

PERFORMANCE
OF SOYBEAN
VARIETIES IN
ALABAMA,
1993



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Lowell T. Frobish, Director Auburn University, Alabama

TABLE OF CONTENTS

	<u>Page</u>
INTRODUCTION.....	5
EXPERIMENTAL PROCEDURES.....	5
SEASONAL CONDITIONS.....	6
COMPARING VARIETIES.....	6
ACKNOWLEDGMENTS.....	8
Table 1. Entries and Sources for 1993.....	9
Table 2. Cultural Practices for Soybean Variety Tests in 1993.....	11
Table 3. Rainfall at Test Locations During Growing Season, 1993.....	12
Table 4. Soil Types for Soybean Tests, 1993.....	13
Table 5. Performance of Soybean Varieties in Northern Alabama, 1993.....	14
Table 6. Performance of Soybean Varieties in Northern Alabama, 3-year Summary, 1991-93.....	15
Table 7. Performance of Soybean Varieties at Prattville, Alabama, 1993.....	16
Table 8. Performance of Soybean Varieties at Prattville, Alabama, 3-year Summary, 1991-93.....	17
Table 9. Performance of Soybean Varieties on Sumter Soil, Marion Junction, Alabama, 1993.....	18
Table 10. Performance of Soybean Varieties on Sumter Soil, Marion Junction, Alabama, 3-year Summary, 1991-93.....	19
Table 11. Performance of Soybean Varieties on Vaiden Soil, Marion Junction, Alabama, 1993.....	20
Table 12. Performance of Soybean Varieties on Vaiden Soil, Marion Junction, Alabama, 3-year Summary, 1991-93.....	21
Table 13. Performance of Soybean Varieties at Brewton, Alabama, 1993.....	22

Table 14.	Performance of Soybean Varieties at Brewton, Alabama, 3-year Summary, 1991-93.....	23
Table 15.	Performance of Soybean Varieties at Fairhope, Alabama, 1993.....	24
Table 16.	Performance of Soybean Varieties at Fairhope, Alabama, 3-year Summary, 1991-93.....	25
Table 17.	Performance of Early Planted Soybean Varieties at Brewton, Alabama, 1993.....	26
Table 18.	Performance of Soybean Varieties in Preliminary Tests, 1993.....	27

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

PERFORMANCE OF SOYBEAN VARIETIES IN ALABAMA, 1993

K.M. Glass and D.I. Bransby¹

INTRODUCTION

Soybean variety tests are conducted annually by the Alabama Agricultural Experiment Station. The 7 locations used represent the major soil and climatic regions of Alabama. These locations are divided into logical soybean growing regions. The regions and locations are:

<u>Region</u>	<u>Location</u>
Northern	Belle Mina, Crossville
Central	Prattville
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 incomplete lattice square design with four replications.

Data were collected on seed yield, moisture, lodging, shattering, plant height, and maturity date. Plot yields were adjusted to 13 percent moisture and converted to bushels (60 pounds) per acre. Lodging was scored on a scale of 1 to 5 as follows:

1 - almost all plants erect.

¹Research Assistant and Professor of Agronomy and Soils.

- 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 was such that planting dates for the standard tests in northern Alabama and Marion Junction 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.

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 1993 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.

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.

Black Belt Substation, Marion Junction	J.L. Holliman J.R. Harris
Brewton Experiment Field, Brewton	J.R. Akridge
Monroeville Experiment Field, Monroeville.....	J.R. Akridge
Gulf Coast Substation, Fairhope	E.L. Carden N.R. McDaniel M.D. Pegues
Prattville Experiment Field, Prattville	D.P. Moore
Sand Mountain Substation, Crossville	J.T. Eason M.E. Ruf
Tennessee Valley Substation, Belle Mina	W.B. Webster Ellis Burgess B.E. Norris

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 1993

Asgrow Seed Co. Moultrie, Georgia	Asgrow brand varieties
Bragg Farms Toney, Alabama	Davis Essex Hutcheson Ransom Stonewall Young
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	Au87-547 Au85-1814
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 Colquitt Cook Haskell Johnston Wright
Hy Performer Seed Company Memphis, Tennessee	Hy Performer brand varieties HSC, HB
Jacob Hartz Seed Company, Inc. Suttgart, Arkansas	Hartz brand varieties
Kelly Seed Hartford, Alabama	Howard Kirby
Mississippi State University Mississippi State, Mississippi	Sharkey

(Continued on following page)

Table 1 (continued). Entries and Sources for 1993

Northrup King Co. Highland, Illinois	Coker brand varieties S59-60 S62-66
North Carolina State University Raleigh, North Carolina	Brim Holladay
Oklahoma Foundation Seed	Forrest
Pioneer Hi-Bred International, Inc. Tipton, Indiana	Pioneer brand varieties
South Carolina Crop Impr. Assoc. Clemson, South Carolina	Hagood Perrin Maxcy
Terral-Norris Seed Company, Inc. Lake Providence, Louisiana	Terra-Vig brand varieties
University of Arkansas Fayetteville, Arkansas	Lloyd Narrow M Walters
University of Florida Gainesville, Florida	Cobb
University of Missouri Columbia, Missouri	Rhodes
Virginia Crop Improv. Assoc. Holley, Virginia	Camp

Table 2. Cultural Practices for Soybean Variety Tests in 1993

Location	Type test	Date planted	Row width	Herbicide used	Fertilizer applied
Belle Mina.....	Standard	May 17	36	Treflan	none recommended
	Preliminary	May 14	36	Treflan	none recommended
Crossville.....	Standard	May 17	30	Scepter, Dual	300 lb 5-10-15/acre
Prattville.....	Standard	May 21	30	Prowl	none recommended
	Preliminary	May 21	30	Treflan	none recommended
Marion Junction..	Standard (Sumter)	June 10	36	Prowl, Scepter	100 lb 0-46-0/acre
	Standard (Vaiden)	June 11	36	Prowl, Scepter	200 lb 0-25-25/acre
Brewton.....	Early	May 5	36	Treflan	400 lb 5-10-15/acre
	Standard	May 21	36	Vernam	none recommended
Monroeville.....	Preliminary	May 20	36	Dual, Seucor	none recommended
Fairhope.....	Standard	June 15	30	Dual, Classic, Reflex, Lorox, Butoxone	165 lb 0-24-24 + 10 lb S/acre

