northrup King Co. Highland, Illinois	S57-11 S59-60 S59-95 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
United Agri-Products Athens, Alabama	Dyna-Gro brand varieties
University of Missouri Portageville, Missouri	Hartwig
University of Tennessee Knoxville, Tennessee	TN 4-86 TN 4-94

TABLE 2. CULTURAL PRACTICES FOR SOYBEAN VARIETY TESTS IN 1995

Location	Type test	Date planted	Row width	Herbicide used	Fertilizer applied
Belle Mina	Standard	May 12	30	Treflan, Scepter	none recommended
	Preliminary	May 12	30	Treflan, Scepter	none recommended
Crossville	Standard	May 12	30	Scepter, Dual	70 lb. 0-45-0/acre + 70 lb. 0-0-60/acre
Prattville	Standard	May 31 & June 2	30	Prowl, Classic	100 lb. 0-0-60/acre
	Preliminary	June 5	30	Prowl, Classic	100 lb. 0-0-60/ acre
Marion Junction	Standard (Sumter)	June 5	36	Prowl, Blazer/ Basagran	200 lb. 0-24-12/acre
	Standard (Vaiden)	June 6	36	Prowl, Scepter	none recommended
Brewton	Early	April 28	36	Treflan, Vernam	none recommended
	Standard	June 12	36	Dual	none recommended
Monroeville . . .	Preliminary	June 8	36	Dual, Sencor	none recommended
Fairhope	Standard	June 6	30	Dual, 2,4-DB	250 lb. 0-32-16/acre

TABLE 3. RAINFALL AT TEST LOCATIONS DURING GROWING SEASON, 1995

Month	Days	Belle Mina <i>In.</i>	Crossville <i>In.</i>	Prattville <i>In.</i>	Marion Junction <i>In.</i>	Brewton <i>In.</i>	Fairhope <i>In.</i>
May.....	1-5	0.80	0.90	0.02	0.15	0.03	0.00
	6-10	0.01	0.15	0.38	0.00	4.44	4.25
	11-15	0.38	0.06	0.00	0.00	1.20	0.86
	16-20	0.29	0.16	0.68	0.05	0.00	0.13
	21-25	0.00	0.00	0.00	0.00	0.00	0.00
	26-31	<u>0.34</u>	<u>0.21</u>	<u>0.88</u>	<u>1.09</u>	<u>2.62</u>	<u>0.80</u>
		1.82	1.48	1.96	1.29	8.29	6.04
June.....	1-5	1.24	0.28	0.87	1.37	1.72	2.62
	6-10	0.58	0.73	0.00	0.02	0.23	0.00
	11-15	0.34	1.65	0.08	0.00	0.62	0.23
	16-20	0.52	0.27	0.07	0.00	0.00	0.10
	21-25	0.01	0.41	0.11	0.00	0.04	0.01
	26-30	<u>0.03</u>	<u>0.09</u>	<u>1.03</u>	<u>0.00</u>	<u>0.25</u>	<u>1.57</u>
		2.72	3.43	2.16	1.39	2.86	4.53
July.....	1-5	0.95	1.09	0.27	0.10	1.16	1.38
	6-10	0.15	0.00	0.02	0.80	0.42	1.89
	11-15	0.00	0.00	0.00	0.00	1.25	1.75
	16-20	0.00	0.00	0.21	0.01	1.46	0.31
	21-25	1.02	1.02	0.21	0.46	1.86	0.85
	26-31	<u>0.86</u>	<u>0.38</u>	<u>0.73</u>	<u>0.00</u>	<u>1.70</u>	<u>2.47</u>
		2.98	2.49	1.44	1.37	7.85	8.65
August.....	1-5	0.11	0.62	0.42	4.50	7.93	5.80
	6-10	1.52	5.34	1.24	0.20	0.13	0.43
	11-15	1.23	0.14	0.37	0.00	0.17	1.19
	16-20	0.00	0.00	0.21	0.35	1.24	2.04
	21-25	0.83	1.35	0.04	0.10	0.10	0.15
	26-31	<u>0.02</u>	<u>0.34</u>	<u>0.00</u>	<u>0.15</u>	<u>0.57</u>	<u>0.00</u>
		3.71	7.79	2.28	5.30	10.14	9.61
September..	1-5	0.00	0.02	0.10	0.00	0.12	0.62
	6-10	0.00	0.00	0.00	0.00	0.16	0.69
	11-15	2.00	1.24	0.96	3.47	1.56	0.33
	16-20	1.44	0.93	0.48	0.00	0.12	1.32
	21-25	4.16	1.84	1.23	2.88	0.00	0.09
	26-30	<u>0.00</u>	<u>0.04</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
		7.60	4.07	2.77	6.35	1.96	3.05
October.....	1-5	5.03	6.04	8.67	5.82	19.42	11.83
	6-10	0.04	0.17	0.03	0.05	0.00	0.00
	11-15	0.20	0.14	0.01	1.32	0.00	0.00
	16-20	0.00	0.00	0.00	0.00	0.00	0.00
	21-25	0.44	0.07	0.00	0.20	0.05	0.09
	26-31	<u>1.25</u>	<u>1.47</u>	<u>1.76</u>	<u>1.41</u>	<u>0.51</u>	<u>0.30</u>
		6.96	7.89	10.47	8.80	19.98	12.22

TABLE 4. SOIL TYPES FOR SOYBEAN TESTS, 1995

Test location	Soil type
Belle Mina	Emory silt loam
Crossville	Wynnville 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, 1995

