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# **Performance of Soybean Varieties in Alabama, 1999**

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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, 1999

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## INTRODUCTION

Soybean variety tests are conducted annually by the Alabama Agricultural Experiment Station. The eight locations used represent the major soil and climatic regions of Alabama. These locations are divided into logical soybean-growing regions. The regions and locations are as follows: Northern (Belle Mina and Crossville), Central (Prattville and Shorter), Southern (Brewton, and Monroeville), Black Belt (Marion Junction—two soils), and Gulf Coast (Fairhope).

## EXPERIMENTAL PROCEDURES

The standard tests were designed as a randomized complete block with four replications. Plot size was four 30- 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 Group IV test was drilled with seven 7-inch rows. Seeding rate was three viable seeds per foot of row. The early planted test at Brewton was arranged in an incomplete lattice square design with four replications.

Data were collected on seed yield, moisture, lodging, shattering, plant height, and maturity date. Plot yields were adjusted to 13 percent moisture and converted to bushels (60 pounds) per acre. Lodging was scored on a scale of 1 to 5 as follows: 1—almost all plants erect; 2—either all plants leaning slightly (less than 45°) or a few plants down; 3—either all plants leaning moderately (approximately 45°) or 25 to 50 percent of the plants down; 4—either all plants leaning more than 45° or 50 to 80 percent of the plants down; 5—more than 80 percent of the plants down.

Shattering was rated on a scale of 1 to 5 based on performance of the border rows 14 days after maturity. A rating of 1 indicated no shattering, a rating of 3 indicated a 4 to 8 percent shattering, and a rating of 5 meant 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 for 1999 is shown in Table 3. Most standard tests in the northern and central regions were planted late due to the lack of moisture. The normal planting dates for full season plantings in the regular tests are the first week in May, May 15 to 25, and May 25 to June 5 for northern, central, and southern Alabama locations, respectively. The Group IV test at Crossville was lost due to drought conditions.

## COMPARING VARIETIES

To help determine 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 1999 test, and for the location's or region's two- and three-year averages. The difference in yield of two varieties must exceed the L.S.D. value for one variety to be considered superior to 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.

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Since the performance of varieties varies with location and year, long-term averages from several locations are more reliable than one-year performance. Three-year regional averages are considered a reliable evaluation of the relative performance of varieties.

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**TABLE 1. CULTURAL PRACTICES FOR SOYBEAN VARIETY TESTS IN 1999**

Location	Test Type	Planting Date	Row Width	Herbicide	Fertilizer
Belle Mina	Group IV	April 19	7	Treflan	none recommended
	Standard	May 28	30	Treflan	none recommended
	Preliminary	May 28	30	Treflan	none recommended
Crossville	Group IV	Abandoned test due to drought			
	Standard	May 28	30	Scepter, Dual	300 lb. 0-20-20/acre
Prattville	Standard	May 25	30	Prowl	none recommended
	Preliminary	May 25	30	Prowl	none recommended
Shorter	Standard	May 26	30	Dual	none recommended
Marion Junction	Standard (Sumter)	June 2	36	Prowl	none recommended
	Standard (Vaiden)	June 2	36	Prowl	none recommended
Brewton	Early	May 14	36	Prowl	none recommended
	Standard	May 20	36	Dual	400 lb. 5-10-15/acre
Monroeville	Preliminary	May 22	36	Dual	300 lb. 0-20-20/acre
Fairhope	Standard	June 7	38	Dual	165 lb. 0-24-24/acre

**TABLE 2. SOIL TYPES FOR SOYBEAN TESTS, 1999**

Test Location	Soil Type
Belle Mina .....	Emory silt loam
Crossville .....	Wynnville fine sandy loam
Prattville .....	Lucedale fine sandy loam
Shorter .....	Norfolk sandy loam
Marion Junction .....	Vaiden clay
Marion Junction .....	Sumter clay
Monroeville .....	Lucedale loam
Brewton .....	Benndale fine sandy loam
Fairhope .....	Malbis fine sandy loam

TABLE 3. RAINFALL AT TEST LOCATIONS DURING GROWING SEASON, 1999

Month	Days	Belle Mina <i>in.</i>	Crossville <i>in.</i>	Shorter <i>in.</i>	Prattville <i>in.</i>	Marion Junction <i>in.</i>	Brewton <i>in.</i>	Monroeville <i>in.</i>	Fairhope <i>in.</i>
May	1-5	0.14	0.19	0.15	0.10	0.25	0.04	0.64	0.02
	6-10	3.04	2.93	1.32	0.98	0.10	0.29	0.17	0.00
	11-15	0.28	0.23	0.58	1.07	0.59	0.72	0.65	0.62
	16-20	0.21	0.72	0.91	0.68	0.17	0.63	0.96	0.34
	21-25	0.75	0.28	0.32	0.29	0.00	0.00	0.13	0.64
	26-31	0.27	0.07	0.06	0.09	0.22	3.83	1.92	1.53
		4.69	4.42	3.34	3.21	1.33	5.51	4.47	3.15
June	1-5	1.68	1.22	0.56	0.69	3.88	0.09	0.37	0.50
	6-10	0.00	0.00	0.34	0.38	0.00	0.40	0.41	1.41
	11-15	0.93	0.99	0.73	0.62	0.43	1.79	0.78	1.64
	16-20	0.00	0.06	2.22	0.91	1.10	0.54	2.01	0.83
	21-25	0.90	1.39	0.41	2.68	2.35	1.78	1.74	0.11
	26-30	3.02	6.82	4.90	4.36	4.30	4.60	2.36	3.83
		6.53	10.48	9.16	9.64	12.06	9.20	7.67	8.32
July	1-5	0.04	0.90	0.95	2.04	1.00	0.26	0.20	0.25
	6-10	0.23	0.34	1.42	2.94	0.78	2.98	0.57	2.00
	11-15	2.42	4.08	0.53	0.38	2.86	3.92	2.09	4.89
	16-20	0.00	0.00	0.50	2.58	0.02	0.00	0.69	1.26
	21-25	0.94	0.80	0.05	0.86	0.58	2.68	0.12	0.23
	26-31	0.01	0.00	0.00	1.86	0.00	2.25	0.00	1.08
		3.64	6.12	3.45	10.66	5.24	12.09	3.67	9.71
August	1-5	0.00	0.00	0.02	0.75	0.40	0.00	0.00	1.43
	6-10	0.00	0.00	0.36	0.85	0.33	2.72	0.88	1.07
	11-15	0.16	0.31	0.00	0.00	0.00	2.47	0.00	1.38
	16-20	0.03	0.89	0.00	0.03	0.00	0.08	1.28	0.00
	21-25	0.00	0.05	1.61	0.83	0.12	2.11	0.22	0.00
	26-31	0.00	0.36	0.45	0.13	0.48	0.56	0.02	0.00
		0.19	1.61	2.44	2.59	1.33	7.94	2.40	3.88
September	1-5	0.00	0.00	0.00	0.37	0.35	0.57	0.49	0.62
	6-10	0.16	0.45	0.57	0.77	1.52	1.53	0.35	1.12
	11-15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	16-20	0.00	0.00	0.37	0.02	0.00	0.00	0.07	0.22
	21-25	0.21	0.48	0.12	0.49	0.00	0.00	0.90	0.00
	26-30	0.19	0.77	1.02	0.13	1.45	0.65	0.25	0.31
		0.56	1.70	2.08	1.78	3.32	2.75	2.06	2.27
October	1-5	0.00	0.15	1.21	0.72	2.47	0.88	0.00	0.35
	6-10	1.16	1.91	1.62	2.10	3.70	1.36	2.33	2.35
	11-15	0.05	0.45	1.85	0.61	0.22	0.54	0.00	1.67
	16-20	0.02	0.07	0.06	0.00	0.08	0.02	0.04	0.05
	21-25	0.00	0.00	0.03	0.09	0.09	0.05	0.00	0.00
	26-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1.23	2.58	4.77	3.52	6.56	2.85	2.37	4.42

**TABLE 4. PERFORMANCE OF GROUP IV SOYBEAN VARIETIES IN NORTHERN ALABAMA, 1999**

Brand-Variety	Yield Per Acre <i>bu.</i>	Average			Maturity Date
		Lodging Score	Shattering Score	Plant Height ( <i>in.</i> )	
Maturity Group IV					
Deltapine DP 3478	33.5	1.0	6.3	29	8-18
AgriPro AP 4880	32.8	1.0	5.0	30	8-20
AgriPro AP 4888RR	29.3	1.0	3.8	31	8-19
Delta King 4868RR	27.9	1.0	1.3	31	8-19
Delta King 4965RR	27.4	1.0	1.3	32	8-18
Deltapine DP 4750 RR	24.3	1.0	1.3	32	8-24
FFR RT 467	23.7	1.0	0.0	31	8-19
Terra TS 4792	23.4	1.0	2.5	36	8-19
Pioneer 9492	22.9	1.0	1.3	28	8-19
Deltapine DP 4690RR	22.4	1.0	1.0	31	8-17
Delta King 4762RR	22.1	1.0	3.8	35	8-23
Hartz H 4994RR	22.0	1.0	0.0	31	8-31
FFR 439	21.5	1.0	6.3	30	8-17
Terra TS 466RR	20.3	1.0	0.0	36	8-19
Deltapine DP 4909	18.4	1.0	0.0	33	8-30
Sure-Grow SG 498 RR	17.3	1.0	0.0	27	8-29
FFR 495	16.5	1.0	0.0	35	8-25
FFR 4985-ST5	15.7	1.0	0.0	33	8-31
Terra TS 490	9.4	1.0	0.0	41	9-1
Hartz H 4998RR	9.0	1.0	0.0	49	9-2
Terra RVS 499	8.8	1.0	0.0	41	9-2
Sure-Grow SG 468 RR	8.2	1.0	5.0	32	10-20
AgriPro AP 4980RR	8.0	1.0	0.0	37	8-30
<b>Test Means</b>	<b>20.2</b>	<b>1.0</b>	<b>2.1</b>	<b>33</b>	
<b>L.S.D. (.05)</b>	<b>5.9</b>				
<b>C.V. (%)</b>	<b>20.6</b>				