Table 3. Rainfall at Test Locations During Growing Season, 1993

Month	Days	Belle Mina	Crossville	Prattville	Marion Junction	Brewton	Fairhope
		In.	In.	In.	In.	In.	In.
May	1-5	2.51	1.78	0.87	1.74	0.88	2.58
	6-10	0	0.23	0.19	0.15	0.21	0
	11-15	0.74	0.42	0.56	0.75	1.84	2.94
	16-20	0.14	0.33	0.42	0.02	0.29	0.15
	21-25	0.01	0.04	0.09	0.01	0.02	0.04
	26-31	<u>1.27</u>	<u>1.58</u>	<u>0.09</u>	<u>0.38</u>	<u>0.97</u>	<u>0.10</u>
		4.67	4.38	2.22	3.05	4.21	5.81
June	1-5	0.36	0.03	0.53	0	0	0.08
	6-10	0	0	0	0	0	0
	11-15	0.53	0.37	0.06	0.22	0.94	0.64
	16-20	0	0	0	0	0	0.16
	21-25	0.76	0.26	0.09	0.20	1.38	2.11
	26-30	<u>1.35</u>	<u>0.18</u>	<u>1.52</u>	<u>1.00</u>	<u>0.79</u>	<u>0.39</u>
		3.00	0.84	2.20	1.42	3.11	3.38
July	1-5	0	0	0.04	0.10	1.36	0.57
	6-10	0.76	1.09	1.66	0.51	0.78	1.62
	11-15	0	0	0.20	0.11	3.45	1.94
	16-20	1.76	0.85	0.10	0.01	1.92	0.02
	21-25	0	0	0	1.22	1.94	3.56
	26-31	<u>0.12</u>	<u>0.40</u>	<u>0.06</u>	<u>0.30</u>	<u>1.24</u>	<u>0.37</u>
		2.64	2.34	2.06	2.25	10.69	8.08
August	1-5	1.08	1.72	3.16	1.87	0.55	2.24
	6-10	1.58	2.09	1.93	3.67	2.08	1.92
	11-15	1.90	0.22	0.31	0.39	0	0.10
	16-20	0.76	0.13	0	0	0	1.19
	21-25	0.15	0	0.78	0.65	0.35	0.81
	26-31	<u>0.03</u>	<u>0</u>	<u>0.25</u>	<u>0.24</u>	<u>0.82</u>	<u>1.31</u>
		5.50	4.16	6.43	6.82	3.80	7.57
September	1-5	1.31	0.28	0.34	2.17	1.15	2.75
	6-10	0.26	0.03	0	0.41	3.97	0.35
	11-15	0.18	0.32	0.31	0.40	0.38	1.23
	16-20	1.16	0.27	0	0.31	2.56	0.60
	21-25	1.80	0.68	0	0	0.18	0
	26-30	<u>0.58</u>	<u>0.21</u>	<u>0.26</u>	<u>0.40</u>	<u>0.08</u>	<u>0.06</u>
		5.29	1.79	0.91	3.69	8.32	4.99
October	1-5	0.04	0	0	0	0	0
	6-10	0	0.14	0.07	0	0	0
	11-15	0	0	0.04	0.10	0.09	0.01
	16-20	0.86	0.32	0.03	0.40	0.95	0.52
	21-25	0.23	0.36	0	0.08	1.21	0.04
	26-31	<u>0.97</u>	<u>1.25</u>	<u>3.88</u>	<u>2.42</u>	<u>5.48</u>	<u>4.73</u>
		2.10	2.07	4.02	3.00	7.73	5.30

Table 4. Soil Types for Soybean Tests, 1993

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

Table 5. Performance of Soybean Varieties in Northern Alabama, 1993

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.....	54.4	27.4	1.1	1.0	29	9-26
Buckshot 55.....	55.0	27.3	1.4	1.0	30	9-25
Camp.....	25.1	16.8	1.0	1.0	15	9-18
Deltapine 105.....	42.6	21.9	1.0	1.0	32	9-25
Deltapine 415.....	50.1	31.2	1.0	1.0	30	9-25
Essex.....	41.5	22.1	1.1	1.0	24	9-19
Hartz 5164.....	51.2	25.7	1.5	1.0	33	9-29
Hartz H5042.....	52.7	15.9	1.8	1.0	37	9-25
Hartz H5350.....	55.6	25.8	1.4	1.0	30	9-26
Hartz H5545.....	52.4	27.8	1.4	1.0	30	9-25
Hartz H5566.....	55.4	24.6	1.0	1.0	30	9-29
Holladay.....	50.8	21.6	1.0	1.0	22	9-19
Hutcheson.....	49.1	20.0	1.4	1.0	26	9-26
Hy Performer HSC591.....	49.3	23.7	1.0	1.0	38	10-9
Narrow M.....	50.3	22.8	1.0	1.0	27	9-23
Northrup King Coker 485.	51.1	26.6	1.3	1.0	32	9-28
Northrup King S59-60.....	51.0	24.8	1.8	1.0	32	9-26
Pioneer 9521.....	46.0	27.6	1.1	1.0	25	9-19
Pioneer 9551.....	46.8	27.0	1.0	1.0	28	9-20
Pioneer 9592.....	49.7	22.5	1.1	1.0	36	9-28
Pioneer 9593.....	48.9	25.8	1.1	1.0	36	9-27
Rhodes.....	51.6	26.5	1.0	1.0	30	9-27
Stone.....	37.3	18.8	1.0	1.0	31	9-29
Terra-Vig 5452.....	49.5	31.1	1.3	1.0	32	9-25
Walters.....	46.1	26.5	1.5	1.0	32	9-25
<u>Maturity Group VI</u>						
Brim.....	55.6	20.1	1.0	1.0	36	10-7
Bryan.....	53.7	25.8	1.0	1.0	40	10-17
Hartz 6686.....	49.8	21.4	1.0	1.0	35	10-15
Hy Performer HSC B2J.....	49.5	23.9	1.1	1.0	36	10-7
Leflore.....	51.7	25.5	1.0	1.0	37	10-13
Northrup King S62-66.....	55.5	23.8	1.8	1.0	32	10-2
Pioneer 9641.....	43.9	19.5	1.1	1.0	32	10-4
Sharkey.....	46.2	21.5	1.3	1.0	36	10-14
Young.....	41.6	19.9	1.1	1.0	36	10-5
<u>Maturity Group VII</u>						
Au87-547.....	57.4	27.9	1.0	1.0	35	10-13
Braxton.....	43.4	17.9	1.0	1.0	39	10-21
Haskell.....	49.2	18.7	1.0	1.0	33	10-20
Stonewall.....	50.4	28.2	1.0	1.0	34	10-15
Test Means.....	49.0	23.8	1.2	1.0	32	
L.S.D. (.05).....	7.8	3.6				
C.V. (%).....	11.4	10.8				

Table 6. Performance of Soybean Varieties in Northern Alabama, 3-Year Summary, 1991-93