Brand-Variety	Yield Per Acre		Regional Average			Maturity date
	Belle Mina	Crossville	Lodging	Shattering	Plant height	
	Bu.	Bu.	Score	Score	In.	
Maturity Group IV						
Deltapine DP 3478.....	27.2	36.6	1.3	1.6	32	9-29
Dyna-Gro 3495.....	28.9	43.6	2.6	1.3	41	9-24
Hartz H 4994.....	32.8	40.4	3.1	1.1	35	9-18
Hornbeck HBK 49.....	32.1	41.6	2.5	1.5	42	9-23
Riverside 499.....	29.9	39.3	2.5	1.4	42	9-21
TN 4-86.....	20.3	33.6	1.4	1.5	36	9-17
TN 4-94.....	19.1	38.6	1.5	2.0	39	9-27
Maturity Group V						
Buckshot 55.....	39.4	42.4	2.9	1.0	38	10-3
Clifford.....	40.0	37.9	2.3	1.5	33	10-3
Deltapine 105.....	36.2	40.4	2.0	1.4	40	10-1
Deltapine 415.....	41.0	46.3	2.0	1.0	40	10-3
Dyna-Gro 3576.....	41.0	46.7	2.6	1.1	35	10-2
Essex.....	42.5	39.9	1.5	1.3	31	10-1
Hartz 5164.....	32.4	37.3	2.0	1.1	42	10-3
Hartz H5350.....	39.5	43.2	2.5	1.0	36	10-2
Hartz H5566RR.....	34.2	41.2	2.8	1.3	39	10-2
Holladay.....	43.0	43.7	1.3	1.4	30	10-1
Hutcheson.....	42.5	46.7	1.9	1.3	35	10-1
Hy Performer HSC591...	31.7	41.3	1.9	1.0	41	10-9
Hy Performer HY574...	40.4	46.9	2.3	1.1	38	10-3
Northrup King S57-11...	35.9	37.1	2.3	1.1	40	9-27
Northrup King S59-60...	33.7	38.4	2.6	1.3	37	10-5
Pioneer 9551.....	29.9	39.0	2.0	1.5	37	9-28
Pioneer 9584.....	41.8	47.3	2.0	1.0	38	10-2
Riverside 529I.....	33.9	33.9	2.6	1.3	41	9-29
Riverside 549.....	45.6	36.4	2.4	1.0	35	10-1
Maturity Group VI						
Brim.....	43.3	50.6	1.9	1.0	39	10-13
Dillion.....	44.6	51.5	1.6	1.0	43	10-9
Doles.....	40.7	46.4	2.1	1.0	38	10-16
Dyna-Gro 3682.....	27.7	45.2	2.6	1.0	40	10-25
Hartz 6686RR.....	28.3	47.6	1.6	1.0	39	10-21
Hartz H6062.....	36.8	43.2	1.9	1.0	44	10-15
Hartz H6255.....	37.0	56.7	2.5	1.3	42	10-18
Hy Performer HSC B2J...	29.7	43.7	2.4	1.0	42	10-9
Hy Performer HY 677...	38.2	48.0	1.5	1.0	38	10-21
Leflore.....	26.8	43.7	2.0	1.0	43	10-21
Northrup King S62-66...	37.4	48.7	2.8	1.4	39	10-10
Northrup King S66-90...	20.7	50.4	1.9	1.3	40	10-13
Pioneer 9611.....	33.2	48.9	2.3	1.1	43	10-5
Pioneer 9641.....	37.3	51.6	2.4	1.1	40	10-11
Pioneer 9692.....	34.1	47.8	1.1	1.0	39	10-23
Young.....	32.1	50.1	2.6	1.3	41	10-9
Maturity Group VII						
Braxton.....	16.2	45.7	2.0	1.0	44	10-28
Carver.....	20.7	48.2	2.3	1.0	40	10-21
Haskell.....	20.3	48.5	2.3	1.0	41	10-28
Stonewall.....	33.2	49.2	2.3	1.0	39	10-24
Test Means.....	33.8	44.0	2.1	1.2	39	
L.S.D. (.05).....	7.9	5.9				
C.V. (%).....	16.8	9.6				

TABLE 6. PERFORMANCE OF SOYBEAN VARIETIES IN NORTHERN ALABAMA, 3-YEAR SUMMARY, 1993-95

Brand-Variety	Yield Per Acre			3-Year Average			Maturity date
	1995	2-Yr. Av.	3-Yr. Av.	Lodging	Shattering	Plant height	
	Bu.	Bu.	Bu.	Score	Score	In.	
Maturity Group IV							
Hornbeck HBK 49.....	36.8	-	-	-	-	-	-
Hartz H 4994.....	36.6	-	-	-	-	-	-
Dyna-Gro 3495.....	36.3	-	-	-	-	-	-
Riverside 499.....	34.6	-	-	-	-	-	-
Deltapine DP 3478.....	31.9	-	-	-	-	-	-
TN 4-94.....	28.8	-	-	-	-	-	-
TN 4-86.....	26.9	-	-	-	-	-	-
Maturity Group V							
Hartz H5350.....	41.4	47.0	44.9	1.6	1.0	33	9-29
Buckshot 55.....	40.9	45.2	43.9	2.0	1.0	34	9-28
Deltapine 415.....	43.6	45.4	43.8	1.5	1.0	34	9-27
Hartz H5566RR.....	37.7	43.3	42.2	1.8	1.1	35	9-30
Northrup King S59-60.....	36.0	44.4	42.2	2.2	1.1	34	9-29
Hartz 5164.....	34.8	42.9	41.4	1.8	1.1	37	10-1
Hutcheson.....	44.6	44.5	41.2	1.5	1.1	31	9-27
Hy Performer HSC591.....	36.5	40.4	39.1	1.6	1.0	40	10-8
Pioneer 9551.....	34.4	40.0	39.0	1.4	1.2	32	9-22
Holladay.....	43.4	37.5	37.1	1.1	1.2	26	9-23
Deltapine 105.....	38.3	38.2	36.2	1.8	1.2	35	9-27
Essex.....	41.2	37.2	35.4	1.2	1.1	27	9-23
Pioneer 9584.....	44.5	45.6	-	-	-	-	-
Dyna-Grow 3576.....	43.9	42.1	-	-	-	-	-
Hy Performer HY574.....	43.6	-	-	-	-	-	-
Riverside 549.....	41.0	-	-	-	-	-	-
Clifford.....	38.9	-	-	-	-	-	-
Northrup King S57-11.....	36.5	-	-	-	-	-	-
Riverside 529I.....	33.9	-	-	-	-	-	-
Maturity Group VI							
Northrup King S62-66.....	43.0	46.7	44.3	2.3	1.2	35	10-5
Leflore.....	35.3	39.0	38.9	1.5	1.0	40	10-14
Brim.....	47.0	39.4	38.9	1.4	1.0	38	10-7
Hy Performer HSC B2J.....	36.7	38.3	37.8	1.7	1.0	39	10-6
Pioneer 9641.....	44.4	38.6	36.3	1.7	1.1	36	10-6
Hartz 6686RR.....	37.9	35.3	35.4	1.3	1.0	37	10-15
Young.....	41.1	35.7	34.0	1.8	1.1	39	10-7
Pioneer 9692.....	41.0	42.3	-	-	-	-	-
Doles.....	43.5	41.8	-	-	-	-	-
Dyna-Gro 3682.....	36.4	40.0	-	-	-	-	-
Dillion.....	48.0	-	-	-	-	-	-
Hartz H6255.....	46.9	-	-	-	-	-	-
Hy Performer HY 677.....	43.1	-	-	-	-	-	-
Pioneer 9611.....	41.1	-	-	-	-	-	-
Hartz H6062.....	40.0	-	-	-	-	-	-
Northrup King S66-90.....	35.6	-	-	-	-	-	-
Maturity Group VII							
Carver.....	34.4	37.9	39.5	1.5	1.0	37	10-14
Stonewall.....	41.2	39.2	39.3	1.5	1.0	37	10-15
Haskell.....	34.4	31.9	32.6	1.8	1.0	38	10-20
Braxton.....	30.9	27.7	28.7	1.4	1.0	41	10-21
Test Means.....	38.9	40.3	38.8	1.6	1.1	35	
L.S.D. (.05).....	7.0						
C.V. (%).....	12.9						