TABLE 5. PERFORMANCE OF SOYBEAN VARIETIES IN NORTHERN ALABAMA, 1999

Brand-Variety	—Yield Per Acre—		Regional Average			
	Belle Mina <i>bu.</i>	Crossville <i>bu.</i>	Lodging Score	Shattering Score	Plant Height ( <i>in.</i> )	Maturity Date
Maturity Group V						
Asgrow A 5959	10.3	39.2	1.3	1.0	39	10-3
Hutcheson	9.6	37.0	1.1	1.0	35	9-30
FFR RT 517	8.7	37.6	1.4	1.1	37	9-23
Hartz H 5545RR	8.6	35.0	1.4	1.8	35	9-30
Delta King 5661RR	7.7	35.3	1.1	1.0	38	10-4
Sure-Grow SG 597 RR	7.7	32.4	1.0	1.0	46	10-4
Pioneer 95B32	7.3	36.5	1.0	1.1	32	9-20
Hartz H5350RR	7.3	33.0	1.5	1.0	38	10-2
Delta King 5762RR	7.1	35.4	1.1	1.0	42	10-5
FFR 594	7.1	32.6	1.8	1.1	40	10-7
Delta King 5995	7.0	31.8	1.1	1.0	37	10-5
Pioneer 95B53	6.9	34.6	1.3	1.0	36	9-27
Pioneer 9594	6.9	32.3	1.8	1.0	40	10-2
Deltapine DP 5655	6.7	34.8	2.1	1.0	43	10-2
Hartz H 5999RR	6.7	30.3	1.6	1.0	39	10-4
AgriPro HY574	6.6	29.5	1.1	1.0	38	10-5
Deltapine DP 5354	6.6	36.4	1.8	1.3	38	9-27
AgriPro AP588RR	6.5	34.6	1.0	1.1	39	10-3
Delta King 5850	6.2	37.8	1.4	1.0	36	10-1
Terra RVS Robin-5	6.2	37.9	1.1	1.0	35	10-7
Dyna-Gro 3538RR	6.1	28.8	1.3	1.0	38	10-5
Pioneer 95B33	6.1	40.5	1.0	1.1	36	9-24
Asgrow A 5944	6.1	33.0	1.3	1.1	38	10-8
FFR RT 587	6.0	36.2	1.1	1.0	40	10-5
Deltapine DP 5644 RR	5.6	34.3	1.1	1.0	38	10-2
Hartz H5050	5.6	29.0	1.8	1.0	47	10-2
FFR RT 557	5.6	34.8	1.5	1.0	40	9-26
Delta King 5664 RR	5.4	37.6	1.0	1.0	39	10-4
Hartz HX5950RR	5.4	34.6	2.0	1.0	42	10-1
Delta King 5961 RR	5.4	33.2	1.3	1.0	39	10-7
Terra TS 520	5.1	34.2	1.0	1.0	40	9-28
Dyna-Gro 3585RR	5.1	30.3	1.3	1.0	37	10-7
FFR RT 540	5.1	34.9	1.9	1.1	38	9-24
Asgrow AG5901	—	—	—	—	—	—
Maturity Group VI						
Hartz H6255RR	6.4	29.1	1.1	1.0	39	10-9
Hartz H6500	5.8	25.6	1.0	1.0	36	10-10
Pioneer 9692	5.8	32.8	1.1	1.0	39	10-19
FFR 665	5.7	40.2	1.5	1.0	38	10-8
Boggs	5.6	28.3	1.1	1.0	35	10-11
Hartz H6686RR	5.0	19.8	1.1	1.0	41	10-18
Asgrow AG 6101	4.8	33.0	1.0	1.0	41	10-6
Musen	4.4	28.3	1.1	1.0	40	10-20
Pioneer 96B01	4.4	32.0	1.1	1.0	40	10-5
Dillon	4.0	27.5	1.1	1.0	40	10-9
AU 94-507	—	—	—	—	—	—
<b>Test Means</b>	<b>6.3</b>	<b>33.3</b>	<b>1.3</b>	<b>1.0</b>	<b>39</b>	
<b>L.S.D. (.05)</b>	<b>2.5</b>	<b>5.1</b>				
<b>C.V. (%)</b>	<b>27.6</b>	<b>11.0</b>				



**TABLE 6. PERFORMANCE OF SOYBEAN VARIETIES IN NORTHERN ALABAMA,  
THREE-YEAR SUMMARY, 1997-99**

Brand-Variety	Yield Per Acre			3-Year Average			
	1999 <i>bu.</i>	2-Yr. Avg. <i>bu.</i>	3-Yr. Avg. <i>bu.</i>	Lodging Score	Shattering Score	Plant Height ( <i>in.</i> )	Maturity Date
Maturity Group V							
Asgrow A 5959	24.7	25.3	29.3	1.5	1.0	32	9-30
Hutcheson	23.3	23.5	27.0	1.2	1.1	30	9-30
Pioneer 9594	19.6	20.8	25.6	1.7	1.0	34	10-1
Asgrow A 5944	19.5	20.5	25.5	1.4	1.2	32	10-4
Terra RVS Robin-5	22.1	20.8	24.3	1.2	1.0	28	10-3
Hartz H5050	17.3	18.6	23.9	1.6	1.1	39	10-1
AgriPro HY574	18.0	19.2	23.0	1.8	1.0	33	10-2
Pioneer 95B33	23.3	25.0	—	—	—	—	—
Deltapine DP 5354	21.5	22.0	—	—	—	—	—
AgriPro AP588RR	20.5	21.7	—	—	—	—	—
Deltapine DP 5644 RR	19.9	20.9	—	—	—	—	—
Delta King 5664 RR	21.5	20.8	—	—	—	—	—
Hartz H5350RR	20.1	20.8	—	—	—	—	—
Delta King 5961 RR	19.3	19.2	—	—	—	—	—
Sure-Grow SG 597 RR	20.1	18.9	—	—	—	—	—
Terra TS 520	19.7	18.7	—	—	—	—	—
FFR RT 517	23.2	—	—	—	—	—	—
Delta King 5850	22.0	—	—	—	—	—	—
Pioneer 95B32	21.9	—	—	—	—	—	—
Hartz H 5545RR	21.8	—	—	—	—	—	—
Delta King 5661RR	21.5	—	—	—	—	—	—
Delta King 5762RR	21.3	—	—	—	—	—	—
FFR RT 587	21.1	—	—	—	—	—	—
Pioneer 95B53	20.8	—	—	—	—	—	—
Deltapine DP 5655	20.7	—	—	—	—	—	—
FFR RT 557	20.2	—	—	—	—	—	—
Hartz HX5950RR	20.0	—	—	—	—	—	—
FFR RT 540	20.0	—	—	—	—	—	—
FFR 594	19.9	—	—	—	—	—	—
Delta King 5995	19.4	—	—	—	—	—	—
Hartz H 5999RR	18.5	—	—	—	—	—	—
Dyna-Gro 3585RR	17.7	—	—	—	—	—	—
Dyna-Gro 3538RR	17.4	—	—	—	—	—	—
Maturity Group VI							
Pioneer 9692	19.3	18.2	24.0	1.5	1.1	35	10-14
Dillon	15.7	16.6	22.8	1.3	1.1	34	10-6
Musen	16.3	16.8	22.4	1.5	1.0	36	10-16
Pioneer 96B01	18.2	19.5	—	—	—	—	—
Boggs	16.9	18.0	—	—	—	—	—
Hartz H6255RR	17.7	18.0	—	—	—	—	—
FFR 665	22.9	—	—	—	—	—	—
Asgrow AG 6101	18.9	—	—	—	—	—	—
Hartz H6500	15.7	—	—	—	—	—	—
Hartz H6686RR	12.4	—	—	—	—	—	—
<b>Test Means</b>	<b>19.8</b>	<b>20.2</b>	<b>24.8</b>	<b>1.5</b>	<b>1.0</b>	<b>33</b>	
<b>L.S.D. (.05)</b>	<b>4.0</b>						
<b>C.V. (%)</b>	<b>14.4</b>						

