

2010

Louisiana Soybean Performance Trials



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The Louisiana Soybean Performance Trials are conducted annually by scientists of the Louisiana Agricultural Experiment Station (LAES) to evaluate commercial soybean varieties and experimental lines for yield potential, agronomic performance, and disease reaction. The trials are conducted at six LAES research stations that represent the major soybean production regions in Louisiana. Entries are included in the trials based upon previous performance or at the request of the originating entity. Inclusion of an entry in the trials does not constitute an endorsement by the LAES.

Tests and Locations:

All entries were tested in one of the following trials, divided by relative maturity group (MG):

Trial	Relative Maturity Group
MG III and Early IV	3.X – 4.4
MG Late IV	4.5 – 4.9
MG V	5.0 - 6.X

Trials were conducted at the following locations:

- 1) [Dean Lee Research Station](#), Alexandria
- 2) [Macon Ridge Research Station](#), Winnsboro
- 3) [Iberia Research Station](#), Jeanerette
- 4) [Rice Research Station](#), Crowley
- 5) [Red River Research Station](#), Bossier City
- 6) [Northeast Research Station](#), St. Joseph

The specific management and cultural factors that may have influenced the trials at each location are included as a reference table. Information in the “Site Description” tables for each location includes planting and harvest dates, fertilizer, herbicide, and insecticide application rates and timings, and general climactic and cultural information regarding the trial.

Weed control was accomplished using only conventional herbicides so soybean varieties could be compared for yield potential across technology systems. Entries containing glyphosate-resistant, glufosinate-resistant, and conventional technologies were all grown in the same trial. While some conventional herbicides are known to cause cosmetic injury to soybean varieties, herbicides that differentially affect certain soybean varieties were avoided. For example, some varieties can be injured by applications of metribuzin, so no metribuzin-containing products were applied. The use of ALS-inhibiting herbicides was minimized so that STS and non-STS varieties could be evaluated equally.

Data Collection:

Data collected at some or all locations included grain yield, test weight, maturity date (number of days to reach the R8 growth stage), plant height, lodging, salt damage, seed quality, %Green (percentage of stems remaining green at harvest), %Leaf (percentage of green leaves retained at harvest maturity), shattering %, and disease ratings on Cercospora Blight, Anthracnose Blight, and Frogeye Leaf Spot. Plots

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in all trials were 4 rows wide and were 25 – 35 feet in length, depending on the location. All plots were seeded at a rate of 130,000 seeds per acre. Grain yield was obtained by harvesting only the interior rows of each plot and plot weights were converted to bushels per acre (bu/A). The percent moisture was recorded for all harvested plots and adjusted to 13% moisture content.

Experimental Design and Statistical Analysis:

A randomized complete block design with four replications was used at each location. The standard deviation for each trial and location was calculated to provide an estimate of the differences among varieties for each of the traits. The reliability of the data for each trial was estimated using the coefficient of variation (CV).

The Least Significant Difference (LSD) was used to separate the means at the 10% level ($\alpha=0.10$). The magnitude of the LSD determines if a variety is truly higher-yielding than any other variety, or if the yields are equal due to experimental variation. If the yield difference between two varieties is less than the LSD, the varieties are not significantly different. This should be interpreted as follows: If “Variety A” yields 60 bu/A, and “Variety B” yields 54 bu/A, and the LSD = 7.0 bu/A, then Variety A and Variety B are equal and their yields are only numerically different because of experimental variation in the trial. If the difference in yield between two varieties is greater than the LSD value, you can be reasonably certain that the varieties actually do differ in yielding ability.

Acknowledgments:

These trials would not be possible without the assistance of a dedicated research team. The following research associates work closely with these trials and their efforts are much appreciated.

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J.S. Fluitt, Research Associate, Rice Research Station
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Dean Lee Research Station
Maturity Group III and Early IV
Agronomic and Cultural Practices