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

TABLE 7. PERFORMANCE OF SOYBEAN VARIETIES AT PRATTVILLE, ALABAMA, 1995

Brand-Variety	Yield per acre	Average			
		Lodging	Shattering	Plant height	Maturity date
	Bu.	Score	Score	In.	
Maturity Group V					
Buckshot 55.....	19.9	1.0	1.0	20	10-15
Clifford.....	18.8	1.0	2.0	17	10-9
Deltapine 105.....	22.2	1.0	1.0	23	10-10
Deltapine 3589.....	21.6	1.0	1.0	23	10-14
Deltapine 415.....	23.6	1.0	1.0	18	10-13
Deltapine DPX 3588.....	21.3	1.0	1.0	22	10-17
Holladay.....	23.2	1.0	1.3	18	10-7
Hutcheson.....	20.6	1.0	1.0	20	10-11
Hy Performer HSC591.....	24.7	1.0	1.0	21	10-14
Hy Performer HY574.....	19.0	1.0	1.0	18	10-9
Maturity Group VI					
Brim.....	26.3	1.0	1.0	25	10-22
Bryan.....	21.4	1.0	1.0	22	10-21
Buckshot 66.....	22.1	1.0	1.0	25	10-21
Deltapine DP 3606.....	25.5	1.0	1.0	21	10-18
Deltapine DP 3682.....	23.7	1.0	1.0	21	10-18
Deltapine DP3627.....	22.0	1.0	1.0	19	10-15
Dillion.....	25.5	1.0	1.0	22	10-17
Dyna-Gro 3682.....	24.2	1.0	1.0	22	10-26
Leflore.....	19.6	1.0	1.0	22	10-16
Northrup King S66-90.....	26.5	1.0	1.0	20	10-17
Pioneer 9611.....	27.0	1.0	1.0	21	10-13
Pioneer 9641.....	21.9	1.0	1.0	21	10-19
Pioneer 9692.....	27.8	1.0	1.0	23	10-24
Young.....	27.7	1.0	1.0	24	10-18
Maturity Group VII					
Buckshot 723.....	24.6	1.0	1.0	26	10-27
Carver.....	25.5	1.0	1.0	22	10-25
Deltapine 3733.....	22.5	1.0	1.0	23	10-25
Haskell.....	24.5	1.0	1.0	23	10-27
Pioneer 9711.....	23.3	1.0	1.0	23	10-28
Pioneer 9761.....	25.6	1.0	1.0	26	10-27
Stonewall.....	24.0	1.0	1.0	23	10-27
Thomas.....	23.6	1.0	1.0	22	10-27
Wright.....	23.1	1.0	1.0	25	10-26
Test Means.....	23.4	1.0	1.0	22	
L.S.D. (.05).....	4.8				
C.V. (%).....	14.6				

TABLE 8. PERFORMANCE OF SOYBEAN VARIETIES AT PRATTVILLE, ALABAMA, 3-YEAR SUMMARY, 1993-95

Brand-Variety	Yield Per Acre			3-Year Average			
	1995	2-Yr. Av.	3-Yr. Av.	Lodging	Shattering	Plant height	Maturity date
	Bu.	Bu.	Bu.	Score	Score	In.	
Maturity Group V							
Hutcheson.....	20.6	31.3	29.7	1.0	1.0	20	10-1
Hy Performer HSC591.....	24.7	30.4	27.9	1.0	1.0	25	10-10
Deltapine 415.....	23.6	32.5	27.8	1.0	1.0	19	10-1
Deltapine 105.....	22.2	29.9	24.8	1.0	1.0	23	10-2
Holladay.....	23.2	30.2	24.1	1.0	1.2	17	9-25
Buckshot 55.....	19.9	23.9	22.2	1.0	1.0	20	10-3
Deltapine 3589.....	21.6	-	-	-	-	-	-
Deltapine DPX 3588.....	21.3	-	-	-	-	-	-
Hy Performer HY574.....	19.0	-	-	-	-	-	-
Clifford.....	18.8	-	-	-	-	-	-
Maturity Group VI							
Brim	26.3	38.3	34.2	1.0	1.0	28	10-13
Young.....	27.7	35.1	29.8	1.0	1.0	27	10-11
Pioneer 9641.....	21.9	30.6	27.7	1.0	1.0	25	10-11
Deltapine DP3627.....	22.0	31.8	27.6	1.0	1.0	22	10-11
Buckshot 66	22.1	28.6	26.6	1.1	1.0	29	10-16
Leflore.....	19.6	23.4	23.7	1.0	1.0	26	10-13
Deltapine DP 3682.....	23.7	25.7	22.7	1.0	1.0	25	10-15
Bryan.....	21.4	25.1	22.2	1.0	1.0	25	10-19
Pioneer 9692.....	27.8	31.7	-	-	-	-	-
Deltapine DP 3606.....	25.5	28.3	-	-	-	-	-
Dyna-Gro 3682.....	24.2	26.2	-	-	-	-	-
Pioneer 9611.....	27.0	-	-	-	-	-	-
Northrup King S66-90.....	26.5	-	-	-	-	-	-
Dillion.....	25.5	-	-	-	-	-	-
Maturity Group VII							
Pioneer 9711.....	23.3	32.9	30.0	1.0	1.0	26	10-20
Haskell.....	24.5	31.9	29.6	1.2	1.0	29	10-19
Pioneer 9761.....	25.6	29.9	26.1	1.0	1.0	28	10-23
Buckshot 723.....	24.6	29.8	26.1	1.1	1.0	30	10-22
Stonewall.....	24.0	29.7	25.2	1.0	1.0	26	10-20
Wright.....	23.1	26.7	24.9	1.0	1.0	29	10-20
Thomas.....	23.6	24.6	24.5	1.0	1.0	27	10-21
Carver.....	25.5	24.5	23.2	1.0	1.0	26	10-19
Deltapine 3733.....	22.5	-	-	-	-	-	-
Test Means.....	23.4	29.3	26.4	1.0	1.0	25	
L.S.D. (.05).....	4.8						
C.V. (%).....	14.6						

The planting date for 1-year, 2-year, and 3-year averages was May 31, May 30, and May 21, respectively.