TABLE 7. PERFORMANCE OF SOYBEAN VARIETIES AT PRATTVILLE, ALABAMA, 1999

Brand-Variety	Yield Per Acre <i>bu.</i>	Average			Maturity Date
		Lodging Score	Shattering Score	Plant Height ( <i>in.</i> )	
Maturity Group V					
Deltapine DP 5655	44.7	1.0	1.0	24	9-25
Terra RVS Robin-5	44.5	1.0	1.0	19	9-21
Deltapine DP 5354	44.5	1.0	1.0	21	9-19
AgriPro HY574	41.1	1.0	1.0	19	9-22
Terra TS 556RR	41.0	1.0	1.0	17	9-18
Sure-Grow SG 597 RR	40.8	1.0	1.0	27	9-25
AgriPro AP588RR	38.8	1.0	1.0	21	9-23
Hutcheson	37.6	1.0	1.0	15	9-18
FFR 594	37.1	1.0	1.0	21	9-22
Terra TS 520	33.9	1.0	1.0	28	9-25
Dyna-Gro 3585RR	33.8	1.0	1.0	18	9-23
Dyna-Gro 3538RR	32.9	1.0	1.0	18	9-20
Terra TS 558RR	32.3	1.0	1.0	19	9-20
Maturity Group VI					
Pioneer 96B21	44.2	1.0	1.0	25	10-1
Dillon	41.5	1.0	1.0	25	10-1
FFR 688	41.3	1.0	1.0	21	10-5
AU 94-507	40.5	1.0	1.0	19	10-1
Boggs	40.3	1.0	1.0	24	10-5
Terra RVS 678	37.6	1.0	1.0	25	10-5
Sure-Grow SG 678 RR	37.3	1.0	1.0	23	10-8
FFR 665	36.2	1.0	1.0	22	10-10
Musen	33.8	1.0	1.0	26	10-11
FFR EXP RT 47355	33.8	1.0	1.0	25	10-12
Pioneer 9692	29.8	1.0	1.0	20	10-8
Terra TS 608RR	27.6	1.0	1.0	19	9-30
Maturity Group VII					
FFR 731	36.4	1.0	1.0	24	10-5
Benning	35.7	1.0	1.0	25	10-9
Pioneer 97B62	35.5	1.0	1.0	27	10-17
Haskell	34.9	1.0	1.0	25	10-13
Stonewall	33.8	1.0	3.5	24	10-7
Pioneer 97B61	32.8	1.0	1.0	27	10-14
AU 94-517	32.8	1.0	1.0	22	10-6
FFR EXP RT 47360	32.6	1.0	1.0	25	10-15
Sure-Grow SG 708 RR	32.6	1.0	3.5	27	10-10
Carver	32.0	1.0	3.5	25	10-7
Hagood	31.0	1.0	3.5	28	10-18
Sure-Grow SG 759 RR	30.8	1.0	3.5	25	10-14
Braxton	29.5	1.0	3.5	26	10-19
<b>Test Means</b>	<b>36.2</b>	<b>1.0</b>	<b>1.4</b>	<b>23</b>	
<b>L.S.D. (.05)</b>	<b>6.0</b>				
<b>C.V. (%)</b>	<b>11.8</b>				

**TABLE 8. PERFORMANCE OF SOYBEAN VARIETIES AT PRATTVILLE, ALABAMA,  
THREE-YEAR SUMMARY, 1997-99**

Brand-Variety	Yield Per Acre			3-Year Average			
	1998 <i>bu.</i>	2-Yr. Avg. <i>bu.</i>	3-Yr. Avg. <i>bu.</i>	Lodging Score	Shattering Score	Plant Height ( <i>in.</i> )	Maturity Date
Maturity Group V							
Hutcheson	37.6	35.0	35.9	1.0	1.0	20	9-22
AgriPro HY574	41.1	32.3	32.3	1.0	1.0	24	9-24
Terra RVS Robin-5	44.5	36.7	—	—	—	—	—
AgriPro AP588RR	38.8	35.2	—	—	—	—	—
Terra TS 520	33.9	29.1	—	—	—	—	—
Sure-Grow SG 597 RR	40.8	27.8	—	—	—	—	—
Deltapine DP 5655	44.7	—	—	—	—	—	—
Deltapine DP 5354	44.5	—	—	—	—	—	—
Terra TS 556RR	41.0	—	—	—	—	—	—
FFR 594	37.1	—	—	—	—	—	—
Dyna-Gro 3585RR	33.8	—	—	—	—	—	—
Dyna-Gro 3538RR	32.9	—	—	—	—	—	—
Terra TS 558RR	32.3	—	—	—	—	—	—
Maturity Group VI							
Pioneer 9692	29.8	30.3	28.8	1.0	1.0	25	10-7
Dillon	41.5	33.2	28.7	1.0	1.0	27	10-1
Musen	33.8	32.4	28.1	1.0	1.0	26	10-11
Boggs	40.3	32.2	—	—	—	—	—
Sure-Grow SG 678 RR	37.3	31.9	—	—	—	—	—
Terra RVS 678	37.6	29.4	—	—	—	—	—
Pioneer 96B21	44.2	—	—	—	—	—	—
FFR 688	41.3	—	—	—	—	—	—
AU 94-507	40.5	—	—	—	—	—	—
FFR 665	36.2	—	—	—	—	—	—
FFR EXP RT 47355	33.8	—	—	—	—	—	—
Terra TS 608RR	27.6	—	—	—	—	—	—
Maturity Group VII							
Pioneer 97B61	32.8	35.5	28.8	1.0	1.0	30	10-15
Carver	32.0	32.7	28.4	1.0	1.8	27	10-5
Benning	35.7	30.4	27.3	1.0	1.0	26	10-11
Stonewall	33.8	31.0	26.7	1.0	1.8	27	10-10
Haskell	34.9	27.2	24.1	1.1	1.0	26	10-12
Sure-Grow SG 708 RR	32.6	26.3	—	—	—	—	—
FFR 731	36.4	—	—	—	—	—	—
Pioneer 97B62	35.5	—	—	—	—	—	—
AU 94-517	32.8	—	—	—	—	—	—
FFR EXP RT 47360	32.6	—	—	—	—	—	—
Hagood	31.0	—	—	—	—	—	—
Sure-Grow SG 759 RR	30.8	—	—	—	—	—	—
Braxton	29.5	—	—	—	—	—	—
<b>Test Means</b>	<b>36.2</b>	<b>31.6</b>	<b>28.9</b>	<b>1.0</b>	<b>1.2</b>	<b>26</b>	
<b>L.S.D. (.05)</b>	<b>6.0</b>						
<b>C.V. (%)</b>	<b>11.8</b>						

**TABLE 9. PERFORMANCE OF SOYBEAN VARIETIES ON SUMTER SOIL,  
MARION JUNCTION, ALABAMA, 1999**

Brand-Variety	Yield Per Acre <i>bu.</i>	Average			Iron Chlor. Rating*	Maturity Date
		Lodging Score	Shattering Score	Plant Height ( <i>in.</i> )		
Maturity Group IV						
Terra TS 4989RR	2.4	1.0	4.3	13	4.50	10-17
Terra TS 4907RR	1.5	1.0	—	11	6.00	10-23
Terra TS 4979RR	1.2	1.0	5.0	11	6.00	10-19
Maturity Group V						
Deltapine DP 5989	12.6	1.0	3.0	26	3.00	—
Hartz H 5545RR	10.0	1.0	5.0	17	1.00	10-18
AgriPro HY574	9.8	1.0	4.0	20	2.00	10-29
Hartz H 5999RR	7.5	1.0	5.0	16	1.50	10-10
FFR 594	7.3	1.0	4.0	19	3.00	10-26
Hartz H5050	7.0	1.0	4.0	21	3.50	—
Terra TS 520	7.0	1.0	5.0	20	3.00	10-26
Hartz H 5181RR	6.8	1.0	4.0	17	4.00	10-23
Deltapine DP 5354	6.2	1.0	4.3	17	2.50	10-20
Hartz HX5950RR	5.7	1.0	3.7	22	3.00	10-29
Terra RVS Robin-5	5.5	1.0	5.0	13	1.00	10-22
Hartz H5350RR	5.5	1.0	4.0	16	4.50	—
Deltapine DP 5655	5.4	1.0	4.0	19	4.00	10-29
TS 5707 RR	4.1	1.0	5.0	14	7.00	10-29
TS 5015 RR	4.0	1.0	3.7	14	5.50	10-21
TS 5011 RR	3.8	1.0	—	13	6.50	10-20
Deltapine DP 5644 RR	3.8	1.0	3.0	18	4.00	10-25
Deltapine DP 5690 RR	3.4	1.0	—	15	5.00	10-21
Sure-Grow SG 597 RR	3.1	1.0	—	22	5.00	10-24
TS 5770 RR	3.0	1.0	3.0	16	6.00	10-24
Hutcheson	2.9	1.0	4.0	12	5.50	10-21
Terra TS 558RR	2.4	1.0	—	11	6.50	10-22
Dyna-Gro 3585RR	2.1	1.0	3.0	12	6.50	10-20
Terra TS 556RR	2.1	1.0	5.0	14	6.50	10-21
TS 5799 RR	1.8	1.0	—	11	7.00	10-13
Dyna-Gro 3538RR	—	1.0	—	10	9.50	—
TS 5879 RR	—	1.0	—	10	7.50	10-20
Maturity Group VI						
Pioneer 9692	14.8	1.0	3.0	21	1.50	10-24
FFR 688	14.0	1.0	3.0	16	1.00	10-26
Deltapine DP 6880 RR	11.2	1.0	—	22	2.00	10-26
Terra RVS 678	10.7	1.0	4.3	21	1.50	10-20
Boggs	10.5	1.0	5.0	19	1.00	10-11
Hartz H6686RR	9.6	1.0	—	20	2.50	10-26
Dillon	9.3	1.0	3.0	19	2.00	10-22
FFR 665	9.1	1.0	—	21	2.00	—
Hartz H6500	8.3	1.0	3.0	18	4.00	10-20
Musen	8.2	1.0	—	18	2.50	10-27
Hartz H6255RR	7.4	1.0	—	18	4.00	10-18
Terra TS 608RR	6.1	1.0	4.0	17	2.00	10-25
AU 94-507	5.6	1.0	5.0	15	2.50	10-17
FFR EXP RT 47355	3.7	1.0	—	18	4.50	10-20
Terra TS 6575RR	3.5	1.0	—	13	4.50	10-26
Terra TS 6299RR	2.9	1.0	—	13	6.00	10-24
Deltapine DP 6200 RR	2.1	1.0	—	17	5.50	10-20
Sure-Grow SG 678 RR	—	1.0	—	11	6.50	10-24
TS 6060RR	—	1.0	—	13	8.00	10-25