Maturity Group:	MG III and MG Early IV			
Location:	Dean Lee Research Station, Alexandria, LA			
Irrigated (yes or no):	No			
Irrigation Type:	N/A			
Tillage System:	Fall-Stale			
Soil pH:	7.8			
Organic Matter (%):	<2%			
Soil Texture:	silty clay loam			
Row Spacing (inches):	38			
Row/Plot Length (feet):	25			
Planting Date:	28-Apr			
Harvest Date:	10-Sep			
Seeding Rate (sd/A):	130,000			
Fertilizer Applied 1:	0-30-60, fall-applied			
Foliar Insecticide 1:	Karate Z	Rate:	2.6 oz/A	Date: 9-Jul
Foliar Insecticide 2:	Brigade	Rate:	6.4oz/A	Date: 20-Jul
Foliar Insecticide 3:	Leverage	Rate:	2.8oz/A	Date: 29-Jul
Foliar Insecticide 4:	Intrepid	Rate:	6 oz/A	Date: 6-Aug
Foliar Insecticide 5:	Baythroid + Bracket 97	Rate:	2 oz/A + .5 lb/a	Date: 25-Aug
Pre Emerge Herb 1:	Cornerstone Plus + Dual II Magnum	Rate:	1 qt/A + 1.5 pt/A	Date: 30-Apr
Post Herb 1:	Flexstar	Rate:	1.5 pt/A	Date: 16-Jul
Harvest Aid	Gramoxone	Rate:	16 oz/A	Date: 31-Aug
Trial Comments (General Observations and Growing Conditions):	<p>Even though drought conditions existed early in the season, we obtained excellent stands at Dean Lee. Visible drought stress was not apparent. However, we did see Iron deficiency symptoms (likely due to the drought conditions and high pH soils) and we collected data on these visual symptoms. When substantial rainfall occurred, most of the plants no longer exhibited these deficiency symptoms, but it is likely that yield could have been reduced in the highly susceptible plots. Cercospora was the main disease present in 2010, and visual ratings were recorded at regular intervals. Weed control was accomplished using only conventional soybean herbicides. Additionally, no sulfonylurea or ALS-inhibiting herbicides were applied to the plots, so both STS and non-STS soybeans were evaluated equally. Weed control in the plots was excellent. Insect pressure was relatively light, but plots were sprayed at regular intervals for both stinkbugs and soybean loopers. Harvest conditions were very good, which resulted in outstanding seed quality for most entries.</p>			

Dean Lee Research Station
Maturity Group IV
Agronomic and Cultural Practices

Maturity Group:	MG Early IV			
Location:	Dean Lee Research Station, Alexandria, LA			
Irrigated (yes or no):	No			
Irrigation Type:	N/A			
Tillage System:	Fall-Stale			
Soil pH:	7.8			
Organic Matter (%):	<2%			
Soil Texture:	silty clay loam			
Row Spacing (inches):	38			
Row/Plot Length (feet):	25			
Planting Date:	28-Apr			
Harvest Date:	19-Sep			
Seeding Rate (sd/A):	130,000			
Fertilizer Applied 1:	0-30-60, fall-applied			
Foliar Insecticide 1:	Karate Z	Rate:	2.6 oz/A	Date: 9-Jul
Foliar Insecticide 2:	Brigade	Rate:	6.4oz/A	Date: 20-Jul
Foliar Insecticide 3:	Leverage	Rate:	2.8oz/A	Date: 29-Jul
Foliar Insecticide 4:	Intrepid	Rate:	6 oz/A	Date: 6-Aug
Foliar Insecticide 5:	Baythroid + Bracket 97	Rate:	2 oz/A + .5 lb/a	Date: 25-Aug
Pre Emerge Herb 1:	Cornerstone Plus + Dual II Magnum	Rate:	1 qt/A + 1.5 pt/A	Date: 30-Apr
Post Herb 1:	Prowl H2O + Cornerstone (Hooded Sprayer)	Rate:	1 qt/A + 1 qt/A	Date: 21-Jun
Harvest Aid	Gramoxone	Rate:	16 oz/A	Date: 9-Sep
Trial Comments (General Observations and Growing Conditions):	<p>Even though drought conditions existed early in the season, we obtained excellent stands at Dean Lee. Visible drought stress was not apparent. However, we did see Iron deficiency symptoms (likely due to the drought conditions and high pH soils) and we collected data on these visual symptoms. When substantial rainfall occurred, most of the plants no longer exhibited these deficiency symptoms, but it is likely that yield could have been reduced in the highly susceptible plots. Cercospora was the main disease present in 2010, and visual ratings were recorded at regular intervals. Weed control was accomplished using only conventional soybean herbicides. Additionally, no sulfonylurea or ALS-inhibiting herbicides were applied to the plots, so both STS and non-STS soybeans were evaluated equally. Weed control in the plots was excellent. Insect pressure was relatively light, but plots were sprayed at regular intervals for both stinkbugs and soybean loopers. Harvest conditions were very good, which resulted in outstanding seed quality for most entries.</p>			