TABLE 9. PERFORMANCE OF SOYBEAN VARIETIES ON SUMTER SOIL, MARION JUNCTION, ALABAMA, 1995

Brand-Variety	Yield per acre	Average			Chlorosis* Rate	Maturity date
		Lodging	Shattering	Plant height		
	Bu.	Score	Score	In.	Rating	
Maturity Group V						
Dyna-Grow 3542.....	17.2	1.3	2.5	25	1.50	10-9
Deltapine 3589.....	17.2	1.0	1.5	26	2.00	10-12
Deltapine DPX 3588.....	15.5	1.0	1.5	23	2.00	10-14
Hy Performer HSC591.....	14.4	1.0	1.5	22	2.50	10-14
Hy Performer HY574.....	14.3	1.0	1.8	21	1.25	10-7
Hutcheson.....	13.6	1.0	2.8	20	1.00	10-3
Deltapine 415.....	13.5	1.0	2.0	21	1.75	10-11
Hartz H5566RR.....	13.2	1.0	1.5	18	3.75	10-14
Deltapine 105.....	12.9	1.0	3.0	22	1.50	10-4
Northrup King S59-60.....	11.7	1.0	3.3	20	2.00	10-8
Maturity Group VI						
Deltapine DP 3682.....	23.4	1.0	1.5	22	1.50	10-19
Hartz H6255.....	22.4	1.0	1.3	22	1.25	10-15
Dyna-Gro 3682.....	22.2	1.0	1.0	23	1.50	10-26
Dillion.....	18.7	1.0	2.3	22	2.00	10-13
Deltapine DP 3606.....	18.7	1.0	1.8	22	1.25	10-11
Pioneer 9692.....	18.0	1.0	1.0	22	1.75	10-25
Pioneer 9611.....	16.4	1.0	1.0	23	2.25	10-14
Deltapine DP3627.....	16.2	1.0	1.5	24	1.25	10-14
Young.....	16.2	1.0	2.8	23	1.75	10-12
Centennial.....	15.5	1.0	1.0	22	3.00	10-28
Hartz H6062.....	14.3	1.0	1.5	20	3.00	10-29
Brim.....	13.9	1.0	2.5	22	2.25	10-13
Pioneer 9641.....	12.8	1.0	2.0	20	2.00	10-13
Hy Performer HY 677.....	9.6	1.0	1.8	15	3.00	10-18
Hartz 6686RR.....	9.5	1.0	1.0	24	2.50	11-13
Bryan.....	9.3	1.0	1.0	19	4.25	10-29
Maturity Group VII						
Pioneer 9761.....	25.0	1.0	1.0	26	1.25	10-26
Hagood.....	20.2	1.3	1.0	24	2.50	11-9
Braxton.....	19.7	1.0	1.0	26	1.00	10-27
Haskell.....	19.6	1.3	1.0	23	1.75	11-1
Thomas.....	19.2	1.0	1.0	22	1.00	10-27
Hartz H 7141.....	19.1	1.0	1.0	22	1.25	10-28
Stonewall.....	15.8	1.0	1.0	21	2.00	11-1
Deltapine 3733.....	15.4	1.0	1.0	20	2.25	10-27
Pioneer 9711.....	15.1	1.0	1.0	23	2.00	11-11
Carver.....	14.8	1.0	1.8	22	1.75	10-26
Hartz H 7550RR.....	13.9	1.0	1.0	24	2.25	11-8
Hartz H7190.....	13.4	1.0	1.0	21	2.00	10-26
Hy Performer HSC-721.....	11.1	1.0	1.0	19	4.50	11-9
Test Means.....	16.0	1.0	1.5	22	2.03	
L.S.D. (.05).....	5.7					
C.V. (%).....	25.5					

*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, 3 YEARS SUMMARY, 1992, 1993 AND 1995

Brand-Variety	Yield Per Acre			3-Year Average			Maturity date
	1995	2-Yr. Av.	3-Yr. Av.	Lodging	Shattering	Plant height	
	Bu.	Bu.	Bu.	Score	Score	In.	
Maturity Group V							
Deltapine 105	12.9	19.7	-	-	-	-	-
Deltapine 3589.....	17.2	18.6	-	-	-	-	-
Northrup King S59-60...	11.7	17.1	-	-	-	-	-
Deltapine 415.....	13.5	14.8	-	-	-	-	-
Dyna-Grow 3542.....	17.2	-	-	-	-	-	-
Deltapine DPX 3588.....	15.5	-	-	-	-	-	-
Hy Performer HSC591....	14.4	-	-	-	-	-	-
Hy Performer HY574.....	14.3	-	-	-	-	-	-
Hutcheson.....	13.6	-	-	-	-	-	-
Hartz H5566RR.....	13.2	-	-	-	-	-	-
Maturity Group VI							
Deltapine DP 3682.....	23.4	24.0	33.7	1.0	1.3	23	10-14
Hartz 6686RR	9.5	20.7	27.9	1.1	1.1	25	10-22
Centennial.....	15.5	18.1	27.5	1.0	1.1	25	10-17
Young.....	16.2	23.1	25.4	1.1	2.2	27	10-6
Pioneer 9641.....	12.8	19.2	24.2	1.0	2.6	22	10-7
Brim.....	13.9	16.3	22.1	1.1	2.3	24	10-9
Bryan.....	9.3	9.4	14.9	1.0	1.2	21	10-19
Hartz H6255.....	22.4	-	-	-	-	-	-
Dyna-Gro 3682.....	22.2	-	-	-	-	-	-
Dillion.....	18.7	-	-	-	-	-	-
Deltapine DP 3606.....	18.7	-	-	-	-	-	-
Pioneer 9692.....	18.0	-	-	-	-	-	-
Pioneer 9611.....	16.4	-	-	-	-	-	-
Deltapine DP3627.....	16.2	-	-	-	-	-	-
Hartz H6062.....	14.3	-	-	-	-	-	-
Hy Performer HY 677....	9.6	-	-	-	-	-	-
Maturity Group VII							
Thomas.....	19.2	23.3	32.5	1.0	1.1	24	10-19
Stonewall.....	15.8	22.9	31.1	1.0	1.0	24	10-20
Deltapine 3733.....	15.4	19.1	30.5	1.0	1.0	23	10-17
Hagood.....	20.2	20.7	28.0	1.7	1.3	27	10-24
Braxton.....	19.7	21.7	27.9	1.0	1.1	28	10-20
Pioneer 9761.....	25.0	26.1	-	-	-	-	-
Haskell.....	19.6	23.1	-	-	-	-	-
Hartz H 7141	19.1	21.8	-	-	-	-	-
Pioneer 9711.....	15.1	19.6	-	-	-	-	-
Carver.....	14.8	19.1	-	-	-	-	-
Hy Performer HSC-721...	11.1	13.8	-	-	-	-	-
Hartz H 7550RR.....	13.9	-	-	-	-	-	-
Hartz H7190.....	13.4	-	-	-	-	-	-
Test Means.....	16.0	19.7	27.1	1.1	1.4	24	
L.S.D. (.05).....	5.7						
C.V. (%).....	25.5						

The planting date for 1-year, 2-year, and 3-year averages was June 5, June 10, and May 15, respectively.