*continued*

**TABLE 9, CONTINUED. PERFORMANCE OF SOYBEAN VARIETIES ON SUMTER SOIL,  
MARION JUNCTION, ALABAMA, 1999**

Brand-Variety	Yield Per Acre <i>bu.</i>	Lodging		Shattering		Average		Maturity Date
		Score	Score	Plant Height ( <i>in.</i> )	Iron Chlor. Rating*			
Maturity Group VII								
Sure-Grow SG 708 RR	14.3	1.0	3.0	25	2.00	10-25		
Haskell	12.8	1.0	—	21	1.00	10-25		
Deltapine DP 7731	12.4	1.0	3.0	21	1.50	10-29		
Stonewall	12.1	1.0	—	19	2.00	10-25		
Carver	11.3	1.0	—	19	2.00	10-26		
Hartz H 7152RR	10.5	1.0	—	17	3.00	10-24		
Sure-Grow SG 759 RR	9.3	1.0	—	19	4.00	10-20		
Benning	9.0	1.0	—	20	3.50	10-29		
Braxton	8.9	1.0	—	22	1.00	10-29		
AgriPro AP 711 RR	8.9	1.0	—	21	3.00	10-25		
AU 94-517	7.6	1.0	4.0	17	4.00	10-24		
FFR 731	6.9	1.0	—	18	4.00	10-25		
Hagood	6.8	1.0	—	21	3.00	—		
FFR EXP RT 47360	3.6	1.0	—	18	5.00	10-19		
Hartz H 7550RR	3.2	1.0	—	19	4.50	—		
Deltapine DP 7375 RR	2.8	1.0	—	17	6.00	—		
<b>Test Means</b>	<b>6.8</b>	<b>1.0</b>	<b>4.0</b>	<b>17</b>	<b>3.90</b>			
<b>L.S.D. (.05)</b>	<b>3.6</b>							
<b>C.V. (%)</b>	<b>38.3</b>							

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

**TABLE 10. PERFORMANCE OF SOYBEAN VARIETIES ON SUMTER SOIL, MARION JUNCTION, ALABAMA,  
THREE-YEAR SUMMARY, 1997-99**

Brand-Variety	Yield Per Acre			3-Year Average			Maturity Date
	1999 <i>bu.</i>	2-Yr. Avg. <i>bu.</i>	3-Yr. Avg. <i>bu.</i>	Lodging Score	Shattering Score	Plant Height ( <i>in.</i> )	
Maturity Group IV							
Terra TS 4989RR	2.4	—	—	—	—	—	—
Terra TS 4907RR	1.5	—	—	—	—	—	—
Terra TS 4979RR	1.2	—	—	—	—	—	—
Maturity Group V							
AgriPro HY574	9.8	8.4	15.9	1.0	4.0	19	10-13
Hartz H5050	7.0	5.7	14.8	1.0	4.0	20	10-11
Hutcheson	2.9	3.6	12.7	1.0	4.0	16	10-11
Terra RVS Robin-5	5.5	5.8	—	—	—	—	—
Terra TS 520	7.0	5.5	—	—	—	—	—
Sure-Grow SG 597 RR	3.1	3.7	—	—	—	—	—
Deltapine DP 5989	12.6	—	—	—	—	—	—
Hartz H 5545RR	10.0	—	—	—	—	—	—
Hartz H 5999RR	7.5	—	—	—	—	—	—
FFR 594	7.3	—	—	—	—	—	—
Hartz H 5181RR	6.8	—	—	—	—	—	—
Deltapine DP 5354	6.2	—	—	—	—	—	—
Hartz HX5950RR	5.7	—	—	—	—	—	—
Hartz H5350RR	5.5	—	—	—	—	—	—
Deltapine DP 5655	5.4	—	—	—	—	—	—

*continued*

**TABLE 10, CONTINUED. PERFORMANCE OF SOYBEAN VARIETIES ON SUMTER SOIL,  
MARION JUNCTION, ALABAMA, THREE-YEAR SUMMARY, 1997-99**

Brand-Variety	Yield Per Acre			3-Year Average			
	1999 <i>bu.</i>	2-Yr. Avg. <i>bu.</i>	3-Yr. Avg. <i>bu.</i>	Lodging Score	Shattering Score	Plant Height ( <i>in.</i> )	Maturity Date
TS 5707 RR	4.1	—	—	—	—	—	—
TS 5015 RR	4.0	—	—	—	—	—	—
TS 5011 RR	3.8	—	—	—	—	—	—
Deltapine DP 5644 RR	3.8	—	—	—	—	—	—
Deltapine DP 5690 RR	3.4	—	—	—	—	—	—
TS 5770 RR	3.0	—	—	—	—	—	—
Terra TS 558RR	2.4	—	—	—	—	—	—
Dyna-Gro 3585RR	2.1	—	—	—	—	—	—
Terra TS 556RR	2.1	—	—	—	—	—	—
TS 5799 RR	1.8	—	—	—	—	—	—
Maturity Group VI							
Pioneer 9692	14.8	12.3	17.1	1.0	3.0	21	10-20
Dillon	9.3	6.5	12.6	1.0	3.0	20	10-14
Musen	8.2	7.9	11.8	1.0	—	20	10-20
Deltapine DP 6880 RR	11.2	9.9	—	—	—	—	—
Boggs	10.5	9.5	—	—	—	—	—
Terra RVS 678	10.7	9.3	—	—	—	—	—
Hartz H6255RR	7.4	5.9	—	—	—	—	—
FFR 688	14.0	—	—	—	—	—	—
Hartz H6686RR	9.6	—	—	—	—	—	—
FFR 665	9.1	—	—	—	—	—	—
Hartz H6500	8.3	—	—	—	—	—	—
Terra TS 608RR	6.1	—	—	—	—	—	—
AU 94-507	5.6	—	—	—	—	—	—
FFR EXP RT 47355	3.7	—	—	—	—	—	—
Terra TS 6575RR	3.5	—	—	—	—	—	—
Terra TS 6299RR	2.9	—	—	—	—	—	—
Deltapine DP 6200 RR	2.1	—	—	—	—	—	—
Maturity Group VII							
Stonewall	12.1	10.8	17.7	1.0	—	21	10-20
Haskell	12.8	12.7	16.2	1.0	—	23	10-25
Benning	9.0	9.1	15.2	1.0	—	23	10-26
Braxton	8.9	11.4	14.8	1.0	—	24	10-26
Carver	11.3	9.0	14.3	1.0	—	20	10-17
Hagood	6.8	6.7	11.8	1.0	—	26	10-25
Sure-Grow SG 708 RR	14.3	12.5	—	—	—	—	—
Deltapine DP 7375 RR	2.8	3.5	—	—	—	—	—
Deltapine DP 7731	12.4	—	—	—	—	—	—
Hartz H 7152RR	10.5	—	—	—	—	—	—
Sure-Grow SG 759 RR	9.3	—	—	—	—	—	—
AgriPro AP 711 RR	8.9	—	—	—	—	—	—
AU 94-517	7.6	—	—	—	—	—	—
FFR 731	6.9	—	—	—	—	—	—
FFR EXP RT 47360	3.6	—	—	—	—	—	—
Hartz H 7550RR	3.2	—	—	—	—	—	—
<b>Test Means</b>	<b>6.8</b>	<b>8.1</b>	<b>14.6</b>	<b>1.0</b>	<b>3.6</b>	<b>21</b>	
<b>L.S.D. (.05)</b>	<b>3.6</b>						
<b>C.V. (%)</b>	<b>38.3</b>						