Dean Lee Research Station
Maturity Group V
Agronomic and Cultural Practices

Maturity Group:	MG V			
Location:	Dean Lee Research Station, Alexandria, LA			
Irrigated (yes or no):	No			
Irrigation Type:	N/A			
Tillage System:	Fall-Stale			
Soil pH:	7.8			
Organic Matter (%):	<2%			
Soil Texture:	silty clay loam			
Row Spacing (inches):	38			
Row/Plot Length (feet):	25			
Planting Date:	13-May			
Harvest Date:	9/27 and 9/28			
Seeding Rate (sd/A):	130,000			
Fertilizer Applied 1:	0-30-60, fall-applied			
Foliar Insecticide 1:	Karate Z	Rate:	2.6 oz/A	Date: 9-Jul
Foliar Insecticide 2:	Brigade	Rate:	6.4oz/A	Date: 20-Jul
Foliar Insecticide 3:	Leverage	Rate:	2.8oz/A	Date: 29-Jul
Foliar Insecticide 4:	Intrepid	Rate:	6 oz/A	Date: 6-Aug
Foliar Insecticide 5:	Baythroid + Bracket 97	Rate:	2 oz/A + .5 lb/a	Date: 25-Aug
Preplant Herb 2:	Cornerstone Plus	Rate:	1 qt/A	Date: 3-May
Post Herb 1:	Prowl H2O + Flexstar (Layby)	Rate:	1 qt/A + 1.5 pt/A	Date: 30-Jun
Harvest Aid	Gramoxone + AIM	Rate:	16 oz/A + 1 oz/A	Date: 17-Sep
Trial Comments (General Observations and Growing Conditions):	<p>Even though drought conditions existed early in the season, we obtained excellent stands at Dean Lee. Visible drought stress was not apparent. However, we did see Iron deficiency symptoms (likely due to the drought conditions and high pH soils) and we collected data on these visual symptoms. When substantial rainfall occurred, most of the plants no longer exhibited these deficiency symptoms, but it is likely that yield could have been reduced in the highly susceptible plots. Cercospora was the main disease present in 2010, and visual ratings were recorded at regular intervals. Weed control was accomplished using only conventional soybean herbicides. Additionally, no sulfonylurea or ALS-inhibiting herbicides were applied to the plots, so both STS and non-STS soybeans were evaluated equally. Weed control in the plots was excellent. Insect pressure was relatively light, but plots were sprayed at regular intervals for both stinkbugs and soybean loopers. Harvest conditions were very good, which resulted in outstanding seed quality for most entries.</p>			

Table 1. Performance of Maturity Group III and Early IV Soybean Varieties at the Dean Lee Research Station in 2010.

Entry No.	Entry Name	Yield ^a	2009/2010 Avg ^a	Maturity ^b	Plant Height ^c	Lodging ^d	CB ^e 9-Aug
164	P4209RY	42	/	89	34	1.0	3.0
142	Armor 42-M1	39	47	78	28	3.5	3.5
95	S07-5049	39	/	85	34	1.5	2.0
152	Dyna-Gro 36C44	38	46	80	28	1.5	4.5
197	REVTM 44R22 TM	38	/	90	35	1.0	1.5
139	Delta King DKR 4440	37	/	85	32	1.5	3.0
73	Croplan 4455	37	/	83	29	2.0	3.0
163	P4206RR	37	44	85	28	1.0	3.5
71	Croplan 3967	36	/	80	32	2.5	3.5
52	Asgrow EXP944R2	36	/	88	30	1.0	3.5
1	S44-D5 Brand	36	51	76	31	2.5	3.0
8	Delta Grow 4470RR	36	/	88	33	1.5	3.0
204	Pioneer 94Y40	35	/	80	27	1.5	4.0
203	Asgrow EXP943R2	33	/	78	28	1.0	3.0
72	Croplan 4417	33	/	78	22	1.5	3.5
83	Pioneer 93Y92	32	/	80	26	1.5	2.0
84	Pioneer 94Y20	31	/	85	29	1.5	3.0
LSD (P=.10)		6.1	-	9.3	6.2	1.2	2.2
Standard Deviation		5.1	-	5.4	3.5	0.7	1.2
CV		14.1	-	6.5	11.9	42.2	39.9
Grand Mean		36.1	-	82.6	29.6	1.6	3.1

- a) Yield is expressed in bushels per acre
- b) Maturity = Number of days to reach physiological maturity (R8 growth stage)
- c) Plant height in inches at R8 growth stage
- d) Lodging = Rated on a scale of 1-5, where 1 = no lodging and 5 = all plants are down
- e) CB = Cercospora blight, rated on a scale of 1-9, where 1 = no disease symptoms and 9 = 100% defoliation and all plants are dead

Table 2. Performance of Maturity Group IV Soybean Varieties at the Dean Lee Research Station in 2010.