TABLE 11. PERFORMANCE OF SOYBEAN VARIETIES ON VAIDEN SOIL, MARION JUNCTION, ALABAMA, 1995

Brand-Variety	Yield per acre	Average			Maturity date
		Lodging	Shattering	Plant height	
	Bu.	Score	Score	In.	
Maturity Group V					
Deltapine DPX 3588.....	26.2	1.0	2.0	34	10-6
Northrup King S59-60.....	26.2	1.0	2.0	26	10-3
Hy Performer HY574.....	24.7	1.0	2.0	29	10-2
Deltapine 3589.....	23.7	1.0	2.0	36	10-6
Hy Performer HSC591.....	21.8	1.0	2.0	32	10-8
Hutcheson.....	21.7	1.0	3.3	26	9-28
Deltapine 105.....	21.5	1.5	2.0	31	10-2
Deltapine 415.....	21.4	1.0	2.0	29	9-30
Hartz H5566RR.....	20.5	1.0	2.0	28	10-6
Dyna-Grow 3542.....	16.3	2.0	2.0	30	9-27
Clifford.....	10.4	1.0	3.8	27	9-28
Maturity Group VI					
Pioneer 9692.....	33.8	1.0	1.0	33	10-17
Brim.....	32.5	1.0	2.3	33	10-9
Hartz H6255.....	30.4	1.0	2.0	30	10-6
Deltapine DP 3682.....	30.0	1.0	2.0	29	10-17
Dyna-Gro 3682.....	28.6	1.0	1.0	31	10-23
Hy Performer HY 677.....	27.3	1.0	1.8	27	10-13
Bryan.....	27.2	1.0	1.3	30	10-18
Pioneer 9611.....	27.0	1.8	2.0	32	10-2
Dillion.....	26.3	1.0	2.8	32	10-6
Deltapine DP 3606.....	25.8	1.3	2.3	32	10-6
Deltapine DP3627.....	25.7	1.0	1.5	32	10-8
Centennial.....	25.4	1.0	1.0	29	10-19
Hartz H6062.....	24.7	1.0	1.8	32	10-13
Hartz 6686RR.....	23.2	1.0	1.0	31	10-24
Leflore.....	19.8	1.3	1.0	30	10-19
Young.....	16.8	1.5	4.0	33	10-2
Pioneer 9641.....	15.1	1.0	3.5	27	10-6
Maturity Group VII					
Pioneer 9761.....	34.7	1.5	1.0	34	10-19
Pioneer 9711.....	29.4	1.0	1.0	33	10-21
Hartz H7190	29.3	1.5	1.0	31	10-18
Haskell.....	28.6	1.0	1.0	31	10-24
Carver.....	28.2	1.0	1.0	31	10-17
Braxton.....	28.1	1.0	1.0	33	10-24
Hagood.....	27.9	1.3	1.0	35	10-22
Stonewall.....	27.0	1.0	1.0	30	10-19
Thomas.....	26.9	1.0	1.0	30	10-26
Hy Performer HSC-721.....	26.8	1.8	1.0	31	10-23
Deltapine 3733.....	26.3	1.3	1.0	31	10-18
Wright.....	26.0	2.0	1.0	32	10-24
Hartz H 7550RR.....	24.7	1.3	1.0	35	10-27
Hartz H 7141	24.6	1.5	1.0	31	10-26
Test Means.....	25.3	1.2	1.7	31	
L.S.D. (.05).....	4.0				
C.V. (%).....	11.3				

TABLE 12. PERFORMANCE OF SOYBEAN VARIETIES ON VAIDEN SOIL, MARION JUNCTION, ALABAMA,
3-YEAR SUMMARY, 1993-95

Brand-Variety	Yield Per Acre			3-Year Average			Maturity date
	1995	2-Yr. Av.	3-Yr. Av.	Lodging	Shattering	Plant height	
	Bu.	Bu.	Bu.	Score	Score	In.	
Maturity Group V							
Deltapine 3589.....	23.7	33.3	38.6	1.4	1.5	36	10-5
Deltapine 105.....	21.5	31.6	36.3	1.8	1.5	30	10-4
Hy Performer HSC591.....	21.8	32.3	36.1	1.3	1.3	33	10-9
Northrup King S59-60	26.2	33.2	36.1	1.7	1.3	27	10-3
Deltapine 415.....	21.4	30.5	34.3	1.0	1.3	27	9-30
Hutcheson.....	21.7	31.2	33.2	1.0	2.0	24	9-30
Dyna-Grow 3542.....	16.3	24.9	-	-	-	-	-
Deltapine DPX 3588.....	26.2	-	-	-	-	-	-
Hy Performer HY574.....	24.7	-	-	-	-	-	-
Hartz H5566RR.....	20.5	-	-	-	-	-	-
Clifford.....	10.4	-	-	-	-	-	-
Maturity Group VI							
Deltapine DP 3606.....	25.8	36.4	41.0	1.4	1.6	31	10-8
Deltapine DP3627.....	25.7	36.6	40.9	1.3	1.3	32	10-9
Deltapine DP 3682.....	30.0	36.0	40.9	1.0	1.5	30	10-14
Brim.....	32.5	37.7	40.7	1.3	2.3	31	10-8
Hartz 6686RR.....	23.2	36.5	40.4	1.3	1.1	31	10-17
Bryan.....	27.2	34.3	39.2	1.0	1.1	32	10-16
Centennial.....	25.4	33.9	38.0	1.0	1.0	32	10-15
Leflore.....	19.8	31.8	35.1	1.3	1.0	30	10-15
Pioneer 9641.....	15.1	29.7	35.0	1.1	2.3	28	10-8
Young.....	16.8	28.8	33.9	1.5	2.5	32	10-6
Pioneer 9692.....	33.8	40.9	-	-	-	-	-
Hy Performer HY 677.....	27.3	38.0	-	-	-	-	-
Dyna-Gro 3682.....	28.6	37.9	-	-	-	-	-
Hartz H6255.....	30.4	-	-	-	-	-	-
Pioneer 9611.....	27.0	-	-	-	-	-	-
Dillion.....	26.3	-	-	-	-	-	-
Hartz H6062.....	24.7	-	-	-	-	-	-
Maturity Group VII							
Haskell.....	28.6	38.0	43.7	1.8	1.0	32	10-19
Pioneer 9761.....	34.7	41.9	43.6	1.2	1.0	32	10-18
Hartz H7190.....	29.3	38.5	43.1	1.3	1.0	30	10-17
Stonewall.....	27.0	36.1	40.9	1.3	1.0	31	10-16
Carver.....	28.2	36.7	40.8	1.0	1.1	30	10-16
Thomas.....	26.9	35.7	40.4	1.0	1.0	30	10-21
Pioneer 9711.....	29.4	36.8	39.9	1.3	1.0	32	10-17
Braxton.....	28.1	35.5	39.5	1.0	1.0	32	10-20
Hy Performer HSC-721.....	26.8	34.4	38.0	1.9	1.0	31	10-20
Hagood.....	27.9	32.6	36.7	1.3	1.0	33	10-20
Wright.....	26.0	33.7	-	-	-	-	-
Deltapine 3733.....	26.3	-	-	-	-	-	-
Hartz H 7550RR.....	24.7	-	-	-	-	-	-
Hartz H 7141.....	24.6	-	-	-	-	-	-
Test Means.....	25.3	34.7	38.7	1.3	1.3	31	
L.S.D. (.05).....	5.8						
C.V. (%).....	11.3						

The planting date for 1-year, 2-year, and 3-year averages was June 6, June 9, and June 11, respectively.