**TABLE 11. PERFORMANCE OF SOYBEAN VARIETIES ON VAIDEN SOIL,  
MARION JUNCTION, ALABAMA, 1999**

Brand-Variety	Yield Per Acre <i>bu.</i>	Average			Maturity Date
		Lodging Score	Shattering Score	Plant Height ( <i>in.</i> )	
Maturity Group IV					
Terra TS 4989RR	19.4	1.0	—	21	9-27
Terra TS 4979RR	15.0	1.0	—	21	10-1
Terra TS 4907RR	12.4	1.0	—	13	9-28
Maturity Group V					
Deltapine DP 5989	39.8	1.0	—	31	10-2
Deltapine DP 5655	36.2	1.0	—	26	9-28
Hartz H5050	33.3	1.0	—	21	9-28
Hartz HX5950RR	32.7	1.0	—	27	9-27
Terra RVS Robin-5	32.2	1.0	—	19	9-28
Hartz H5350RR	32.0	1.0	—	22	9-29
Deltapine DP 5354	30.6	1.0	—	23	9-27
Hartz H 5545RR	30.6	1.0	—	18	9-29
Hartz H 5181RR	30.6	1.0	—	19	10-4
FFR 594	30.6	1.0	—	24	10-3
Sure-Grow SG 597 RR	30.5	1.0	—	24	10-4
AgriPro HY574	29.8	1.0	—	22	9-30
Hartz H 5999RR	29.3	1.0	—	20	9-29
Terra TS 520	27.1	1.0	—	26	10-2
TS 5770 RR	26.6	1.0	—	18	10-2
Terra TS 558RR	26.1	1.0	—	18	9-30
Terra TS 556RR	24.8	1.0	—	18	9-27
Dyna-Gro 3585RR	24.7	1.0	—	19	10-2
Hutcheson	24.6	1.0	—	17	9-28
TS 5015 RR	24.2	1.0	—	18	9-30
TS 5799 RR	22.0	1.0	—	15	10-2
Dyna-Gro 3538RR	18.8	1.0	—	16	10-3
TS 5707 RR	18.2	1.0	—	17	10-16
TS 5011 RR	15.5	1.0	—	18	10-11
TS 5879 RR	12.2	1.0	—	13	10-17
Maturity Group VI					
Pioneer 9692	37.9	1.0	—	24	10-18
Terra RVS 678	36.9	1.0	—	30	10-11
Dillon	36.7	1.0	—	24	10-4
FFR 665	35.8	1.0	—	26	10-14
Deltapine DP 6880 RR	34.8	1.0	—	29	10-14
Hartz H6500	34.6	1.0	—	23	10-4
Sure-Grow SG 678 RR	34.3	1.0	—	22	10-12
FFR 688	33.5	1.0	—	23	10-14
Hartz H6255RR	33.5	1.0	—	24	10-4
Hartz H6686RR	31.6	1.0	—	27	10-18
Boggs	31.3	1.0	—	22	10-12
Musen	31.2	1.0	—	29	10-18
FFR EXP RT 47355	31.0	1.0	—	27	10-16
Terra TS 6575RR	29.5	1.0	—	31	10-13
Terra TS 6299RR	29.2	1.0	—	22	10-6
Terra TS 608RR	28.0	1.0	—	20	10-2
TS 6060RR	25.9	1.0	—	18	10-6
AU 94-507	24.0	1.0	—	20	10-20

*continued*

**TABLE 11, CONTINUED. PERFORMANCE OF SOYBEAN VARIETIES ON VAIDEN SOIL,  
MARION JUNCTION, ALABAMA, 1999**

Brand-Variety	Yield Per Acre <i>bu.</i>	Average				Maturity Date
		Lodging Score	Shattering Score	Plant Height ( <i>in.</i> )		
Maturity Group VII						
Haskell	41.1	1.0	—	26	10-18	
FFR 731	35.6	1.0	—	27	10-14	
Sure-Grow SG 708 RR	35.4	1.0	—	30	10-16	
Benning	34.9	1.0	—	30	10-18	
Braxton	34.4	1.0	—	28	10-18	
Carver	34.4	1.0	—	26	10-15	
Hartz H 7550RR	34.3	1.5	—	31	10-21	
FFR EXP RT 47360	33.4	1.0	—	25	10-17	
Hagood	32.5	2.0	—	30	10-20	
Stonewall	31.5	1.0	—	22	10-18	
Hartz H 7152RR	28.5	1.0	—	21	10-18	
Sure-Grow SG 759 RR	27.9	1.0	—	22	10-18	
AgriPro AP 711 RR	26.8	1.0	—	32	10-20	
AU 94-517	23.7	1.0	—	17	10-15	
<b>Test M-ans</b>	<b>29.4</b>	<b>1.0</b>	—	<b>23</b>		
<b>L.S.D. (.05)</b>	<b>4.6</b>					
<b>C.V. (%)</b>	<b>11.3</b>					

**TABLE 12. PERFORMANCE OF SOYBEAN VARIETIES ON VAIDEN SOIL,  
MARION JUNCTION, ALABAMA, THREE-YEAR SUMMARY, 1997-99**

Brand-Variety	Yield Per Acre			3-Year Average			
	1999 <i>bu.</i>	2-Yr. Avg. <i>bu.</i>	3-Yr. Avg. <i>bu.</i>	Lodging Score	Shattering Score	Plant Height ( <i>in.</i> )	Maturity Date
Maturity Group IV							
Terra TS 4989RR	19.4	—	—	—	—	—	—
Terra TS 4979RR	15.0	—	—	—	—	—	—
Terra TS 4907RR	12.4	—	—	—	—	—	—
Maturity Group V							
Hartz H5050	33.3	33.0	37.0	1.1	—	24	10-1
AgriPro HY574	29.8	31.9	33.9	1.0	—	24	10-3
Hutcheson	24.6	28.0	29.9	1.0	—	17	9-28
Terra RVS Robin-5	32.2	32.6	—	—	—	—	—
Sure-Grow SG 597 RR	30.5	26.9	—	—	—	—	—
Hartz H5350RR	32.0	25.8	—	—	—	—	—
Terra TS 520	27.1	24.8	—	—	—	—	—
Deltapine DP 5989	39.8	—	—	—	—	—	—
Deltapine DP 5655	36.2	—	—	—	—	—	—
Hartz HX5950RR	32.7	—	—	—	—	—	—
Deltapine DP 5354	30.6	—	—	—	—	—	—
Hartz H 5545RR	30.6	—	—	—	—	—	—
Hartz H 5181RR	30.6	—	—	—	—	—	—
FFR 594	30.6	—	—	—	—	—	—
Hartz H 5999RR	29.3	—	—	—	—	—	—
TS 5770 RR	26.6	—	—	—	—	—	—

*continued*



**TABLE 12, CONTINUED. PERFORMANCE OF SOYBEAN VARIETIES ON VAIDEN SOIL,  
MARION JUNCTION, ALABAMA, THREE-YEAR SUMMARY, 1997-99**

Brand-Variety	Yield Per Acre			3-Year Average			
	1999 <i>bu.</i>	2-Yr. Avg. <i>bu.</i>	3-Yr. Avg. <i>bu.</i>	Lodging Score	Shattering Score	Plant Height ( <i>in.</i> )	Maturity Date
Terra TS 558RR	26.1	—	—	—	—	—	—
Terra TS 556RR	24.8	—	—	—	—	—	—
Dyna-Gro 3585RR	24.7	—	—	—	—	—	—
TS 5015 RR	24.2	—	—	—	—	—	—
TS 5799 RR	22.0	—	—	—	—	—	—
Dyna-Gro 3538RR	18.8	—	—	—	—	—	—
TS 5707 RR	18.2	—	—	—	—	—	—
TS 5011 RR	15.5	—	—	—	—	—	—
TS 5879 RR	12.2	—	—	—	—	—	—
Maturity Group VI							
Pioneer 9692	37.9	39.6	41.7	1.1	—	25	10-18
Dillon	36.7	37.9	39.1	1.0	—	25	10-6
Musen	31.2	33.2	33.5	1.0	—	25	10-17
Terra RVS 678	36.9	38.2	—	—	—	—	—
Deltapine DP 6880 RR	34.8	36.1	—	—	—	—	—
Sure-Grow SG 678 RR	34.3	35.0	—	—	—	—	—
Boggs	31.3	33.9	—	—	—	—	—
Hartz H6255RR	33.5	30.3	—	—	—	—	—
FFR 665	35.8	—	—	—	—	—	—
Hartz H6500	34.6	—	—	—	—	—	—
FFR 688	33.5	—	—	—	—	—	—
Hartz H6686RR	31.6	—	—	—	—	—	—
FFR EXP RT 47355	31.0	—	—	—	—	—	—
Terra TS 6575RR	29.5	—	—	—	—	—	—
Terra TS 6299RR	29.2	—	—	—	—	—	—
Terra TS 608RR	28.0	—	—	—	—	—	—
TS 6060RR	25.9	—	—	—	—	—	—
AU 94-507	24.0	—	—	—	—	—	—
Maturity Group VII							
Haskell	41.1	41.1	43.9	1.4	—	26	10-19
Benning	34.9	40.9	38.9	1.1	—	29	10-19
Stonewall	31.5	36.6	38.8	1.0	—	25	10-17
Carver	34.4	33.9	38.0	1.0	—	26	10-17
Braxton	34.4	36.2	36.5	1.0	—	27	10-19
Hagood	32.5	33.9	34.8	2.0	—	29	10-20
Sure-Grow SG 708 RR	35.4	36.1	—	—	—	—	—
FFR 731	35.6	—	—	—	—	—	—
Hartz H 7550RR	34.3	—	—	—	—	—	—
FFR EXP RT 47360	33.4	—	—	—	—	—	—
Hartz H 7152RR	28.5	—	—	—	—	—	—
Sure-Grow SG 759 RR	27.9	—	—	—	—	—	—
AgriPro AP 711 RR	26.8	—	—	—	—	—	—
AU 94-517	23.7	—	—	—	—	—	—
<b>Test Means</b>	<b>29.4</b>	<b>33.9</b>	<b>37.2</b>	<b>1.1</b>	—	<b>25</b>	
<b>L.S.D. (.05)</b>	<b>4.6</b>						
<b>C.V. (%)</b>	<b>11.3</b>						