Brand-Variety	Yield Per Acre			3-Year Average			Maturity Date
	1993	2-Yr. Av.	3-Yr. Av.	Lodging	Shattering	Plant Height	
	Bu.	Bu.	Bu.	Score	Score	In.	
<u>Maturity Group V</u>							
Northrup King Coker 485.	38.8	47.9	43.1	1.6	0.8	33	10-5
Deltapine 415.....	40.6	46.6	41.7	1.1	0.8	32	10-2
Hartz 5164.....	38.5	45.4	40.5	1.8	0.8	35	10-5
Hartz H5566.....	40.0	44.0	39.8	1.4	0.8	32	10-5
Rhodes.....	39.1	42.4	39.8	1.2	0.8	33	9-29
Buckshot 507.....	40.9	44.3	39.4	1.9	0.8	32	10-4
Terra-Vig 5452.....	40.3	44.1	39.2	1.5	0.8	33	10-1
Narrow M.....	36.6	42.0	37.8	1.2	0.8	29	9-30
Hutcheson.....	34.5	41.8	37.0	1.2	0.8	29	10-2
Walters.....	36.3	41.1	36.1	1.9	0.8	33	10-1
Pioneer 9592.....	36.1	40.9	36.0	1.6	0.8	38	10-6
Hy Performer HSC591.....	36.5	39.7	35.4	1.8	0.8	38	10-10
Deltapine 105.....	32.2	39.7	34.8	1.5	0.8	35	10-2
Essex.....	31.8	36.8	34.0	1.0	0.8	25	9-25
Camp.....	20.9	28.2	24.3	1.0	0.9	18	9-27
Pioneer 9593.....	37.4	45.5	-	-	-	-	-
Northrup King S59-60.....	37.9	44.8	-	-	-	-	-
Hartz H5350.....	40.7	44.8	-	-	-	-	-
Pioneer 9521.....	36.8	44.2	-	-	-	-	-
Holladay.....	36.2	42.1	-	-	-	-	-
Pioneer 9551.....	36.9	40.1	-	-	-	-	-
Buckshot 55.....	41.1	-	-	-	-	-	-
Hartz H5545.....	40.1	-	-	-	-	-	-
Hartz H5042.....	34.3	-	-	-	-	-	-
Stone.....	28.1	-	-	-	-	-	-
<u>Maturity Group VI</u>							
Hy Performer HSC B2J.....	36.7	41.8	39.3	1.5	0.8	37	10-8
Bryan.....	39.7	40.8	37.8	1.4	0.8	40	10-15
Brim.....	37.8	40.4	37.0	1.4	1.0	35	10-9
Leflore.....	38.6	39.6	35.9	1.6	0.8	38	10-13
Pioneer 9641.....	31.7	39.2	35.8	1.5	0.8	35	10-8
Sharkey.....	33.9	39.1	35.6	2.4	0.8	40	10-13
Hartz 6686.....	35.6	39.2	35.0	1.2	0.8	35	10-13
Young.....	30.7	36.0	32.0	1.7	0.8	38	10-9
Northrup King S62-66.....	39.7	43.8	-	-	-	-	-
<u>Maturity Group VII</u>							
Stonewall.....	39.3	40.8	36.9	1.8	0.8	35	10-14
Braxton.....	30.7	31.5	28.9	1.5	0.8	39	10-18
Au87-547.....	42.6	-	-	-	-	-	-
Haskell.....	34.0	-	-	-	-	-	-
Test Means.....	36.4	41.2	36.5	1.5	0.8	34	
L.S.D. (.05).....	6.1						
C.V. (%).....	12.0						

The planting date for 1-year, 2-year, and 3-year averages was May 17, May 19, and May 19, respectively.

Table 7. Performance of Soybean Varieties at Prattville Alabama, 1993

Brand-Variety	Yield Per Acre	Regional Average			Maturity Date
		Lodging	Shattering	Plant Height	
	Bu.	Score	Score	In.	
<u>Maturity Group V</u>					
Buckshot 507.....	10.5	1.0	1.0	12	9-23
Buckshot 55.....	18.8	1.0	1.0	14	9-23
Deltapine 105.....	14.7	1.0	1.0	15	9-26
Deltapine 415.....	18.5	1.0	1.0	13	9-23
Forrest.....	11.4	1.0	1.0	12	9-23
Holladay.....	11.9	1.0	1.0	10	9-23
Hutcheson.....	26.5	1.0	1.0	16	9-22
Hy Performer HSC591.....	23.1	1.0	1.0	17	10-1
Rhodes.....	14.1	1.0	1.0	13	9-23
Stone.....	20.2	1.0	1.0	15	9-25
Terra-Vig 5693.....	23.8	1.0	1.0	13	9-24
Walters.....	18.2	1.0	1.0	15	9-23
<u>Maturity Group VI</u>					
Brim.....	25.9	1.0	1.0	23	10-3
Bryan.....	16.5	1.0	1.0	19	10-12
Buckshot 66.....	22.8	1.0	1.0	24	10-9
Deltapine DP3627.....	19.1	1.0	1.0	18	10-3
Deltapine DPX 3682.....	16.9	1.0	1.0	19	10-5
Hy Performer HSC B2J....	15.4	1.0	1.0	16	10-3
Leflore.....	24.2	1.0	1.0	22	10-7
Pioneer 9641.....	21.8	1.0	1.0	19	10-2
Terra-Vig 6253.....	25.9	1.0	1.0	19	10-1
Young.....	19.0	1.0	1.0	21	10-4
<u>Maturity Group VII</u>					
Au87-547.....	20.6	1.0	1.0	23	10-9
Buckshot 723.....	18.6	1.0	1.0	26	10-11
Haskell.....	25.0	1.0	1.0	24	10-9
Pioneer 9711.....	24.1	1.0	1.0	23	10-12
Pioneer 9761.....	18.6	1.0	1.0	24	10-14
Stonewall.....	16.3	1.0	1.0	23	10-12
Thomas.....	24.3	1.0	1.0	24	10-12
Wright.....	21.2	1.0	1.0	27	10-11
<u>Maturity Group VIII</u>					
Cook.....	24.0	1.0	1.0	27	10-16
Johnston.....	24.0	1.0	1.0	27	10-16
Maxcy.....	18.9	1.0	1.0	23	10-15
Perrin.....	19.6	1.0	1.0	32	10-21
Test Means.....	19.8	1.0	1.0	20	
L.S.D. (.05).....	4.3				
C.V. (%).....	15.3				

Table 8. Performance of Soybean Varieties at Prattville Alabama, 3-Year Summary, 1991-93

Brand-Variety	Yield Per Acre			3-Year Average			Maturity Date
	1993 Bu.	2-Yr. Av. Bu.	3-Yr. Av. Bu.	Lodging Score	Shattering Score	Plant Height In.	
<u>Maturity Group V</u>							
Hutcheson.....	26.5	39.3	36.2	1.0	1.0	23	9-21
Deltapine 415.....	18.5	35.4	33.5	1.0	1.0	22	9-20
Walters.....	18.2	33.3	31.3	1.0	1.0	24	9-21
Deltapine 105.....	14.7	32.5	29.7	1.0	1.0	26	9-23
Forrest.....	11.4	29.4	28.3	1.0	1.0	24	9-23
Hy Performer HSC591.....	23.1	31.9	-	-	-	-	-
Rhodes.....	14.1	27.9	-	-	-	-	-
Terra-Vig 5693.....	23.8	-	-	-	-	-	-
Stone.....	20.2	-	-	-	-	-	-
Buckshot 55.....	18.8	-	-	-	-	-	-
Holladay.....	11.9	-	-	-	-	-	-
Buckshot 507.....	10.5	-	-	-	-	-	-
<u>Maturity Group VI</u>							
Pioneer 9641.....	21.8	32.8	29.7	1.0	1.3	28	10-1
Brim.....	25.9	32.7	28.0	1.0	1.2	31	9-30
Young.....	19.0	28.9	27.9	1.0	1.1	31	10-1
Deltapine DP3627.....	19.1	29.4	26.4	1.0	1.0	27	10-2
Leflore.....	24.2	30.8	24.8	1.0	1.0	30	10-7
Buckshot 66.....	22.8	30.6	-	-	-	-	-
Bryan.....	16.5	28.6	-	-	-	-	-
Deltapine DPX 3682.....	16.9	25.9	-	-	-	-	-
Terra-Vig 6253.....	25.9	-	-	-	-	-	-
Hy Performer HSC B2J.....	15.4	-	-	-	-	-	-
<u>Maturity Group VII</u>							
Pioneer 9711.....	24.1	31.2	25.6	1.0	1.0	30	10-10
Thomas.....	24.3	30.4	24.2	1.0	1.0	31	10-14
Wright.....	21.2	30.2	23.4	1.0	1.0	33	10-13
Stonewall.....	16.3	25.6	22.4	1.0	1.0	30	10-11
Pioneer 9761.....	18.6	30.0	-	-	-	-	-
Au87-547.....	20.6	29.2	-	-	-	-	-
Buckshot 723.....	18.6	27.2	-	-	-	-	-
Haskell.....	25.0	-	-	-	-	-	-
<u>Maturity Group VIII</u>							
Cook.....	24.0	32.6	25.8	1.0	1.0	33	10-15
Johnston.....	24.0	30.8	23.3	1.0	1.0	32	10-17
Perrin.....	19.6	25.8	19.2	1.0	1.0	39	10-23
Maxcy.....	18.9	27.1	-	-	-	-	-
Test Means.....	19.8	30.4	27.0	1.0	1.0	29	
L.S.D. (.05).....	4.3						
C.V. (%).....	15.3						