Entry No.	Entry Name	Yield ^a	2009/2010 Avg ^a	Maturity ^b	Plant Height ^c	Lodging ^d	CB ^e 5-Aug	CB ^e 17-Aug	CB ^e 28-Aug
176	P4920RY	59	/	105	37	1.0	1.0	3.0	3.5
69	USG 74F96	59	60	105	37	1.0	1.0	2.5	3.0
133	478.RCS	59	59	100	36	1.0	1.5	3.5	4.0
198	REV TM 48R21 TM	58	/	97	37	1.5	1.5	3.5	4.0
169	P4960LL	58	/	84	37	1.3	1.0	5.0	/
172	P4928LL	58	/	97	34	1.0	1.0	3.0	4.5
120	Delta King DKX 1492	58	/	105	37	1.0	1.0	2.0	2.5
111	Mor soy Xtra 46X29	57	/	95	34	1.0	1.0	3.5	5.0
30	HBK R4924	57	58	100	39	2.0	1.0	2.5	4.0
41	HALO 4:94 LL	57	/	105	32	1.0	1.0	2.0	2.5
62	HBK RY4920	56	/	95	35	1.0	1.0	2.5	4.0
167	P4710RY	56	/	97	35	1.0	1.0	2.5	4.5
177	P4750RR	56	/	84	35	2.0	2.5	5.0	6.5
82	Asgrow AG4605	56	52	90	32	1.0	1.5	4.0	5.0
168	P4510RY	56	/	90	33	1.8	2.0	3.0	6.0
106	S06-3095 RR	56	/	93	32	1.0	2.5	3.0	4.5
210	Armor ARX 1484	56	/	87	35	1.5	1.5	4.0	5.5
53	Asgrow AG4730	55	/	84	35	1.5	1.0	3.5	5.0
86	Pioneer 94Y80	55	56	91	37	1.0	1.0	4.0	6.0
27	Mor soy Xtra 49X10	55	/	84	36	2.0	1.0	2.5	3.5
116	Delta King DKX 1473	55	/	87	37	1.0	1.5	3.5	5.0
112	Mor soy Xtra 48X00	55	/	90	33	2.0	1.0	4.5	5.5
2	S49-H7 Brand	55	/	98	36	1.0	1.5	2.5	3.0
196	REV TM 49R22 TM	55	/	95	37	2.5	1.0	2.5	4.0
75	Croplan 4877	54	53	87	36	2.3	1.5	4.3	6.5
136	4990.RC	54	54	98	36	1.0	1.0	3.0	4.0
49	Asgrow EXP948R2	54	/	95	36	1.5	1.0	2.0	4.5
51	Asgrow EXP946R2	54	/	84	32	1.0	2.0	4.0	/
32	HBK R4829	54	/	84	36	1.8	2.5	5.0	6.5
76	Croplan 4998	54	59	105	39	1.5	1.0	1.0	2.5
11	MorSoy RT 4914N	54	60	97	37	1.0	1.5	2.5	4.5
170	P4906RR	53	/	100	36	1.0	1.0	1.5	3.5
12	MorSoy RTS 4955N	53	55	100	40	2.0	1.0	2.0	4.0
9	Delta Grow 4975RR	53	53	95	38	1.5	1.0	2.5	4.5
144	Armor 47-G10	53	/	95	41	1.5	1.0	3.0	4.5
117	Delta King DKX 1474	53	/	84	37	1.0	2.0	4.5	/
100	UA 4910	53	/	95	35	1.0	1.0	2.5	4.0
10	MorSoy RTS 4824	53	54	94	37	1.0	1.0	2.5	4.0
174	P4949RR	53	53	100	37	1.5	1.5	4.0	3.5
15	Delta Grow 4770 RR	53	51	84	35	1.8	1.0	6.0	/
138	458.RCS	52	/	84	36	1.0	1.0	4.0	6.0
44	HALO 4:65 LL	52	/	84	36	1.5	2.0	4.5	/
119	Delta King DKX 1491	52	/	95	32	1.0	1.5	2.5	4.5
16	S47-R3 Brand	52	/	91	36	1.0	1.0	3.0	5.0
173	P4810RY	52	/	84	34	1.5	2.0	4.0	5.0
153	Dyna-Gro 37P49	52	50	95	37	1.0	1.0	2.0	4.0
108	S07-5117	52	/	88	36	1.5	2.0	4.5	6.0
7	Delta Grow 4880RR	51	/	84	32	1.0	1.5	3.0	6.0
135	499.RC	51	/	105	38	2.0	1.0	2.0	2.5
21	Terral TV49R19	51	54	95	37	1.0	1.0	3.5	4.5
209	Armor ARX 1483	51	/	93	32	1.0	1.0	4.0	5.0
104	USG 74T98	51	/	93	30	1.0	2.5	3.8	4.5
85	Pioneer 94Y70	51	53	87	34	1.3	2.0	6.3	/
118	Armor ARX 1477	51	/	87	33	1.5	1.0	3.5	5.5
154	Dyna Gro 33G48	51	/	84	34	1.8	1.0	4.0	6.0