TABLE 13. PERFORMANCE OF SOYBEAN VARIETIES AT BREWTON, ALABAMA, 1999

Brand-Variety	Yield Per Acre <i>bu.</i>	Average			Maturity Date
		Lodging Score	Shattering Score	Plant Height ( <i>in.</i> )	
Maturity Group V					
AgriPro HY574	69.7	1.0	0.3	30	9-15
Terra RVS Robin-5	63.2	1.0	0.3	25	9-17
Deltapine DP 5989	61.2	1.3	0.3	37	9-16
Hutcheson	60.6	1.0	0.5	23	9-11
Deltapine DP 5655	60.2	1.3	0.3	35	9-11
Deltapine DP 5354	57.7	1.0	2.0	26	9-8
AgriPro AP588RR	56.3	1.0	0.3	28	9-13
Dyna-Gro 3585RR	55.5	1.0	0.3	27	9-18
Sure-Grow SG 597 RR	50.7	1.0	0.3	36	9-14
Terra TS 558RR	50.3	1.0	1.8	26	9-10
Terra TS 520	48.5	2.0	3.0	38	9-8
Dyna-Gro 3538RR	47.7	1.0	1.5	26	9-12
Terra TS 556RR	46.6	1.0	3.0	25	9-10
Maturity Group VI					
Musen	68.0	1.5	0.3	33	10-3
FFR 665	66.9	1.0	0.3	27	9-29
Terra RVS 678	66.1	1.0	0.3	37	9-28
Sure-Grow SG 678 RR	65.4	1.3	0.3	30	9-28
Pioneer 9692	65.1	1.0	0.3	30	9-30
Dillon	63.2	1.0	0.3	31	9-19
Asgrow AG 6201	62.7	1.0	0.3	34	9-23
Boggs	59.4	1.3	0.3	31	9-28
Asgrow AG 6101	59.4	1.0	0.3	32	9-18
Asgrow AG 6701	58.5	1.0	0.3	34	9-30
FFR 688	58.4	1.0	0.3	28	9-29
Deltapine DP 6880 RR	57.8	1.0	0.3	31	10-3
FFR EXP RT 47355	57.8	1.0	0.3	36	10-4
Pioneer 96B21	55.6	1.0	0.3	31	9-14
Terra TS 608RR	51.7	1.0	0.5	27	9-15
AU 94-507	—	—	—	—	—
Maturity Group VII					
Benning	70.1	1.3	0.3	34	10-4
Carver	65.7	1.3	0.3	30	10-1
Pioneer 97B62	65.5	1.3	0.3	32	10-5
Pioneer 97B61	64.3	1.3	0.3	35	10-4
AgriPro AP 727	63.7	1.0	0.3	34	9-30
Sure-Grow SG 759 RR	62.9	1.0	0.3	33	10-5
FFR EXP RT 47360	60.7	1.0	0.3	36	10-5
Stonewall	60.7	1.0	0.3	30	10-3
Hagood	60.3	2.3	0.3	33	10-6
Haskell	58.2	1.0	0.3	33	10-4
Sure-Grow SG 708 RR	58.1	1.3	0.3	37	10-3
FFR 731	56.8	1.0	0.3	32	9-30
Braxton	55.9	1.3	0.3	36	10-5
AgriPro AP 711 RR	52.1	2.3	0.3	53	10-7
AU 94-517	—	—	—	—	—

continued

TABLE 13, CONTINUED. PERFORMANCE OF SOYBEAN VARIETIES AT BREWTON, ALABAMA, 1999

Brand-Variety	Yield Per Acre <i>bu.</i>	Average			
		Lodging Score	Shattering Score	Plant Height ( <i>in.</i> )	Maturity Date
Maturity Group VIII					
Prichard	71.6	1.0	0.3	36	10-9
Kuell	70.4	1.8	0.5	33	10-7
Maxcy	67.8	1.5	0.5	31	10-8
AU 95-757	63.7	1.0	0.3	29	10-3
Motte	62.4	2.0	0.3	35	10-8
<b>Test Means</b>	<b>60.3</b>	<b>1.2</b>	<b>0.5</b>	<b>32</b>	
<b>L.S.D. (.05)</b>	<b>6.3</b>				
<b>C.V. (%)</b>	<b>7.5</b>				

TABLE 14. PERFORMANCE OF SOYBEAN VARIETIES AT BREWTON, ALABAMA, THREE-YEAR SUMMARY, 1997-99

Brand-Variety	Yield Per Acre			3-Year Average			
	1999 <i>bu.</i>	2-Yr. Avg. <i>bu.</i>	3-Yr. Avg. <i>bu.</i>	Lodging Score	Shattering Score	Plant Height ( <i>in.</i> )	Maturity Date
Maturity Group V							
AgriPro HY574	69.7	54.7	44.4	1.0	0.1	27	9-19
Hutcheson	60.6	50.8	42.9	1.0	0.9	21	9-17
Terra RVS Robin-5	63.2	49.2	40.9	1.0	0.1	23	9-20
AgriPro AP588RR	56.3	43.7	—	—	—	—	—
Terra TS 520	48.5	38.4	—	—	—	—	—
Deltapine DP 5989	61.2	—	—	—	—	—	—
Deltapine DP 5655	60.2	—	—	—	—	—	—
Deltapine DP 5354	57.7	—	—	—	—	—	—
Dyna-Gro 3585RR	55.5	—	—	—	—	—	—
Sure-Grow SG 597 RR	50.7	—	—	—	—	—	—
Terra TS 558RR	50.3	—	—	—	—	—	—
Dyna-Gro 3538RR	47.7	—	—	—	—	—	—
Terra TS 556RR	46.6	—	—	—	—	—	—
Maturity Group VI							
Musen	68.0	57.2	45.5	1.2	0.1	28	10-5
Dillon	63.2	51.1	41.6	1.0	0.1	29	9-25
Pioneer 9692	65.1	50.7	40.5	1.0	0.1	27	10-1
Sure-Grow SG 678 RR	65.4	56.8	—	—	—	—	—
Terra RVS 678	66.1	54.6	—	—	—	—	—
Deltapine DP 6880 RR	57.8	50.4	—	—	—	—	—
Boggs	59.4	47.3	—	—	—	—	—
FFR 665	66.9	—	—	—	—	—	—
Asgrow AG 6201	62.7	—	—	—	—	—	—
Asgrow AG 6101	59.4	—	—	—	—	—	—
Asgrow AG 6701	58.5	—	—	—	—	—	—
FFR 688	58.4	—	—	—	—	—	—
FFR EXP RT 47355	57.8	—	—	—	—	—	—
Pioneer 96B21	55.6	—	—	—	—	—	—
Terra TS 608RR	51.7	—	—	—	—	—	—

continued

**TABLE 14, CONTINUED. PERFORMANCE OF SOYBEAN VARIETIES AT BREWTON, ALABAMA, THREE-YEAR SUMMARY, 1997-99**

Brand-Variety	Yield Per Acre			3-Year Average			
	1999 <i>bu.</i>	2-Yr. Avg. <i>bu.</i>	3-Yr. Avg. <i>bu.</i>	Lodging Score	Shattering Score	Plant Height ( <i>in.</i> )	Maturity Date
Maturity Group VII							
Benning	70.1	56.9	46.1	1.1	0.1	29	10-7
Pioneer 97B61	64.3	54.6	44.3	1.5	0.1	32	10-10
Hagood	60.3	51.0	41.9	1.9	0.1	32	10-12
Stonewall	60.7	50.6	40.4	1.1	0.1	27	10-5
Carver	65.7	50.6	40.1	1.1	0.1	26	10-2
Haskell	58.2	49.6	39.6	1.3	0.1	30	10-8
Sure-Grow SG 708 RR	58.1	49.7	—	—	—	—	—
Pioneer 97B62	65.5	—	—	—	—	—	—
AgriPro AP 727	63.7	—	—	—	—	—	—
Sure-Grow SG 759 RR	62.9	—	—	—	—	—	—
FFR EXP RT 47360	60.7	—	—	—	—	—	—
FFR 731	56.8	—	—	—	—	—	—
Braxton	55.9	—	—	—	—	—	—
AgriPro AP 711 RR	52.1	—	—	—	—	—	—
Maturity Group VIII							
Kuell	70.4	55.4	45.1	1.8	0.3	34	10-17
Maxcy	67.8	50.2	41.2	1.3	0.3	30	10-15
Prichard	71.6	59.0	—	—	—	—	—
Motte	62.4	49.7	—	—	—	—	—
AU 95-757	63.7	—	—	—	—	—	—
<b>Test Means</b>	<b>60.3</b>	<b>51.4</b>	<b>42.5</b>	<b>1.2</b>	<b>0.2</b>	<b>28</b>	
<b>L.S.D. (.05)</b>	<b>6.3</b>						
<b>C.V. (%)</b>	<b>7.5</b>						