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

Table 9. Performance of Soybean Varieties on Sumter Soil, Marion Junction, Alabama, 1993

Brand-Variety	Yield Per Acre Bu.	Average		Plant Height In.	Chlorosis* Rating	Maturity Date
		Lodging Score	Shattering Score			
<u>Maturity Group V</u>						
Deltapine 105.....	26.5	1.0	1.3	19	1.50	10-4
Stone.....	24.2	1.0	1.5	19	1.25	10-4
Northrup King S59-60....	22.5	1.0	1.5	18	1.25	10-4
Northrup King Coker 485.	20.2	1.0	1.0	19	1.50	10-6
Deltapine 3589.....	20.0	1.3	1.0	22	2.00	10-11
Terra-Vig 5452.....	19.5	1.0	1.0	18	2.25	10-5
Walters.....	18.8	1.0	1.3	15	1.25	10-4
Rhodes.....	18.1	1.0	1.3	17	1.25	10-4
Narrow M.....	17.5	1.0	1.0	15	1.25	9-28
Deltapine 415.....	16.2	1.0	1.0	18	1.50	10-6
Hartz 5164.....	14.2	1.0	1.0	19	3.00	10-8
Deltapine 3553.....	11.2	1.0	1.0	18	3.00	10-8
<u>Maturity Group VI</u>						
Hartz 6686.....	32.0	1.3	1.0	23	1.00	10-12
Young.....	30.0	1.3	1.3	24	1.00	10-5
Davis.....	27.2	1.0	1.3	23	1.25	10-7
Pioneer 9641.....	25.5	1.0	2.7	21	1.25	10-6
Deltapine DPX 3682.....	24.7	1.0	1.0	18	1.50	10-11
Sharkey.....	21.9	3.0	1.0	27	1.25	10-11
Centennial.....	20.8	1.0	1.0	21	2.00	10-15
Hy Performer HSC B2J....	19.0	1.0	1.0	19	2.00	10-8
Brim.....	18.8	1.0	2.2	18	1.75	10-8
Terra-Vig 6653.....	13.8	1.0	1.0	17	1.75	10-11
Bryan.....	9.5	1.0	1.0	17	5.75	10-13
<u>Maturity Group VII</u>						
Stonewall.....	30.0	1.0	1.0	21	1.50	10-14
Thomas.....	27.5	1.0	1.0	20	1.25	10-14
Pioneer 9761.....	27.1	1.0	1.0	21	1.25	10-17
Haskell.....	26.7	1.0	1.0	21	2.00	10-15
Hartz H 7141.....	24.5	1.3	1.0	19	2.00	10-15
Pioneer 9711.....	24.0	1.0	1.0	20	1.50	10-15
Colquitt.....	23.7	1.0	1.0	21	1.75	10-13
Braxton.....	23.6	1.0	1.0	24	1.50	10-15
Au87-547.....	23.5	1.0	1.0	19	1.50	10-13
Deltapine 3733.....	22.9	1.0	1.0	19	1.25	10-13
Hagood.....	21.2	1.8	1.0	20	2.50	10-18
Hy Performer HSC-721....	16.4	1.8	1.0	20	3.50	10-18
Howard.....	14.7	1.0	1.0	18	3.50	10-18
<u>Maturity Group VIII</u>						
Maxcy.....	23.9	1.0	1.0	22	2.00	10-18
Cook.....	23.7	1.0	1.0	22	1.25	10-15
Hartz HX8558.....	20.9	1.3	1.0	23	1.50	10-18
Cobb.....	20.6	1.0	1.0	26	1.00	10-20
Test Means.....	21.7	1.1	1.1	20	1.81	
L.S.D. (.05).....	7.1					
C.V. (%).....	23.4					

*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-Year Summary, 1991-93

Brand-Variety	Yield Per Acre			3-Year Average			Maturity Date
	1993 Bu.	2-Yr. Av. Bu.	3-Yr. Av. Bu.	Lodging Score	Shattering Score	Plant Height In.	
<u>Maturity Group V</u>							
Walters.....	18.8	34.6	33.3	1.0	1.3	19	9-30
Narow M.....	17.5	29.5	29.4	1.0	1.2	17	9-25
Stone.....	24.2	29.7	29.0	1.0	1.5	21	10-3
Northrup King Coker 485.	20.2	33.4	-	-	-	-	-
Rhodes.....	18.1	30.4	-	-	-	-	-
Deltapine 105.....	26.5	-	-	-	-	-	-
Northrup King S59-60....	22.5	-	-	-	-	-	-
Deltapine 3589.....	20.0	-	-	-	-	-	-
Terra-Vig 5452.....	19.5	-	-	-	-	-	-
Deltapine 415.....	16.2	-	-	-	-	-	-
Hartz 5164.....	14.2	-	-	-	-	-	-
Deltapine 3553.....	11.2	-	-	-	-	-	-
<u>Maturity Group VI</u>							
Hartz 6686.....	32.0	37.1	34.5	1.1	1.1	24	10-13
Hy Performer HSC B2J....	19.0	32.4	32.8	1.0	1.3	22	10-6
Sharkey.....	21.9	31.7	30.2	2.2	1.3	31	10-12
Bryan.....	9.5	17.7	14.6	1.0	1.2	21	10-14
Deltapine DPX 3682.....	24.7	38.8	-	-	-	-	-
Centennial.....	20.8	33.5	-	-	-	-	-
Davis.....	27.2	31.9	-	-	-	-	-
Young.....	30.0	30.1	-	-	-	-	-
Pioneer 9641.....	25.5	29.8	-	-	-	-	-
Brim.....	18.8	26.2	-	-	-	-	-
Terra-Vig 6653.....	13.8	-	-	-	-	-	-
<u>Maturity Group VII</u>							
Thomas.....	27.5	39.1	38.4	1.0	1.1	24	10-15
Stonewall.....	30.0	38.7	37.5	1.0	1.0	24	10-14
Hagood.....	21.2	31.9	33.5	1.7	1.3	28	10-17
Braxton.....	23.6	31.9	30.9	1.0	1.1	27	10-16
Colquitt.....	23.7	29.3	30.5	1.0	1.0	24	10-14
Deltapine 3733.....	22.9	38.1	-	-	-	-	-
Howard.....	14.7	27.4	-	-	-	-	-
Pioneer 9761.....	27.1	-	-	-	-	-	-
Haskell.....	26.7	-	-	-	-	-	-
Hartz H 7141.....	24.5	-	-	-	-	-	-
Pioneer 9711.....	24.0	-	-	-	-	-	-
Au87-547.....	23.5	-	-	-	-	-	-
Hy Performer HSC-721....	16.4	-	-	-	-	-	-
<u>Maturity Group VIII</u>							
Maxcy.....	23.9	38.1	36.5	1.0	1.0	26	10-17
Cobb.....	20.6	26.5	25.8	1.0	1.3	29	10-23
Cook.....	23.7	30.9	-	-	-	-	-
Hartz HX8558.....	20.9	-	-	-	-	-	-
Test Means.....	21.7	31.9	31.2	1.1	1.2	24	
L.S.D. (.05).....	7.1						
C.V. (%).....	23.4						