166 P4908RR	51	52	91	38	1.5	1.0	2.0	4.0
29 HBK R4729	51	53	91	30	1.3	1.0	4.5	6.0
145 Delta King DK 4968	50	54	90	34	1.5	1.0	3.5	5.0
155 Dyna-Gro 36Y48	50	56	95	37	1.5	1.0	3.0	5.0
192 REV TM 47R22 TM	50	/	84	37	1.5	1.0	4.5	6.0
13 Delta Grow 4970RR	50	53	105	36	1.5	1.0	2.5	4.0
150 Delta Grow 4861LL	50	/	84	39	1.0	1.5	/	/
195 REV TM 49R10 TM	50	/	93	41	1.8	1.0	3.5	6.0
165 P4606RR	49	/	95	34	1.0	1.5	3.5	5.5
193 REV TM 49R21 TM	49	/	105	41	2.0	1.0	2.0	5.0
141 Delta King DKR 4744	49	/	97	36	1.5	1.5	3.0	5.5
162 Channel 4851R Brand	49	/	95	34	1.0	1.0	2.0	4.0
74 Croplan 4539	49	/	87	36	1.5	1.0	4.5	6.0
31 HBK R4527	49	53	88	39	1.8	1.0	4.5	/
96 S07-5151	48	/	87	35	1.3	1.0	4.0	6.0
20 Terral TV49R17	48	48	87	40	1.8	1.5	2.5	6.5
101 UA 4805	48	/	91	18	1.0	3.0	4.0	5.0
134 495.RC	48	/	93	32	1.0	2.0	3.0	4.5
54 Asgrow AG4630	48	/	94	34	1.5	1.5	3.0	5.5
175 P4610RY	48	/	87	33	1.0	1.0	3.0	5.0
200 REV TM 48R22 TM	48	/	84	33	1.5	1.5	7.0	/
87 Pioneer 94Y92	48	/	84	37	2.5	2.0	4.5	5.5
17 S49-A5 Brand	48	/	95	37	1.5	1.5	4.0	6.5
171 P4807RR	48	50	84	37	1.5	1.0	2.5	5.0
121 Armor ARX 1478	47	/	84	31	1.3	2.0	3.5	5.0
18 Terral TV46R19	47	48	100	39	1.0	1.0	3.0	4.0
132 457.RCP	47	/	84	36	2.0	1.5	6.0	/
19 Terral TV47R18	47	50	42	38	2.0	1.0	3.5	4.0
178 P4860LL	46	/	84	38	1.0	1.0	/	/
140 Armor ARX 47-R33	46	/	88	31	1.0	1.0	3.0	5.5
107 S07-15722 RR	46	/	87	40	1.8	1.0	3.5	6.5
160 Dyna-Gro 35RY47	46	/	84	37	1.3	1.5	5.0	/
26 Morsoy Xtra 51X10	46	/	93	22	1.0	2.5	4.0	4.5
194 REV TM 48R10TM	45	/	88	34	1.5	1.0	3.0	4.5
113 Armor ARX 1471	42	/	84	31	1.0	1.0	/	/
143 Armor 47-F8	42	48	84	32	1.0	1.0	/	/

LSD (P=.10)	6.60	-	13.0	4.3	0.9	0.9	1.6	1.6
Standard Deviation	5.67	-	7.8	2.6	0.5	0.6	1.0	1.0
CV	10.97	-	8.6	7.4	37.8	42.3	27.9	20.2
Grand Mean	51.69	-	91.0	35.1	1.4	1.3	3.4	4.8

- a) Yield is expressed in bushels per acre
- b) Maturity = Number of days to reach physiological maturity (R8 growth stage)
- c) Plant height in inches at R8 growth stage
- d) Lodging = Rated on a scale of 1-5, where 1 = no lodging and 5 = all plants are down
- e) CB = Cercospora blight, rated on a scale of 1-9, where 1 = no disease symptoms and 9 = 100% defoliation and all plants are dead

Table 3. Performance of Maturity Group V Soybean Varieties at the Dean Lee Research Station in 2010.

Entry No.	Entry Name	2009/2010		Maturity ^d	Plant Height ^c	Lodging ^d	CB ^e 7-Sep
		Yield ^a	Avg ^a				
35	MorSoy RT 5388N	68	61	137	32	1.0	5
25	Terral TV59R16	67	62	138	36	1.0	3
59	Asgrow AG5606	67	62	138	33	1.5	5
206	AGS 597 RR	66	/	137	35	1.0	4
46	HBK R5226	66	61	138	29	1.0	4
24	Terral TV55R20	65	59	135	35	1.5	5
22	Terral TV54R28	65	/	131	33	1.0	5
202	REV TM 56R21 TM	64	/	135	36	1.5	6
36	MorSoy RT 5429	64	/	138	31	1.0	4
109	S05-11482	64	/	131	32	1.0	7
201	REV TM 54R21 TM	63	/	128	27	1.0	6
79	Croplan 5663	63	59	135	30	1.0	4
158	Dyna-Gro 35F55	63	58	138	34	1.0	3
159	Dyna-Gro 35P53	63	/	133	34	1.0	5
94	Pioneer 95M82	63	/	137	34	1.0	4
99	Jake	63	/	138	31	1.0	4
39	MX R2 520	62	/	131	32	1.0	6
157	Dyna-Gro 33X55	62	56	138	35	1.0	3
183	P5706RR	62	60	138	38	1.5	3
97	S05-11268	62	/	128	26	1.0	5
38	Morsoy Xtra 52X10	62	/	133	31	1.0	5
77	Croplan 5007	61	52	130	31	1.0	6
42	HALO 5:65 LL	61	/	138	33	1.0	4
125	Armor ARX 1535	61	/	135	31	1.0	5
180	P5218RR	61	56	137	31	1.0	5
123	Delta King DKX 1533	61	/	128	36	1.0	7
185	P5210RY	60	/	135	31	1.0	4
70	USG 7582nRR	60	60	138	37	1.0	4
6	Delta Grow 5555RR	60	57	138	29	1.5	4
156	Dyna-Gro 33B52	60	56	128	31	1.0	7
191	P5330RR	60	/	133	36	1.5	5
205	AGS 554 RR	60	/	138	30	1.0	3
63	HBK RY5220	60	/	128	30	1.0	6
207	AGS 568 RR	60	/	138	33	1.0	4
43	HALO 5:25 LL	59	/	138	27	1.0	4
91	Pioneer 95Y40	59	56	138	21	1.0	5
68	Delta Grow 5970RR	59	57	138	35	1.0	3
65	HBK RY5820	59	/	137	32	1.0	4
137	AGS 557 RC	59	56	138	25	1.0	4
33	MorSoy RT 5168	59	53	138	38	1.8	5
23	Terral TV55R15	59	56	137	33	1.0	4
5	Delta Grow 5280RR	59	56	138	32	1.0	5
98	S06-4649 RR	59	/	133	38	1.8	5
187	P5610RY	58	/	135	29	1.0	5
103	Osage	58	/	138	31	1.0	4
149	Delta King DK 5363	58	/	138	34	1.5	4
78	Croplan 5419	58	/	137	36	1.0	5
182	P5650RR	58	/	138	33	1.0	3
40	Delta Grow 5275RR2	58	/	133	35	1.0	5
181	P5622RR	57	59	138	37	1.0	4