**TABLE 15. PERFORMANCE OF SOYBEAN VARIETIES AT FAIRHOPE, ALABAMA, 1999**

Brand-Variety	Yield Per Acre <i>bu.</i>	Average			
		Lodging Score	Shattering Score	Plant Height ( <i>in.</i> )	Maturity Date
Maturity Group V					
Hutcheson	54.9	1.0	2.8	25	9-28
Deltapine DP 5655	54.1	2.8	1.3	42	9-29
Terra RVS Robin-5	52.7	1.0	2.8	27	10-2
AgriPro HY574	52.0	1.0	1.0	34	10-1
Terra TS 556RR	51.5	1.0	3.5	29	9-26
Deltapine DP 5690 RR	50.5	1.5	1.3	35	10-3
Deltapine DP 5644 RR	50.5	1.5	1.0	32	9-26
Deltapine DP 5989	50.3	2.0	1.3	43	10-3
Terra TS 520	50.2	1.3	1.0	45	9-26
Hartz H 5999RR	50.0	1.0	1.5	33	10-2
AgriPro AP588RR	49.7	1.0	1.3	33	10-2
Hartz H 5545RR	49.3	1.3	1.5	33	9-28
Hartz H5050	49.0	1.5	1.3	35	9-25
Hartz H5350RR	48.9	1.3	1.0	31	9-29
Hartz H 5181RR	48.3	2.5	1.5	34	10-4

*continued*

TABLE 15, CONTINUED. PERFORMANCE OF SOYBEAN VARIETIES AT FAIRHOPE, ALABAMA, 1999

Brand-Variety	Yield Per Acre <i>bu.</i>	Average			
		Lodging Score	Shattering Score	Plant Height ( <i>in.</i> )	Maturity Date
Sure-Grow SG 597 RR	48.2	1.5	1.0	40	10-2
Hartz X5950RR	47.7	2.0	1.0	35	9-27
Dyna-Gro 3585RR	47.3	1.5	1.0	29	10-1
Dyna-Gro 3538RR	45.2	1.0	1.0	33	9-29
Terra TS 558RR	44.8	1.8	1.3	33	9-28
Maturity Group VI					
FFR 665	59.3	1.0	1.0	27	10-11
AU 94-507	58.5	1.3	1.3	30	10-5
Hartz H6255RR	56.1	1.8	1.0	34	10-12
FFR 688	53.6	1.5	1.5	31	10-8
Sure-Grow SG 678 RR	53.2	1.0	1.0	29	10-9
Pioneer 9692	53.0	1.0	1.3	30	10-11
Hartz H6500	52.7	1.5	1.0	34	10-10
Musen	52.3	1.0	1.0	35	10-15
Pioneer 96B21	51.8	1.3	1.0	34	10-3
Deltapine DP 6200 RR	51.3	1.3	1.0	32	10-7
Dillon	50.5	1.0	1.5	34	10-3
Terra RVS 678	50.0	1.0	1.0	36	10-9
Boggs	47.7	1.3	1.3	34	10-10
Deltapine DP 6880 RR	47.5	1.3	1.0	36	10-11
Hartz H6686RR	45.5	1.3	1.0	35	10-12
FFR EXP RT 47355	45.0	1.0	1.0	38	10-16
Terra TS 608RR	43.0	1.3	1.3	31	10-3
Maturity Group VII					
Deltapine DP 7731	59.3	1.8	1.0	32	10-17
Pioneer 97B62	58.8	1.5	1.0	36	10-18
AU 94-517	55.4	1.8	1.0	35	10-11
Carver	54.8	1.0	1.3	31	10-11
Haskell	53.8	2.5	1.0	35	10-18
Benning	53.2	1.3	1.0	35	10-12
Stonewall	52.2	1.0	1.0	30	10-14
Hartz H 7550RR	51.3	1.0	1.0	35	10-20
Deltapine DP 7375 RR	50.8	1.0	1.0	36	10-17
Pioneer 97B61	50.6	1.5	1.0	32	10-15
Braxton	50.4	1.5	1.0	36	10-19
Hagood	50.2	1.5	1.3	36	10-20
FFR 731	48.8	1.0	1.0	31	10-11
AgriPro AP 727	48.2	1.0	1.0	39	10-11
Hartz H 7152RR	45.7	1.0	1.0	32	10-18
Sure-Grow SG 708 RR	45.4	2.0	1.0	34	10-12
FFR EXP RT 47360	44.6	1.0	1.0	39	10-17
Sure-Grow SG 759 RR	42.5	1.5	1.0	29	10-17
AgriPro AP 711 RR	38.3	2.0	1.0	53	10-19
Maturity Group VIII					
AU 95-757	50.8	1.3	1.0	27	10-14
Kuell	48.6	2.5	1.0	36	10-26
Motte	48.0	2.0	1.0	34	10-20
Prichard	47.3	2.0	1.0	35	10-26
Maxcy	46.6	2.3	1.0	33	10-21
<b>Test Means</b>	<b>50.2</b>	<b>1.4</b>	<b>1.2</b>	<b>34</b>	
<b>L.S.D. (.05)</b>	<b>4.1</b>				
<b>C.V. (%)</b>	<b>5.9</b>				

**TABLE 16. PERFORMANCE OF SOYBEAN VARIETIES AT FAIRHOPE, ALABAMA,  
THREE-YEAR SUMMARY, 1997-99**

Brand-Variety	Yield Per Acre			3-Year Average			
	1999 <i>bu.</i>	2-Yr. Avg. <i>bu.</i>	3-Yr. Avg. <i>bu.</i>	Lodging Score	Shattering Score	Plant Height ( <i>in.</i> )	Maturity Date
Maturity Group V							
Hutcheson	54.9	53.0	45.5	1.0	2.6	24	9-26
AgriPro HY574	52.0	51.9	44.4	1.0	1.2	31	9-28
Terra RVS Robin-5	52.7	50.5	41.4	1.1	2.3	24	9-28
Terra TS520	50.2	50.6	—	—	—	—	—
Deltapine DP 5690 RR	50.5	50.1	—	—	—	—	—
AgriPro AP588RR	49.7	49.9	—	—	—	—	—
Deltapine DP 5655	54.1	—	—	—	—	—	—
Terra TS556RR	51.5	—	—	—	—	—	—
Deltapine DP 5644 RR	50.5	—	—	—	—	—	—
Deltapine DP 5989	50.3	—	—	—	—	—	—
Hartz H 5999RR	50.0	—	—	—	—	—	—
Hartz H 5545RR	49.3	—	—	—	—	—	—
Hartz H5050	49.0	—	—	—	—	—	—
Hartz H5350RR	48.9	—	—	—	—	—	—
Hartz H 5181RR	48.3	—	—	—	—	—	—
Sure-Grow SG 597 RR	48.2	—	—	—	—	—	—
Hartz HX5950RR	47.7	—	—	—	—	—	—
Dyna-Gro 3585RR	47.3	—	—	—	—	—	—
Dyna-Gro 3538RR	45.2	—	—	—	—	—	—
Terra TS558RR	44.8	—	—	—	—	—	—
Maturity Group VI							
Dillon	50.5	51.5	43.3	1.1	1.3	30	10-1
Musen	52.3	47.5	40.4	1.0	1.0	31	10-11
Hartz H6255RR	56.1	56.1	—	—	—	—	—
Sure-Grow SG 678 RR	53.2	50.9	—	—	—	—	—
Pioneer 9692	53.0	50.5	—	—	—	—	—
Deltapine DP 6200 RR	51.3	49.4	—	—	—	—	—
Terra RVS 678	50.0	46.7	—	—	—	—	—
Boggs	47.7	45.5	—	—	—	—	—
Deltapine DP 6880 RR	47.5	45.2	—	—	—	—	—
FFR 665	59.3	—	—	—	—	—	—
AU 94-507	58.5	—	—	—	—	—	—
FFR 688	53.6	—	—	—	—	—	—
Hartz H6500	52.7	—	—	—	—	—	—
Pioneer 96B21	51.8	—	—	—	—	—	—
Hartz H6686RR	45.5	—	—	—	—	—	—
FFR EXP RT 47355	45.0	—	—	—	—	—	—
Terra TS 608RR	43.0	—	—	—	—	—	—

*continued*

**TABLE 16, CONTINUED. PERFORMANCE OF SOYBEAN VARIETIES AT FAIRHOPE, ALABAMA,  
THREE-YEAR SUMMARY, 1997-99**

Brand-Variety	Yield Per Acre			3-Year Average			
	1999 <i>bu.</i>	2-Yr. Avg. <i>bu.</i>	3-Yr. Avg. <i>bu.</i>	Lodging Score	Shattering Score	Plant Height ( <i>in.</i> )	Maturity Date
Maturity Group VII							
Carver	54.8	50.3	42.3	1.0	1.2	30	10-6
Haskell	53.8	50.3	41.4	2.3	1.2	34	10-12
Benning	53.2	48.6	40.4	1.1	1.0	33	10-9
Stonewall	52.2	47.7	39.7	1.0	1.2	31	10-9
AgriPro AP 727	48.2	46.3	38.8	1.1	1.3	36	10-9
Pioneer 97B61	50.6	46.7	37.7	1.5	1.0	32	10-12
Hagood	50.2	44.4	36.9	1.4	1.2	36	10-16
Deltapine DP 7375 RR	50.8	46.4	—	—	—	—	—
Sure-Grow SG 708 RR	45.4	43.4	—	—	—	—	—
Deltapine DP 7731	59.3	—	—	—	—	—	—
Pioneer 97B62	58.8	—	—	—	—	—	—
AU 94-517	55.4	—	—	—	—	—	—
Hartz H 7550RR	51.3	—	—	—	—	—	—
Braxton	50.4	—	—	—	—	—	—
FFR 731	48.8	—	—	—	—	—	—
Hartz H 7152RR	45.7	—	—	—	—	—	—
FFR EXP RT 47360	44.6	—	—	—	—	—	—
Sure-Grow SG 759 RR	42.5	—	—	—	—	—	—
AgriPro AP 711 RR	38.3	—	—	—	—	—	—
Maturity Group VIII							
Kuell	48.6	44.1	37.9	2.3	1.1	35	10-19
Maxcy	46.6	43.2	34.5	1.9	1.1	33	10-16
Motte	48.0	44.4	—	—	—	—	—
Prichard	47.3	42.3	—	—	—	—	—
AU 95-757	50.8	—	—	—	—	—	—
<b>Test Means</b>	<b>50.2</b>	<b>48.1</b>	<b>40.3</b>	<b>1.3</b>	<b>1.3</b>	<b>31</b>	
<b>L.S.D. (.05)</b>	<b>4.1</b>						
<b>C.V. (%)</b>	<b>5.9</b>						