The planting date for 1-year, 2-year, and 3-year averages was June 10, May 15, and May 29, respectively.

Table 11. Performance of Soybean Varieties on Vaiden Soil, Marion Junction, Alabama, 1993

Brand-Variety	Yield Per Acre Bu.	Average		Plant Height In.	Maturity Date
		Lodging Score	Shattering Score		
<u>Maturity Group V</u>					
Deltapine 3589.....	49.3	2.2	1.5	36	10-6
Northrup King Coker 485.	48.6	1.0	1.0	27	10-4
Walters.....	47.8	1.3	1.5	24	9-29
Deltapine 105.....	45.8	1.8	1.5	27	10-4
Hartz 5164.....	44.9	1.8	1.0	25	10-4
Hy Performer HSC591.....	43.6	1.3	1.0	30	10-8
Deltapine 3553.....	42.9	1.3	1.3	27	10-3
Stone.....	42.4	1.0	1.5	25	10-4
Northrup King S59-60....	41.9	1.3	1.0	25	10-4
Deltapine 415.....	41.7	1.0	1.0	23	10-4
Hartz H5566.....	41.5	1.0	1.0	23	10-6
Narow M.....	40.8	1.0	1.0	19	9-29
Rhodes.....	37.7	1.0	1.0	24	10-1
Hartz H5350.....	37.2	1.0	1.3	21	10-1
Hutcheson.....	37.1	1.0	1.8	21	10-4
Hartz H5042.....	36.5	1.3	1.3	26	10-4
Terra-Vig 5452.....	36.4	1.0	1.0	23	10-4
Forrest.....	32.0	1.0	1.0	21	10-4
<u>Maturity Group VI</u>					
Deltapine DPX 3682.....	50.8	1.0	1.0	30	10-11
Deltapine DPX 3606.....	50.1	1.5	1.0	31	10-8
Deltapine DP3627.....	49.6	1.3	1.0	31	10-8
Bryan.....	49.1	1.0	1.0	33	10-13
Hartz 6686.....	48.2	1.8	1.0	31	10-12
Brim.....	46.7	2.0	2.7	30	10-8
Sharkey.....	46.6	3.5	1.0	36	10-11
Centennial.....	46.1	1.0	1.0	33	10-11
Pioneer 9641.....	45.5	1.3	2.0	29	10-8
Hy Performer HSC B2J....	44.5	1.0	1.0	32	10-8
Davis.....	44.2	1.3	2.0	32	10-8
Young.....	44.1	1.5	2.0	32	10-7
Terra-Vig 6653.....	43.5	1.3	1.0	29	10-12
Leflore.....	41.5	1.3	1.0	30	10-11
<u>Maturity Group VII</u>					
Haskell.....	55.0	2.0	1.0	32	10-15
Hartz H7190.....	52.2	1.3	1.0	29	10-14
Stonewall.....	50.4	1.8	1.0	31	10-13
Thomas.....	49.9	1.0	1.0	29	10-18
Au87-547.....	49.1	1.0	1.0	31	10-15
Colquitt.....	47.6	1.0	1.0	31	10-18
Braxton.....	47.5	1.0	1.0	33	10-18
Pioneer 9761.....	47.2	1.0	1.0	29	10-18
Pioneer 9711.....	46.1	1.3	1.0	30	10-15
Hartz H 7141.....	45.8	1.0	1.0	33	10-18
Hy Performer HSC-721....	45.2	2.2	1.0	31	10-17
Hagood.....	44.8	1.0	1.0	32	10-18
Howard.....	42.8	1.0	1.0	30	10-20
<u>Maturity Group VIII</u>					
Cook.....	51.2	1.0	1.0	34	10-18
Maxcy.....	50.7	1.0	1.0	33	10-22
Hartz HX8558.....	49.2	1.0	1.0	35	10-19
Johnston.....	48.9	1.0	1.0	33	10-19
Perrin.....	47.4	1.0	1.0	35	10-22
Kirby.....	44.4	1.0	1.0	35	10-24
Cobb.....	42.6	2.0	1.0	38	10-27
Test Means.....	45.3	1.3	1.2	29	
L.S.D. (.05).....	7.3				
C.V. (%).....	11.5				

Table 12. Performance of Soybean Varieties on Vaiden Soil, Marion Junction, Alabama,
3-Year Summary, 1991-93