47 HBK R5525	57	56	138	28	1.0	4
14 Delta Grow 5300 RR	57	53	133	31	1.0	5
93 Pioneer 95Y70	57	/	138	37	1.5	4
81 Croplan 5222	57	54	131	31	1.0	5
80 Croplan 5892	57	56	138	37	1.0	4
147 Armor 53-Z5	56	53	138	22	1.0	4
209 REV TM 54R10	56	55	133	31	1.5	5
161 Dyna-Gro 37RY52	56	/	131	26	1.0	5
66 S56-G6 Brand	56	/	138	22	1.0	3
127 Delta King DKX 1538	56	/	131	32	1.0	6
90 Pioneer 95Y31	56	/	128	31	1.0	6
102 Ozark	55	/	135	25	1.0	4
190 P5960LL	55	/	137	36	1.0	4
208 AGS 606 RR	55	/	138	33	1.0	3
60 Asgrow AG5831	55	/	138	30	1.0	4
37 MorSoy RT 5688N	55	56	137	32	1.0	4
88 Pioneer 95Y01	55	53	135	36	2.0	6
189 P5460LL	55	/	131	37	1.0	6
146 Delta King GP-500	55	52	128	25	1.0	6
110 S06-3053 RR	55	/	133	35	1.0	6
92 Pioneer 95M50	55	/	135	23	1.0	5
124 Delta King DKX 1534	54	/	130	31	1.0	7
188 P5160LL	54	/	138	30	1.0	5
179 P5115RR	53	49	137	42	2.5	5
4 S57-K3 Brand	53	/	138	34	1.0	3
199 REV TM 57R21 TM	53	/	135	34	1.5	5
148 Delta King GP-533	53	55	137	28	1.0	5
45 HBK R5529	52	/	128	29	1.0	5
105 USG 75T18	52	/	128	30	1.0	6
55 Asgrow AG5331	52	/	131	22	1.0	6
58 Asgrow AG5531	52	/	135	23	1.0	5
56 Asgrow AG5431	52	/	137	40	2.0	5
122 Armor ARX 1531	52	/	128	21	1.0	5
151 Delta Grow 5461LL	51	/	130	35	1.0	7
57 Asgrow AG5503	51	49	139	39	1.0	2
126 Delta King DKX 1537	51	/	132	29	1.0	7
184 P5110RY	50	/	128	22	1.0	5
131 Armor ARX 1552	50	/	137	42	2.5	3
186 P5310RY	49	/	131	42	3.0	6
129 Delta King DKX 1540	48	/	131	41	2.5	5
48 HBK R7028	48	/	139	38	1.0	3
34 Morsoy Xtra 54X10	48	/	135	39	1.5	3
3 S51-T8 Brand	48	/	135	34	2.0	3
64 HBK RY5520	47	/	137	37	1.5	4
130 Armor ARX 1551	47	/	135	40	2.0	4
89 Pioneer 95Y20	47	/	133	23	1.0	5
128 Delta King DKX 1539	45	/	133	42	2.0	5

LSD (P=.10)	6.5	-	2.9	5.4	0.7	1.1
Standard Deviation	5.6	-	1.7	3.3	0.4	0.7
CV	9.8	-	1.3	10.3	34.2	15.6
Grand Mean	57.2	-	134.6	32.0	1.2	4.4

- a) Yield is expressed in bushels per acre
b) Maturity = Number of days to reach physiological maturity (R8 growth stage)
c) Plant height in inches at R8 growth stage
d) Lodging = Rated on a scale of 1-5, where 1 = no lodging and 5 = all plants are down
e) CB = Cercospora blight, rated on a scale of 1-9, where 1 = no disease symptoms and 9 = 100% defoliation and all plants are dead

Macon Ridge Research Station
Maturity Group III and Early IV
Agronomic and Cultural Practices