TABLE 13. PERFORMANCE OF SOYBEAN VARIETIES AT BREWTON, ALABAMA, 1995

Brand-Variety	Yield per acre	Average			Maturity date
		Lodging	Shattering	Plant height	
	Bu.	Score	Score	In.	
Maturity Group V					
Buckshot 55	42.4	2.3	0.0	26	10-5
Clifford	49.4	1.0	0.0	27	9-28
Deltapine 105.....	45.2	2.0	0.0	34	10-4
Deltapine 3589.....	43.2	2.0	0.0	37	10-6
Deltapine 415.....	45.1	1.5	0.0	32	10-3
Deltapine DPX 3588....	46.2	2.5	0.0	39	10-5
Dyna-Grow 3542.....	40.7	2.8	0.0	31	9-30
Dyna-Grow 3576.....	51.7	1.3	0.0	26	10-4
Holladay.....	48.5	1.0	0.0	23	10-5
Hutcheson.....	53.4	1.0	0.0	29	10-6
Hy Performer HSC591...	46.9	2.0	0.0	31	10-8
Hy Performer HY574....	52.1	1.5	0.0	30	10-6
Maturity Group VI					
Bryan.....	49.6	2.0	0.0	34	10-17
Buckshot 66.....	54.5	3.0	1.3	39	10-16
Deltapine DP 3606....	59.1	2.5	0.3	34	10-9
Deltapine DP 3682....	62.2	1.8	1.3	30	10-13
Deltapine DP3627.....	55.6	1.8	1.3	32	10-10
Dillion.....	60.0	1.5	1.3	32	10-9
Dyna-Gro 3682.....	57.8	2.5	1.3	31	10-17
Hartz 6686RR	54.6	2.5	0.0	36	10-13
Hartz H6255.....	64.9	2.8	0.0	31	10-16
Hy Performer HSC B2J..	49.9	2.3	0.0	32	10-10
Hy Performer HY 677...	55.7	1.5	1.3	27	10-13
Pioneer 9611	57.2	2.5	1.3	35	10-8
Pioneer 9692	59.4	1.8	0.0	30	10-14
Riverside 699.....	56.7	2.5	0.0	32	10-15
Riverside Cajun.....	55.6	2.3	1.3	29	10-11
Maturity Group VII					
Buckshot 723.....	58.5	2.3	0.0	35	10-17
Carver.....	59.0	1.8	0.0	30	10-13
Deltapine 3733.....	59.6	2.5	0.0	33	10-15
Deltapine 417.....	60.3	2.3	0.0	40	10-18
Hagood.....	62.9	3.0	0.0	39	10-17
Haskell.....	63.1	2.8	0.0	33	10-17
Northrup King S75-55..	63.1	2.0	0.0	34	10-16
Pioneer 9711.....	56.8	2.3	0.0	32	10-14
Pioneer 9761.....	57.7	1.8	0.0	32	10-15
Riverside 757.....	55.7	2.5	0.0	38	10-18
Stonewall.....	60.3	2.8	0.0	33	10-17
Maturity Group VIII					
Cook.....	68.8	3.0	0.0	37	10-20
Hartz HX8558	61.9	3.0	0.0	37	10-20
Pioneer 9831.....	64.2	3.0	0.0	34	10-19
Test Means.....	55.4	2.2	0.3	32	
L.S.D. (.05)	5.2				
C.V. (%)	6.7				

TABLE 14. PERFORMANCE OF SOYBEAN VARIETIES AT BREWTON, ALABAMA, 3-YEAR SUMMARY, 1993-95

Brand-Variety	Yield Per Acre			3-Year Average			Maturity date
	1995	2-Yr. Av.	3-Yr. Av.	Lodging	Shattering	Plant height	
	Bu.	Bu.	Bu.	Score	Score	In.	
Maturity Group V							
Hutcheson.....	53.4	44.6	46.1	0.7	0.5	24	9-27
Hy Performer HSC591.....	46.9	41.0	39.4	1.3	0.0	32	10-3
Buckshot 55.....	42.4	37.4	37.0	1.3	0.4	26	9-30
Holladay.....	48.5	32.7	33.9	0.7	0.3	23	9-27
Deltapine 3589.....	43.2	42.2	-	-	-	-	-
Dyna-Grow 3576.....	51.7	41.4	-	-	-	-	-
Dyna-Grow 3542.....	40.7	39.0	-	-	-	-	-
Hy Performer HY574.....	52.1	-	-	-	-	-	-
Clifford.....	49.4	-	-	-	-	-	-
Deltapine DPX 3588.....	46.2	-	-	-	-	-	-
Deltapine 105.....	45.2	-	-	-	-	-	-
Deltapine 415.....	45.1	-	-	-	-	-	-
Maturity Group VI							
Deltapine DP 3682.....	62.2	56.1	52.0	1.3	0.6	31	10-11
Deltapine DP3627.....	55.6	54.5	51.7	1.1	0.6	30	10-6
Buckshot 66.....	54.5	53.4	50.7	1.7	1.3	36	10-12
Bryan.....	49.6	49.6	47.2	1.3	0.0	32	10-12
Hy Performer HSC B2J.....	49.9	44.9	42.5	1.4	0.0	30	10-5
Deltapine DP 3606.....	59.1	53.4	-	-	-	-	-
Pioneer 9692.....	59.4	53.2	-	-	-	-	-
Hy Performer HY 677.....	55.7	51.9	-	-	-	-	-
Dyna-Gro 3682.....	57.8	51.3	-	-	-	-	-
Riverside 699.....	56.7	43.7	-	-	-	-	-
Riverside Cajun.....	55.6	43.0	-	-	-	-	-
Hartz H6255.....	64.9	-	-	-	-	-	-
Dillion.....	60.0	-	-	-	-	-	-
Pioneer 9611.....	57.2	-	-	-	-	-	-
Hartz 6686RR.....	54.6	-	-	-	-	-	-
Maturity Group VII							
Haskell.....	63.1	59.5	56.7	1.6	0.0	32	10-15
Pioneer 9761.....	57.7	54.9	53.4	1.3	0.0	32	10-13
Deltapine 3733.....	59.6	55.5	52.2	1.5	0.0	30	10-12
Hagood.....	62.9	55.8	51.3	2.2	0.0	37	10-17
Buckshot 723.....	58.5	52.0	49.1	1.7	0.0	35	10-17
Carver.....	59.0	50.0	48.8	1.3	0.0	29	10-11
Pioneer 9711.....	56.8	51.5	47.8	1.4	0.0	31	10-12
Stonewall.....	60.3	49.4	46.6	1.6	0.0	30	10-13
Northrup King S75-55.....	63.1	58.2	-	-	-	-	-
Riverside 757.....	55.7	54.4	-	-	-	-	-
Deltapine 417.....	60.3	53.2	-	-	-	-	-
Maturity Group VIII							
Pioneer 9831.....	64.2	60.2	56.1	1.7	0.0	32	10-19
Cook.....	68.8	57.2	54.2	1.7	0.0	35	10-20
Hartz HX8558.....	61.9	-	-	-	-	-	-
Test Means.....	55.4	49.8	48.2	1.4	0.2	31	
L.S.D. (.05).....	5.2						
C.V. (%).....	6.7						

The planting date for 1-year, 2-year, and 3-year averages was June 12, May 19, and May 21, respectively.