Brand-Variety	Yield Per Acre			3-Year Average			Maturity Date
	1993	2-Yr. Av.	3-Yr. Av.	Lodging	Shattering	Plant Height	
	Bu.	Bu.	Bu.	Score	Score	In.	
<u>Maturity Group V</u>							
Hy Performer HSC591.....	43.6	48.1	49.3	1.1	1.0	32	10-9
Northrup King Coker 485.	48.6	51.1	46.5	1.0	1.3	26	10-4
Hartz 5164.....	44.9	47.8	46.3	1.4	1.3	27	10-5
Walters.....	47.8	49.3	46.0	1.3	1.7	24	9-30
Deltapine 105.....	45.8	48.3	45.0	1.4	1.8	28	10-4
Stone.....	42.4	46.2	43.7	1.0	1.5	26	10-5
Hutcheson.....	37.1	48.0	42.7	1.0	1.7	22	10-1
Narrow M.....	40.8	45.7	42.1	1.0	1.3	22	9-29
Forrest.....	32.0	44.0	39.7	1.0	1.4	25	10-2
Deltapine 415.....	41.7	47.2	39.5	1.0	1.2	24	10-2
Northrup King S59-60....	41.9	50.1	-	-	-	-	-
Rhodes.....	37.7	45.3	-	-	-	-	-
Terra-Vig 5452.....	36.4	44.4	-	-	-	-	-
Deltapine 3589.....	49.3	-	-	-	-	-	-
Deltapine 3553.....	42.9	-	-	-	-	-	-
Hartz H5566.....	41.5	-	-	-	-	-	-
Hartz H5350.....	37.2	-	-	-	-	-	-
Hartz H5042.....	36.5	-	-	-	-	-	-
<u>Maturity Group VI</u>							
Hartz 6686.....	48.2	54.6	53.0	1.3	1.0	29	10-13
Deltapine DP3627.....	49.6	53.0	50.2	1.3	1.2	30	10-9
Brim.....	46.7	52.8	46.7	1.4	2.3	28	10-8
Centennial.....	46.1	49.0	46.5	1.1	1.0	30	10-11
Pioneer 9641.....	45.5	47.3	46.5	1.3	2.1	29	10-9
Bryan.....	49.1	49.6	46.3	1.0	1.1	31	10-14
Davis.....	44.2	45.9	45.8	1.7	1.8	32	10-10
Young.....	44.1	45.3	44.1	1.8	2.0	32	10-8
Sharkey.....	46.6	46.4	43.8	2.9	1.3	34	10-11
Leftore.....	41.5	45.4	43.4	1.3	1.2	30	10-12
Deltapine DPX 3682.....	50.8	53.4	-	-	-	-	-
Terra-Vig 6653.....	43.5	49.4	-	-	-	-	-
Hy Performer HSC B2J....	44.5	47.2	-	-	-	-	-
Deltapine DPX 3606.....	50.1	-	-	-	-	-	-
<u>Maturity Group VII</u>							
Hartz H7190.....	52.2	55.7	51.4	1.1	1.0	28	10-18
Colquitt.....	47.6	51.5	50.5	1.3	1.0	31	10-16
Hagood.....	44.8	46.6	47.5	1.8	1.2	34	10-17
Pioneer 9711.....	46.1	49.2	47.5	1.2	1.0	29	10-15
Hy Performer HSC-721....	45.2	48.1	47.5	2.2	1.0	30	10-15
Stonewall.....	50.4	52.2	45.8	1.3	1.0	29	10-14
Braxton.....	47.5	48.0	45.0	1.2	1.0	32	10-17
Au87-547.....	49.1	54.3	-	-	-	-	-
Pioneer 9761.....	47.2	49.7	-	-	-	-	-
Howard.....	42.8	45.9	-	-	-	-	-
Haskell.....	55.0	-	-	-	-	-	-
Thomas.....	49.9	-	-	-	-	-	-
Hartz H 7141.....	45.8	-	-	-	-	-	-
<u>Maturity Group VIII</u>							
Johnston.....	48.9	52.8	51.0	1.5	1.0	29	10-20
Kirby.....	44.4	46.5	42.5	1.2	1.0	31	10-24
Cobb.....	42.6	42.9	42.0	1.9	1.3	35	10-28
Maxcy.....	50.7	53.0	-	-	-	-	-
Cook.....	51.2	51.2	-	-	-	-	-
Perrin.....	47.4	46.9	-	-	-	-	-
Hartz HX8558.....	49.2	-	-	-	-	-	-
Test Means.....	45.3	48.8	45.9	1.4	1.3	29	
L.S.D. (.05).....	7.3						
C.V. (%).....	11.5						

The planting date for 1-year, 2-year, and 3-year averages was June 11, May 15, and May 29, respectively.

Table 13. Performance of Soybean Varieties at Brewton, Alabama, 1993

Brand-Variety	Yield Per Acre Bu.	Regional Average			Maturity Date
		Lodging Score	Shattering Score	Plant Height In.	
<u>Maturity Group V</u>					
Buckshot 507.....	42.2	0.0	0.0	25	10-4
Buckshot 55.....	36.1	0.8	0.8	31	10-2
Deltapine 105.....	43.5	1.0	0.2	31	9-28
Holladay.....	36.2	0.0	0.5	26	9-23
Hutcheson.....	49.1	0.0	1.0	23	9-25
Hy Performer HSC591.....	36.1	1.0	0.0	35	10-2
Northrup King Coker 485.	39.2	0.8	0.0	33	10-4
Rhodes.....	29.1	0.5	0.8	32	9-27
Stone.....	39.8	0.8	0.0	28	10-1
Walters.....	39.7	1.0	0.8	29	9-29
<u>Maturity Group VI</u>					
Bryan.....	42.5	1.0	-	34	10-8
Buckshot 66.....	45.3	1.0	-	37	10-10
Davis.....	40.3	1.5	0.0	34	10-2
Deltapine DP3627.....	46.1	0.5	0.0	29	10-3
Deltapine DPX 3682.....	43.7	1.0	0.0	34	10-10
Hy Performer HSC B2J....	37.7	1.0	0.0	33	10-4
Lloyd.....	39.4	1.0	0.0	40	10-10
Pioneer 9641.....	40.8	1.0	0.5	30	10-4
Terra-Vig 6253.....	39.7	1.3	0.0	35	10-10
Terra-Vig 6653.....	40.1	1.0	0.0	29	10-10
Terra-Vig 6792.....	37.4	0.3	0.0	32	10-7
Young.....	43.2	1.8	0.0	34	10-2
<u>Maturity Group VII</u>					
Au87-547.....	46.4	1.0	-	30	10-10
Braxton.....	45.3	1.0	-	37	10-12
Buckshot 723.....	43.2	1.8	-	39	10-16
Deltapine 3733.....	45.6	1.0	-	33	10-7
Deltapine 3776.....	49.7	1.0	-	34	10-12
Hagood.....	42.3	2.2	-	39	10-16
Haskell.....	50.9	1.0	-	34	10-12
Howard.....	40.0	1.0	-	37	10-15
Hy Performer HSC-721....	36.5	2.2	-	33	10-11
Pioneer 9711.....	40.5	1.0	-	30	10-11
Pioneer 9761.....	50.4	1.0	-	32	10-12
Stonewall.....	41.1	1.0	-	31	10-11
Thomas.....	37.4	1.0	-	34	10-12
<u>Maturity Group VIII</u>					
Cobb.....	40.5	2.0	-	41	10-27
Cook.....	48.2	1.0	-	36	10-16
Deltapine DPX3818.....	42.1	1.8	-	38	10-14
Kirby.....	35.7	1.0	-	36	10-25
Maxcy.....	39.7	1.3	-	36	10-21
Perrin.....	40.5	1.3	-	41	10-25
Pioneer 9831.....	47.9	1.0	-	33	10-16
Test Means.....	41.7	1.0	0.2	33	
L.S.D. (.05).....	5.5				
C.V. (%).....	9.5				

Table 14. Performance of Soybean Varieties at Brewton, Alabama, 3-Year Summary, 1991-93