Maturity Group:	MGIII and MG EarlyIV				
Location:	Macon Ridge Research Station				
Irrigated (yes or no):	Yes				
Irrigation Type:					
Tillage System:					
Soil pH:					
Organic Matter (%):					
Soil Texture:	silt loam				
Row Spacing (inches):	40				
Row/Plot Length (feet):	20				
Planting Date:	27-Apr				
Harvest Date:	30-Aug				
Seeding Rate (sd/A):					
Foliar Insecticide 1:	Discipline + Tracer	Rate:	6.4 oz/A + 1.5 oz/A	Date:	23-Jul
Foliar Insecticide 2:	Belt	Rate:	2 oz/A	Date:	16-Aug
Preplant Herb:	Trifluralin	Rate:		Date:	
Pre Emerge Herb 1:	Linex + Dual	Rate:		Date:	
Post Herb 1:	Poast Plus	Rate:		Date:	
Harvest Aid		Rate:		Date:	
Trial Comments (General Observations and Growing Conditions):					

Macon Ridge Research Station

Maturity **Group IV**

Agronomic and Cultural Practices

Maturity Group:	MG IV			
Location:	Macon Ridge Research Station			
Irrigated (yes or no):	Yes			
Irrigation Type:				
Tillage System:				
Soil pH:				
Organic Matter (%):				
Soil Texture:	silt loam			
Row Spacing (inches):	40			
Row/Plot Length (feet):	20			
Planting Date:	27-Apr			
Harvest Date:	9-Aug			
Seeding Rate (sd/A):				
Foliar Insecticide 1:	Discipline + Tracer	Rate:	6.4 oz/A + 1.5 oz/A	Date: 23-Jul
Foliar Insecticide 2:	Belt	Rate:	2 oz/A	Date: 16-Aug
Preplant Herb:	Trifluralin	Rate:		Date:
Pre Emerge Herb 1:	Linex + Dual	Rate:		Date:
Post Herb 1:	Poast Plus	Rate:		Date:
Harvest Aid		Rate:		Date:
Trial Comments (General Observations and Growing Conditions):				

Macon Ridge Research Station

Maturity Group V

Agronomic and Cultural Practices

Maturity Group:	MG V				
Location:	Macon Ridge Research Station				
Irrigated (yes or no):	Yes				
Irrigation Type:					
Tillage System:					
Soil pH:					
Organic Matter (%):					
Soil Texture:	silt loam				
Row Spacing (inches):	40				
Row/Plot Length (feet):	20				
Planting Date:	27-Apr				
Harvest Date:	23-Sep				
Seeding Rate (sd/A):					
Foliar Insecticide 1:	Discipline + Tracer	Rate:	6.4 oz/A + 1.5 oz/A	Date:	23-Jul
Foliar Insecticide 2:	Belt	Rate:	2 oz/A	Date:	16-Aug
Preplant Herb:	Trifluralin	Rate:		Date:	
Pre Emerge Herb 1:	Linex + Dual	Rate:		Date:	
Post Herb 1:	Poast Plus	Rate:		Date:	
Harvest Aid		Rate:		Date:	
Trial Comments (General Observations and Growing Conditions):					

Table 4. Performance of Maturity Group III and Early IV Soybean Varieties at the Macon Ridge Research Station in 2010.

Entry No.	Entry Name	2009/2010			Plant Height ^c	Lodging ^d	Salt Damage ^e	Seed Quality ^f	% Green Stem ^g	% Green Leaf ^h	Shatter Rating ⁱ	CB ^j 16-Aug
		Yield ^a	Avg ^a	Maturity ^b								
73	Croplan 4455	74	/	122	47	2.4	1	1.8	82.5	9.5	4.0	5.5
152	Dyna-Gro 36C44	72	75	118	33	1.1	1	1.5	32.5	1.8	7.8	6.0
204	Pioneer 94Y40	72	/	120	35	2.3	1	2.0	71.3	11.3	0.3	6.0
142	Armor 42-M1	71	77	120	35	1.6	1	1.3	25.0	0.5	0.3	5.0
203	Asgrow EXP943R2	71	/	115	42	2.8	1	1.3	32.5	0.5	8.8	6.0
8	Delta Grow 4470RR	71	/	119	32	1.4	1	1.5	38.8	1.0	8.0	5.0
197	REVTM 44R22 TM	70	/	114	37	1.9	1	1.0	21.3	0.3	0.3	7.5
164	P4209RY	69	/	120	40	2.9	1	1.8	21.3	1.0	0.8	4.5
52	Asgrow EXP944R2	69	/	115	36	2.6	1	1.5	11.3	0.0	1.8	6.0
1	S44-D5 Brand	68	73	121	42	2.3	1	2.0	97.5	12.3	1.5	4.0
163	P4206RR	68	68	117	37	1.4	1	1.5	35.0	0.8	8.8	5.5
71	Croplan 3967	67	/	109	39	1.4	1	1.8	10.0	0.0	0.8	/
95	S07-5049	67	/	114	37	2.9	1	1.6	55.0	4.5	0.0	5.5
84	Pioneer 94Y20	67	/	116	41	3.0	1	1.8	62.5	9.5	0.3	7.0
72	Croplan 4417	67	/	118	42	2.5	1	1.5	73.8	4.3	10.0	6.0
83	Pioneer 93Y92	66	/	112	38	2.5	1	1.8	50.0	5.5	2.8	6.0
139	Delta King DKR 4440	65	/	123	46	2.6	1	2.5	91.3	21.3	4.3	4.5
LSD (P=.10)		4.3	-	1.8	2.0	0.5	-	0.6	20.4	6.2	3.9	1.9
Standard Deviation		3.6	-	1.5	1.7	0.4	-	0.5	17.1	5.2	3.3	1.1
CV		5.2	-	1.3	4.4	19.8	-	30.3	35.8	105.9	92.6	18.9
Grand Mean		68.9	-	117.1	38.7	2.2	1.0	1.6	47.7	4.9	3.5	5.6