TABLE 15. PERFORMANCE OF SOYBEAN VARIETIES AT FAIRHOPE, ALABAMA, 1995

Brand-Variety	Yield per acre	Average			Maturity Date
		Lodging	Shattering	Plant height	
	Bu.	Score	Score	In.	
Maturity Group V					
Hutcheson.....	55.3	1.0	3.0	27	9-29
Northrup King S59-60.....	54.3	3.0	1.3	30	10-2
Hy Performer HY574.....	53.5	2.0	1.0	30	9-30
Hy Performer HSC591.....	49.7	2.8	1.3	33	10-7
Holladay.....	49.3	1.5	1.3	25	9-29
Deltapine DPX 3588.....	48.7	2.3	1.0	39	10-4
Dyna-Grow 3542.....	48.5	3.0	1.5	35	9-30
Deltapine 3589.....	48.1	2.5	1.0	37	10-3
Hartz 5164.....	47.8	2.3	1.5	32	10-1
Deltapine 105.....	46.1	2.8	1.3	31	10-1
Buckshot 55.....	45.7	3.0	1.5	28	9-29
Hartz H5566RR.....	45.6	2.0	1.3	27	9-30
Deltapine 415.....	45.5	1.8	1.0	31	9-29
Clifford.....	45.2	2.0	1.0	27	9-25
Maturity Group VI					
Pioneer 9692.....	55.5	2.0	1.0	30	10-12
Buckshot 66.....	52.2	3.0	1.0	32	10-13
Hy Performer HY 677.....	51.4	2.0	1.3	27	10-11
Hartz H6255.....	51.2	2.8	1.0	31	10-12
Bryan.....	48.8	3.0	1.0	32	10-14
Northrup King S62-66.....	48.7	3.0	1.0	32	10-7
Deltapine DP3627.....	48.6	2.3	1.5	33	10-8
Dillion.....	48.3	2.0	1.5	33	10-5
Young.....	48.2	2.8	3.3	34	10-6
Hartz H6062.....	48.0	2.0	1.0	29	10-10
Hy Performer HSC B2J.....	47.0	2.5	1.0	32	10-10
Deltapine DP 3606.....	46.2	2.5	1.8	32	10-3
Deltapine DP 3682.....	45.3	2.3	1.0	25	10-11
Hartz 6686RR.....	43.0	2.5	1.0	34	10-13
Dyna-Gro 3682.....	42.8	2.5	1.0	26	10-14
Maturity Group VII					
Hartz H 7141.....	52.6	3.0	1.0	33	10-20
Hagood.....	51.6	3.3	1.0	38	10-21
Carver.....	50.9	1.0	1.0	32	10-11
Northrup King S75-55.....	48.8	1.8	1.0	33	10-16
Hartz H 7550RR	48.6	2.0	1.0	39	10-18
Deltapine 3733.....	48.4	2.3	1.0	30	10-15
Haskell.....	48.3	2.5	1.0	33	10-17
Hy Performer HSC 741.....	48.3	2.3	1.0	37	10-19
Hartz H7190.....	47.5	2.0	1.0	31	10-14
Hy Performer HSC-721.....	47.1	3.5	1.0	34	10-17
Hartz H 7440.....	47.1	2.5	1.0	41	10-19
Hy Performer HB3-X798.....	46.1	3.0	1.0	33	10-19
Buckshot 723.....	46.1	2.8	1.0	33	10-15
Braxton.....	45.0	2.5	1.0	37	10-20
Stonewall.....	44.3	2.5	1.0	31	10-14
Thomas.....	42.3	2.0	1.0	36	10-16
Deltapine 417.....	39.5	3.0	1.0	39	10-20
Maturity Group VIII					
Cook.....	46.5	2.8	1.0	37	10-16
Pioneer 9831.....	39.7	2.3	1.0	37	10-16
Hartz HX8558.....	38.1	2.5	1.3	40	10-19
Test Means.....	47.7	2.4	1.2	33	
L.S.D. (.05).....	6.8				
C.V. (%).....	10.2				

TABLE 16. PERFORMANCE OF SOYBEAN VARIETIES AT FAIRHOPE, ALABAMA, 3-YEAR SUMMARY, 1993-95

Brand-Variety	Yield Per Acre			3-Year Average			Maturity date
	1995	2-Yr. Av.	3-Yr. Av.	Lodging	Shattering	Plant height	
	Bu.	Bu.	Bu.	Score	Score	In.	
Maturity Group V							
Northrup King S59-60.....	54.3	53.9	49.4	2.6	1.1	31	9-26
Hutcheson.....	55.3	51.7	48.2	1.1	1.8	28	9-23
Hartz 5164.....	47.8	48.3	46.3	2.0	1.2	35	9-27
Holladay.....	49.3	48.0	46.2	1.2	1.3	26	9-20
Buckshot 55.....	45.7	47.2	44.4	2.3	1.2	31	9-24
Hy Performer HSC591.....	49.7	46.4	43.9	2.4	1.1	36	10-1
Dyna-Grow 3542.....	48.5	46.4	-	-	-	-	-
Deltapine 3589.....	48.1	45.7	-	-	-	-	-
Hy Performer HY574.....	53.5	-	-	-	-	-	-
Deltapine DPX 3588.....	48.7	-	-	-	-	-	-
Deltapine 105.....	46.1	-	-	-	-	-	-
Hartz H5566RR.....	45.6	-	-	-	-	-	-
Deltapine 415.....	45.5	-	-	-	-	-	-
Clifford.....	45.2	-	-	-	-	-	-
Maturity Group VI							
Deltapine DP3627.....	48.6	51.6	48.6	1.6	1.2	36	10-2
Buckshot 66.....	52.2	50.5	48.5	2.0	1.0	39	10-8
Bryan.....	48.8	49.0	47.3	1.8	1.0	36	10-8
Northrup King S62-66.....	48.7	48.0	46.7	2.3	1.0	32	10-1
Hartz 6686RR.....	43.0	47.8	46.2	1.8	1.0	35	10-8
Deltapine DP 3682.....	45.3	45.0	45.6	1.6	1.0	32	10-5
Hy Performer HSC B2J.....	47.0	46.9	45.6	1.6	1.0	34	10-1
Young.....	48.2	46.2	44.8	2.6	1.9	38	9-30
Hy Performer HY 677.....	51.4	47.9	-	-	-	-	-
Deltapine DP 3606.....	46.2	45.9	-	-	-	-	-
Dyna-Gro 3682.....	42.8	43.5	-	-	-	-	-
Pioneer 9692.....	55.5	-	-	-	-	-	-
Hartz H6255.....	51.2	-	-	-	-	-	-
Dillion.....	48.3	-	-	-	-	-	-
Hartz H6062.....	48.0	-	-	-	-	-	-
Maturity Group VII							
Deltapine 3733.....	48.4	50.5	49.3	1.5	1.0	34	10-9
Haskell.....	48.3	52.5	49.1	2.2	1.0	37	10-12
Hartz H 7141.....	52.6	50.9	48.9	2.3	1.0	36	10-14
Carver.....	50.9	47.1	45.4	1.2	1.0	34	10-5
Stonewall.....	44.3	46.0	45.2	1.8	1.0	35	10-7
Hagood.....	51.6	45.1	44.4	2.2	1.0	40	10-16
Braxton.....	45.0	44.6	43.8	1.5	1.0	40	10-13
Buckshot 723.....	46.1	44.8	43.8	1.7	1.0	38	10-11
Thomas.....	42.3	41.5	42.5	1.3	1.0	38	10-10
Hy Performer HSC-721.....	47.1	44.1	42.3	2.9	1.1	35	10-8
Northrup King S75-55.....	48.8	49.3	-	-	-	-	-
Hy Performer HB3-X798.....	46.1	47.1	-	-	-	-	-
Hartz H 7440.....	47.1	44.0	-	-	-	-	-
Deltapine 417.....	39.5	35.5	-	-	-	-	-
Hartz H 7550RR.....	48.6	-	-	-	-	-	-
Hy Performer HSC 741.....	48.3	-	-	-	-	-	-
Hartz H7190.....	47.5	-	-	-	-	-	-
Maturity Group VIII							
Cook.....	46.5	45.2	45.9	1.7	1.0	39	10-12
Pioneer 9831.....	39.7	40.4	41.4	2.0	1.0	39	10-14
Hartz HX8558.....	38.1	-	-	-	-	-	-
Test Means.....	47.7	46.8	45.9	1.9	1.1	35	
L.S.D. (.05).....	6.3						
C.V. (%).....	10.2						

The planting date for 1-year, 2-year, and 3-year averages was June 6, June 1, and June 15, respectively.