Brand-Variety	Yield Per Acre			3-Year Average			Maturity Date
	1993 Bu.	2-Yr. Av. Bu.	3-Yr. Av. Bu.	Lodging Score	Shattering Score	Plant Height In.	
<u>Maturity Group V</u>							
Deltapine 105 ₃	43.5	50.5	51.6	1.2	0.6	29	9-29
Hutcheson.....	49.1	53.7	50.0	0.8	1.3	22	9-29
Hy Performer HSC591.....	36.1	43.8	45.2	1.1	0.5	30	10-2
Walters.....	39.7	47.4	-	-	-	-	-
Rhodes.....	29.1	36.1	-	-	-	-	-
Buckshot 507.....	42.2	-	-	-	-	-	-
Stone.....	39.8	-	-	-	-	-	-
Northrup King Coker 485.	39.2	-	-	-	-	-	-
Holladay.....	36.2	-	-	-	-	-	-
Buckshot 55.....	36.1	-	-	-	-	-	-
<u>Maturity Group VI</u>							
Young.....	43.2	50.6	51.8	1.3	0.5	32	10-5
Davis.....	40.3	49.9	50.4	1.2	0.5	33	10-6
Terra-Vig 6653.....	40.1	47.3	47.0	1.0	0.5	27	10-7
Bryan.....	42.5	45.3	46.7	1.0	1.0	31	10-8
Lloyd.....	39.4	45.5	46.0	1.0	0.5	35	10-10
Hy Performer HSC B2J.....	37.7	43.9	45.3	1.0	0.5	30	10-5
Deltapine DPX 3682.....	43.7	49.8	-	-	-	-	-
Deltapine DP3627.....	46.1	49.7	-	-	-	-	-
Buckshot 66.....	45.3	49.5	-	-	-	-	-
Pioneer 9641.....	40.8	-	-	-	-	-	-
Terra-Vig 6253.....	39.7	-	-	-	-	-	-
Terra-Vig 6792.....	37.4	-	-	-	-	-	-
<u>Maturity Group VII</u>							
Hagood.....	42.3	50.3	49.4	1.4	1.0	35	10-15
Buckshot 723.....	43.2	49.7	49.1	1.5	1.0	35	10-15
Stonewall.....	41.1	47.9	48.7	1.0	1.0	29	10-10
Braxton.....	45.3	49.0	48.2	1.0	1.0	34	10-13
Pioneer 9711.....	40.5	45.3	47.0	1.2	1.0	30	10-11
Hy Performer HSC-721.....	36.5	44.9	45.2	1.5	1.0	31	10-12
Thomas.....	37.4	44.6	45.0	1.0	1.0	30	10-13
Deltapine 3776.....	49.7	53.2	-	-	-	-	-
Pioneer 9761.....	50.4	52.8	-	-	-	-	-
Au87-547.....	46.4	51.0	-	-	-	-	-
Deltapine 3733.....	45.6	49.8	-	-	-	-	-
Howard.....	40.0	45.4	-	-	-	-	-
Haskell.....	50.9	-	-	-	-	-	-
<u>Maturity Group VIII</u>							
Cook.....	48.2	53.1	54.4	1.1	1.0	33	10-17
Perrin.....	40.5	45.8	45.5	1.1	1.0	39	10-22
Maxcy.....	39.7	46.0	44.2	1.1	1.0	33	10-19
Kirby.....	35.7	41.6	42.4	1.0	1.0	34	10-21
Cobb.....	40.5	44.9	42.0	1.5	1.0	39	10-26
Deltapine DPX3818.....	42.1	46.9	-	-	-	-	-
Pioneer 9831.....	47.9	-	-	-	-	-	-
Test Means.....	41.7	47.7	47.4	1.1	0.9	32	
L.S.D. (.05).....	5.5						
C.V. (%).....	9.5						

The planting date for 1-year, 2-year, and 3-year averages was May 21, June 2, and June 4, respectively.

Table 15. Performance of Soybean Varieties at Fairhope, Alabama, 1993

Brand-Variety	Yield Per Acre Bu.	Average		Plant Height In.	Maturity Date
		Lodging Score	Shattering Score		
<u>Maturity Group V</u>					
Northrup King Coker 485.	42.6	1.8	1.0	29	9-26
Holladay.....	42.4	1.0	1.0	24	9-21
Hartz H5042.....	42.4	2.2	1.0	34	9-24
Hartz 5164.....	42.1	2.2	1.0	34	9-29
Hartz H5566.....	41.9	1.0	1.0	29	9-30
Hutcheson.....	41.2	1.0	1.0	27	9-25
Buckshot 507.....	41.1	1.0	1.0	28	9-27
Northrup King S59-60....	40.5	2.7	1.0	29	9-26
Rhodes.....	40.0	1.5	1.0	33	9-22
Hartz H5350.....	40.0	1.3	1.0	28	9-27
Stone.....	39.5	1.5	1.0	34	9-27
Deltapine 105.....	39.2	2.5	1.0	34	9-26
Hy Performer HSC591.....	39.0	1.8	1.0	33	10-2
Buckshot 55.....	38.9	2.5	1.0	31	9-25
Walters.....	36.1	1.5	1.0	28	9-23
Forrest.....	29.4	1.0	1.0	26	9-25
<u>Maturity Group VI</u>					
Deltapine DPX 3682.....	46.7	1.5	1.0	34	10-8
Buckshot 66.....	44.5	1.8	1.0	41	10-8
Northrup King S62-66....	44.2	2.2	1.0	30	10-2
Bryan.....	44.0	1.3	1.0	36	10-9
Sharkey.....	43.7	3.0	1.0	39	10-7
Lloyd.....	43.1	2.5	1.0	40	10-8
Hartz 6686.....	42.8	1.5	1.0	35	10-12
Hy Performer HSC B2J....	42.8	1.3	1.0	34	10-2
Deltapine DP3627.....	42.7	1.5	1.0	35	10-3
Young.....	42.1	2.7	1.0	38	10-1
Terra-Vig 6792.....	40.6	1.8	1.0	33	9-30
Davis.....	39.8	1.8	1.0	36	10-4
<u>Maturity Group VII</u>					
Deltapine 3733.....	46.9	1.0	1.0	34	10-9
Hartz H7190.....	46.8	1.0	1.0	32	10-12
Hartz H 7141.....	44.8	2.0	1.0	37	10-16
Thomas.....	44.3	1.0	1.0	37	10-12
Deltapine 3776.....	43.9	1.3	1.0	38	10-14
Stonewall.....	43.7	2.0	1.0	35	10-9
Hagood.....	42.9	1.3	1.0	38	10-18
Braxton.....	42.3	1.0	1.0	39	10-12
Haskell.....	42.3	2.5	1.0	35	10-12
Au87-547.....	42.1	1.0	1.0	35	10-8
Howard.....	41.9	1.0	1.0	35	10-18
Buckshot 723.....	41.7	1.0	1.0	38	10-12
Colquitt.....	41.3	2.5	1.0	38	10-12
Ransom.....	39.7	1.3	1.0	35	10-12
Hy Performer HSC-721....	38.8	2.5	1.0	32	10-9
<u>Maturity Group VIII</u>					
Cook.....	47.5	1.0	1.0	37	10-15
Pioneer 9831.....	43.6	1.8	1.0	38	10-18
Hartz HX8558.....	41.4	1.0	1.0	41	10-18
Deltapine DPX3818.....	40.4	1.5	1.0	40	10-14
Johnston.....	39.8	2.5	1.0	35	10-17
Cobb.....	38.5	1.3	1.0	44	10-22
Test Means.....	41.8	1.6	1.0	34	
L.S.D. (.05).....	4.3				
C.V. (%).....	7.3				

Table 16. Performance of Soybean Varieties at Fairhope, Alabama,
3-Year Summary, 1991-93