TABLE 17. PERFORMANCE OF SOYBEAN VARIETIES AT SHORTER, ALABAMA, 1999

Brand-Variety	Yield Per Acre <i>bu.</i>	Average			
		Lodging Score	Shattering Score	Plant Height ( <i>in.</i> )	Maturity Date
Maturity Group V					
Hutcheson	35.7	0.0	0.0	28	9-20
Terra TS 558RR	34.4	0.0	0.0	35	9-28
Terra RVS Robin-5	33.8	0.0	0.0	31	10-1
AgriPro HY574	30.4	1.0	10.0	41	10-10
Deltapine DP 5655	30.2	2.3	0.0	40	9-28
Dyna-Gro 3585RR	29.7	0.0	0.0	38	10-3
Terra TS 520	29.4	0.0	0.0	38	9-29
Dyna-Gro 3538RR	29.3	0.0	0.0	35	9-28
Terra TS 556RR	29.1	0.0	0.0	35	9-20
AgriPro AP588RR	27.6	1.0	0.0	38	10-11
Deltapine DP 5354	26.5	1.3	10.0	38	9-27
Sure-Grow SG 597 RR	23.3	1.3	0.0	42	10-10
Maturity Group VI					
Musen	39.8	0.0	0.0	39	10-22
Pioneer 9692	39.7	2.3	0.0	39	10-18
Boggs	39.6	0.5	0.0	36	10-10
FFR 688	38.6	0.3	0.0	39	10-16
AU 94-507	38.2	0.0	0.0	36	10-3
Terra RVS 678	37.1	1.5	0.0	43	10-14
FFR 665	36.6	1.0	0.0	40	10-18
Dillon	34.6	0.5	0.0	43	10-17
Terra TS 608RR	33.4	0.5	0.0	39	10-3
Sure-Grow SG 678 RR	33.1	1.5	0.0	37	10-21
Pioneer 96B21	31.4	1.8	5.0	46	10-20
Maturity Group VII					
Pioneer 97B62	41.0	1.8	5.0	38	10-27
Benning	38.8	2.8	0.0	38	10-23
Sure-Grow SG 708 RR	37.7	3.3	0.0	43	10-19
Stonewall	37.3	0.0	0.0	39	10-19
AU 94-517	36.7	2.5	0.0	41	10-9
FFR 731	36.3	1.0	0.0	39	10-14
Sure-Grow SG 759 RR	35.3	2.5	0.0	42	10-27
Haskell	35.0	1.5	0.0	39	10-22
Carver	34.9	0.3	0.0	38	10-11
Braxton	32.8	0.3	0.0	40	10-24
Pioneer 97B61	31.9	0.3	0.0	39	10-25
Hagood	30.8	2.8	5.0	41	10-31
<b>Test Means</b>	<b>34.0</b>	<b>1.0</b>	<b>7.0</b>	<b>39</b>	
<b>L.S.D. (.05)</b>	<b>5.8</b>				
<b>C.V. (%)</b>	<b>12.2</b>				



**TABLE 18. PERFORMANCE OF VERY EARLY PLANTED SOYBEAN VARIETIES  
AT BREWTON, ALABAMA, 1999**

Brand-Variety	Yield Per Acre <i>bu.</i>	Average			Maturity Date
		Lodging Score	Shattering Score	Plant Height ( <i>in.</i> )	
Maturity Group V					
Deltapine DP 5806 RR	64.7	1.0	0.0	32	9-16
Hutcheson	62.7	1.0	0.0	26	9-14
Deltapine DP 5989	60.5	1.5	0.0	38	9-15
Deltapine DP 5354	60.0	1.0	2.5	27	9-9
FFR 594	58.0	1.0	0.0	31	9-18
Deltapine DP 5655	57.2	1.0	2.5	34	9-12
FFR RT 557	50.4	1.0	2.5	28	9-9
FFR RT 587	47.2	1.0	0.0	28	9-14
Sure-Grow SG 597 RR	41.3	1.3	1.3	32	9-15
Maturity Group VI					
FFR 665	63.5	1.0	0.0	26	9-28
FFR 688	62.6	1.0	0.0	27	9-28
Musen	62.5	1.5	0.0	32	10-4
FFR EXP RT 47058	62.0	1.0	0.0	34	9-26
Sure-Grow SG 678 RR	61.7	1.0	0.0	30	9-26
Pioneer 9692	61.5	1.0	0.0	29	9-27
Dillon	59.1	1.0	0.0	33	9-18
Boggs	57.2	1.3	0.0	30	9-27
Deltapine DP 6880 RR	55.3	1.0	0.0	28	10-1
FFR EXP RT 47355	54.7	1.0	0.0	36	10-4
Maturity Group VII					
Haskell	60.8	1.0	0.0	31	10-4
FFR 731	58.9	1.0	0.0	31	9-29
Carver	58.2	1.0	0.0	28	9-30
Stonewall	57.5	1.0	0.0	27	10-1
FFR EXP RT 47360	55.9	1.0	0.0	32	10-5
<b>Test Means</b>	<b>58.1</b>	<b>1.1</b>	<b>0.4</b>	<b>30</b>	
<b>L.S.D. (.05)</b>	<b>6.6</b>				
<b>C.V. (%)</b>	<b>8.0</b>				

**TABLE 19. PERFORMANCE OF SOYBEAN VARIETIES IN PRELIMINARY TESTS, 1999**

Brand-Variety	Yield Per Acre		
	Northern (Belle Mina) <i>bu.</i>	Central (Prattville) <i>bu.</i>	Southern (Monroeville) <i>bu.</i>
Group V			
Deltapine DPX 5718RR	10.9	—	—
Deltapine DPX 5915RR	13.2	—	—
Dyna-Gro X 3505RR	12.1	35.9	—
Dyna-Gro X 3555RR	9.5	30.4	—
FFR Exp 47451	8.5	—	—
FFR RT 5485	9.5	—	—
Hartz HX 5918RR	10.6	35.4	18.5
Hutcheson	13.3	36.3	18.1
Group VI			
Deltapine DPX 8561RR	—	35.9	17.5
Deltapine DPX 8562RR	—	30.1	18.2
Dillon	10.0	33.0	15.8
FFR EXP RT 47058	8.2	31.4	—
FFR EXP RT 47355	7.0	25.3	—
Hartz HX 6904RR	11.6	31.8	20.3
Terra TS 6299RR	10.9	33.1	17.0
Terra TS 6575RR	7.6	24.7	9.4
Group VII			
Deltapine DPX 8574 RR	—	33.3	16.5
FFR EXP RT 47360	—	25.3	10.8
Haskell	—	20.8	11.7
<b>Test Means</b>	<b>10.3</b>	<b>30.8</b>	<b>15.8</b>
<b>L.S.D. (0.05)</b>	<b>2.8</b>	<b>7.4</b>	<b>2.7</b>
<b>C.V. (%)</b>	<b>19.1</b>	<b>16.8</b>	<b>11.8</b>

**TABLE 20. ENTRIES AND SOURCES FOR 1999**

Company	Brand-Variety
AgriPro Seeds, Inc. Memphis, Tennessee	AP, HY brand varieties
Alabama Crop Imp. Assoc. Auburn, Alabama	Hutcheson Stonewall
Monsanto DeKalb, Illinois	Asgrow brand varieties
Delta and Pine Land Company Scott, Mississippi	Deltapine brand varieties
Delta King Seed Co. McCrory, Arkansas	Delta King brand varieties
Department of Agronomy and Soils Auburn University, Alabama	Au 94-507, Au 94-517 Au 95-757, Kuell (formerly Au 91-13)
Escambia Farm and Seed Co. Atmore, Alabama	Braxton Carver
Monsanto DeKalb, Illinois	Hartz brand varieties
Pioneer Hi-Bred International, Inc. Huntsville, Alabama	Pioneer brand varieties
South Carolina Foundation Seed Assoc. Clemson, South Carolina	Dillon Hagood Maxcy Motte Musen
Southern Elite Genetics Assoc. Statesboro, Georgia	Benning Boggs Haskell Prichard
Southern States Coop. Richmond, Virginia	FFR brand varieties
Sure-Grow Seed, Inc. Centre, Alabama	Sure-Grow SG brand varieties
Terra International, Inc. Memphis, Tennessee	RVS, TS brand varieties
United Agri-Products	Dyna-Gro brand varieties