TABLE 17. PERFORMANCE OF VERY EARLY PLANTED SOYBEAN VARIETIES AT BREWTON, ALABAMA, 1995

Brand-Variety	Yield per acre	Average			Maturity date
		Lodging	Shattering	Plant height	
	Bu.	Score	Score	In.	
Maturity Group V					
Deltapine 105.....	25.6	1.0	0.0	15	9-18
Deltapine 3589.....	22.5	1.0	0.0	19	9-16
Deltapine DPX 3588.....	22.3	1.0	0.0	16	9-17
Hutcheson.....	21.2	1.0	0.0	13	9-15
Essex.....	12.4	1.0	5.0	12	9-14
Holladay.....	12.2	1.0	3.8	12	9-17
Maturity Group VI					
Dillion.....	38.6	1.0	0.0	18	9-28
Young.....	29.9	1.0	0.0	17	9-26
Deltapine DP 3606.....	29.4	1.0	0.0	17	9-25
Leflore.....	24.1	1.0	0.0	13	10-4
Bryan.....	23.2	1.0	0.0	14	10-5
Maturity Group VII					
Haskell.....	29.0	1.0	0.0	15	10-13
Carver.....	27.2	1.0	0.0	14	10-5
Stonewall.....	20.7	1.0	0.0	13	10-5
Test Means.....	24.2	1.0	0.6	15	
L.S.D. (.05).....	7.2				
C.V. (%).....	20.9				

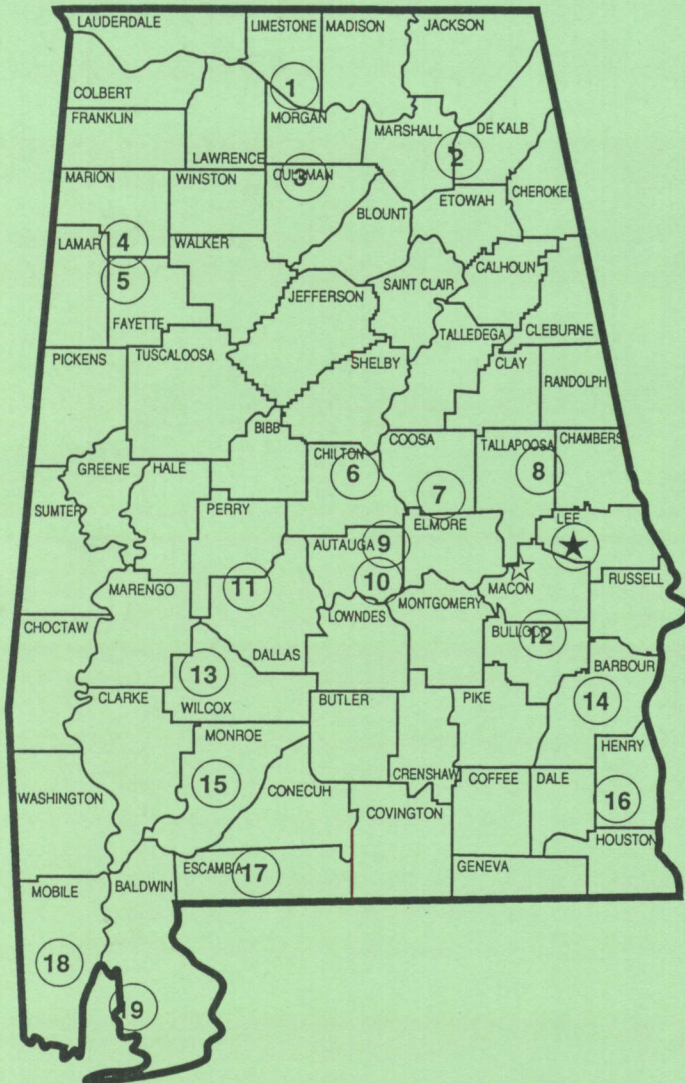
TABLE 18. PERFORMANCE OF SOYBEAN VARIETIES IN PRELIMINARY TESTS, 1995

Brand-Variety	Yield Per Acre		
	Northern (Belle Mina)	Central (Prattville)	Southern (Monroeville)
	Bu.	Bu.	Bu.
Group V			
Chembred CB 5691.....	-	22.6	-
Deltapine DP 3519.....	33.5	-	-
Deltapine DP 3571.....	26.4	-	-
Hartwig.....	15.1	21.1	13.6
Hartz H5050.....	20.0	22.3	12.9
Hartz H5266.....	23.5	21.7	15.4
Hartz H5488.....	27.8	26.1	20.1
Hornbeck HBK 54.....	27.2	-	-
Hornbeck HBK 58.....	28.0	-	-
Hutcheson.....	31.8	28.5	16.9
Hy Performer HSC591.....	24.2	25.2	17.7
Northrup King S59-95.....	31.7	-	-
Group VI			
AU 91-158.....	22.3	30.3	17.7
Deltapine DPX 3640.....	-	30.1	24.5
Deltapine DPX 3681.....	-	29.0	25.6
Dillion.....	24.7	25.2	22.7
Hornbeck HBK 67.....	-	25.9	-
Pioneer 9692.....	30.7	30.4	22.4
Riverside 93-36.....	26.3	27.1	24.9
Riverside 93-44.....	24.2	30.4	23.6
Group VII			
AU 91-788.....	23.9	29.2	25.0
F-90-5099.....	28.1	26.5	21.1
F-91-1577.....	12.6	22.0	10.8
Haskell.....	23.6	28.7	24.1
Hornbeck HBK 79.....	-	-	21.9
Group VIII			
AU 91-13.....	-	-	20.6
Cook.....	-	-	26.8
Test Means.....	25.3	26.4	20.4
L.S.D. (0.05).....	6.2	4.1	3.4
C.V. (%).....	17.2	10.8	11.8

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1. Tennessee Valley Substation, Belle Mina.
2. Sand Mountain Substation, Crossville.
3. North Alabama Horticulture Substation, Cullman.
4. Upper Coastal Plain Substation, Winfield.
5. Forestry Unit, Fayette County.
6. Chilton Area Horticulture Substation, Clanton.
7. Forestry Unit, Coosa County.
8. Piedmont Substation, Camp Hill.
9. Forestry Unit, Autauga County.
10. Prattville Experiment Field, Prattville.
11. Black Belt Substation, Marion Junction.
12. The Turnipseed-Ikenberry Place, Union Springs.
13. Lower Coastal Plain Substation, Camden.
14. Forestry Unit, Barbour County.
15. Monroeville Experiment Field, Monroeville.
16. Wiregrass Substation, Headland.
17. Brewton Experiment Field, Brewton.
18. Ornamental Horticulture Substation, Spring Hill.
19. Gulf Coast Substation, Fairhope.