Brand-Variety	Yield Per Acre			3-Year Average			
	1993	2-Yr. Av.	3-Yr. Av.	Lodging	Shattering	Plant Height	Maturity Date
	Bu.	Bu.	Bu.	Score	Score	In.	
<u>Maturity Group V</u>							
Hutcheson.....	41.2	48.6	49.5	1.0	1.4	27	9-29
Northrup King Coker 485.	42.6	46.5	49.3	1.5	1.2	31	10-1
Hartz 5164.....	42.1	45.2	46.5	2.0	1.2	33	10-3
Deltapine 105.....	39.2	42.3	46.2	2.4	1.1	33	10-1
Walters.....	36.1	43.4	45.3	1.3	1.2	29	9-29
Forrest.....	29.4	35.8	40.8	1.4	1.1	30	9-28
Holladay.....	42.4	50.3	-	-	-	-	-
Hy Performer HSC591.....	39.0	45.9	-	-	-	-	-
Rhodes.....	40.0	42.9	-	-	-	-	-
Hartz H5042.....	42.4	-	-	-	-	-	-
Hartz H5566.....	41.9	-	-	-	-	-	-
Buckshot 507.....	41.1	-	-	-	-	-	-
Northrup King S59-60....	40.5	-	-	-	-	-	-
Hartz H5350.....	40.0	-	-	-	-	-	-
Stone.....	39.5	-	-	-	-	-	-
Buckshot 55.....	38.9	-	-	-	-	-	-
<u>Maturity Group VI</u>							
Hy Performer HSC B2J....	42.8	46.0	48.9	1.2	1.1	37	10-4
Deltapine DP3627.....	42.7	44.4	48.3	1.8	1.1	35	10-7
Hartz 6686.....	42.8	45.2	48.3	1.5	1.0	34	10-12
Bryan.....	44.0	44.3	48.2	1.1	1.0	38	10-11
Sharkey.....	43.7	42.8	46.1	2.3	1.4	40	10-9
Davis.....	39.8	44.0	45.8	1.9	1.3	38	10-9
Young.....	42.1	44.8	45.7	2.2	1.4	39	10-5
Lloyd.....	43.1	40.6	44.4	2.1	1.0	42	10-10
Deltapine DPX 3682.....	46.7	47.6	-	-	-	-	-
Northrup King S62-66....	44.2	44.7	-	-	-	-	-
Buckshot 66.....	44.5	-	-	-	-	-	-
Terra-Vig 6792.....	40.6	-	-	-	-	-	-
<u>Maturity Group VII</u>							
Hartz H7190.....	46.8	48.6	51.9	1.3	1.0	32	10-15
Braxton.....	42.3	44.3	46.9	1.2	1.0	39	10-15
Buckshot 723.....	41.7	44.1	46.6	1.9	1.1	41	10-17
Stonewall.....	43.7	42.2	46.0	1.4	1.1	34	10-10
Colquitt.....	41.3	42.4	45.7	1.9	1.0	40	10-14
Thomas.....	44.3	40.8	45.4	1.3	1.0	36	10-13
Hagood.....	42.9	42.4	44.9	1.8	1.0	40	10-17
Hy Performer HSC-721....	38.8	38.6	44.5	2.6	1.1	36	10-12
Ransom.....	39.7	39.7	43.6	1.2	1.0	36	10-14
Deltapine 3733.....	46.9	47.3	-	-	-	-	-
Howard.....	41.9	45.5	-	-	-	-	-
Au87-547.....	42.1	45.2	-	-	-	-	-
Deltapine 3776.....	43.9	43.3	-	-	-	-	-
Hartz H 7141.....	44.8	-	-	-	-	-	-
Haskell.....	42.3	-	-	-	-	-	-
<u>Maturity Group VIII</u>							
Deltapine DPX3818.....	40.4	40.7	44.5	2.2	1.0	43	10-16
Johnston.....	39.8	40.9	44.4	2.2	1.0	35	10-17
Cobb.....	38.5	39.2	41.7	2.1	1.0	44	10-23
Cook.....	47.5	47.7	-	-	-	-	-
Pioneer 9831.....	43.6	41.2	-	-	-	-	-
Hartz HX8558.....	41.4	-	-	-	-	-	-
Test Means.....	41.8	43.8	46.1	1.7	1.1	36	
L.S.D. (.05).....	4.3						
C.V. (%).....	7.3						

The planting date for 1-year, 2-year, and 3-year averages was June 15, June 11, and June 8, respectively.

Table 17. Performance of Very Early Planted Soybean Varieties at Brewton, Alabama, 1993

Brand-Variety	Yield Per Acre Bu.	Lodging Score	Shattering Score	Average	Maturity Date
				Plant Height In.	
<u>Maturity Group V</u>					
Hutcheson.....	47.6	1.0	-	25	9-14
Deltapine 105.....	47.5	1.8	-	38	9-18
Walters.....	40.0	2.2	-	31	9-10
Rhodes.....	37.6	1.0	-	32	9-13
Essex.....	35.4	1.0	5.0	25	9-4
<u>Maturity Group VI</u>					
Young.....	50.9	1.0	-	31	9-23
Bryan.....	47.7	1.0	-	38	10-5
Sharkey.....	47.4	1.5	-	38	10-5
Leflore.....	43.5	1.0	-	36	10-3
Davis.....	43.4	1.0	-	35	9-21
<u>Maturity Group VII</u>					
Au87-547.....	50.4	1.0	-	29	10-11
Haskell.....	49.2	1.5	-	34	10-12
Stonewall.....	45.7	1.3	-	33	10-11
Au85-1814.....	35.9	1.0	-	33	10-12
Test Means.....	44.4	1.2	5.0	33	
L.S.D. (.05).....	7.4				
C.V. (%).....	11.6				

Table 18. Performance of Soybean Varieties in Preliminary Tests, 1993

Brand-Variety	Yield Per Acre		
	Northern (Belle Mina)	Central (Prattville)	Southern (Monroeville)
	Bu.	Bu.	Bu.
<u>Group IV</u>			
Asgrow A 4715.....	47.6	-	-
Hy Performer HB2-X484...	35.5	-	-
Hy Performer HY 498.....	38.3	-	-
<u>Group V</u>			
Dyna-Grow 3576.....	45.4	20.3	29.9
Hartz HX 58618.....	55.8	-	-
Hutcheson.....	51.3	27.4	31.4
Hy Performer HSC501.....	44.0	-	-
Pioneer 9584.....	49.5	-	-
<u>Group VI</u>			
Asgrow A 6297.....	54.6	26.1	-
Asgrow A 6961.....	51.3	24.3	-
Dyna-Gro 3682.....	52.3	23.0	28.8
Hy Performer HY 677.....	47.6	25.8	-
Pioneer 9692.....	53.6	28.6	-
Young.....	40.2	34.9	22.0
<u>Group VII</u>			
Asgrow A 7986.....	-	25.9	18.1
Hartz H 7141.....	-	-	26.7
Hartz H 73349.....	-	23.3	25.7
Hy Performer HB2-X733...	-	-	25.5
Hy Performer HB3-X798...	-	-	23.2
Hy Performer HSC 741....	-	-	23.3
Pioneer 9721.....	-	-	25.1
Stonewall.....	-	26.1	26.8
<u>Group VIII</u>			
Cook.....	-	26.1	29.7
Hartz HX83341.....	-	23.5	23.0
Test Means.....	47.6	25.8	25.7
L.S.D. (0.05).....	7.0	8.3	4.2
C.V. (%).....	10.3	22.5	11.5