- a) Yield is expressed in bushels per acre
- b) Maturity = Number of days to reach physiological maturity (R8 growth stage)
- c) Plant height in inches at R8 growth stage
- d) Lodging = Rated on a scale of 1-5, where 1 = no lodging and 5 = all plants are down
- e) Salt Damage = Rated on a scale of 1 to 5, where 1 = no chlorotic tissue and 5 = severe leaf desiccation and defoliation
- f) Seed Quality = Rated on a scale of 1 to 5, where 1 = outstanding seed quality and 5 = very poor seed quality
- g) %Green = Percentage of stems remaining green at harvest maturity
- h) %Leaf = Percentage of green leaves retained at harvest maturity
- i) Shattering % = The percentage of pods that shattered at harvest maturity
- j) CB = Cercospora blight, rated on a scale of 1-9, where 1 = no disease symptoms and 9 = 100% defoliation and all plants are dead

Table 5. Performance of Maturity Group IV Soybean Varieties at the Macon Ridge Research Station in 2010.

Entry No.	Entry Name	2009/2010			Plant Height ^c	Lodging ^d	Salt Damage ^e	Seed Quality ^f	% Green Stem ^g	% Green Leaf ^h	Shatter Rating ⁱ	CB ^j 16-Aug
		Yield ^a	Avg ^a	Maturity ^b								
82	Asgrow AG4605	81	65	124	41	1.3	1	1.0	97.5	6.5	2.0	3.0
49	Asgrow EXP948R2	80	/	125	45	2.3	1	1.3	67.5	1.5	0.7	4.0
7	Delta Grow 4880RR	78	/	129	37	4.5	1	2.0	92.5	7.5	2.0	5.0
10	MorSoy RTS 4824	77	72	129	41	2.5	1	2.0	90.0	10.8	0.7	3.0
106	S06-3095 RR	76	/	128	44	2.3	1	1.5	70.0	1.5	26.3	2.5
196	REV TM 49R22 TM	76	/	129	45	3.5	1	1.5	77.5	5.3	1.7	3.0
51	Asgrow EXP946R2	76	/	119	39	2.0	1	1.0	7.5	0.0	1.7	6.5
198	REV TM 48R21 TM	76	/	127	40	2.0	1	1.8	100.0	3.3	0.3	3.0
113	Armor ARX 1471	75	/	116	38	1.0	1	1.3	9.0	0.0	18.3	7.0
168	P4510RY	75	/	122	40	2.0	1	1.0	17.8	0.0	3.7	6.5
15	Delta Grow 4770 RR	75	69	121	46	3.5	1	1.8	36.3	0.3	2.3	6.0
138	458.RCS	75	/	124	39	2.0	1	1.5	57.5	0.5	3.0	5.0
26	Morsoy Xtra 51X10	75	/	130	27	1.0	1	1.3	95.0	17.5	0.0	2.5
165	P4606RR	75	64	124	38	1.7	1	1.0	47.5	0.3	1.3	4.5
111	Morsoy Xtra 46X29	74	/	121	38	2.0	1	1.5	17.8	0.3	4.3	6.0
54	Asgrow AG4630	73	/	123	40	3.3	1	1.5	40.0	0.8	1.3	5.0
175	P4610RY	73	/	122	37	1.7	1	1.0	20.0	0.0	16.7	5.5
141	Delta King DKR 4744	73	/	122	39	1.5	1	1.3	35.0	0.3	5.0	6.0
167	P4710RY	73	/	122	40	2.3	1	1.3	33.0	2.5	3.3	6.0
9	Delta Grow 4975RR	72	77	128	47	3.5	1	2.0	72.5	7.5	1.0	3.0
96	S07-5151	72	/	122	46	3.3	1	2.0	67.5	7.8	1.7	5.0
112	Morsoy Xtra 48X00	72	/	122	39	2.3	1	1.5	37.5	0.0	7.7	5.0
154	Dyna Gro 33G48	72	/	130	42	3.5	1	1.5	80.0	6.8	3.3	4.0
194	REV TM 48R10TM	72	/	124	39	2.5	1	2.0	42.5	0.8	5.0	4.5
162	Channel 4851R Brand	71	/	128	44	3.0	1	1.8	72.5	3.5	0.7	3.0
177	P4750RR	71	/	128	39	3.0	1	2.0	97.5	7.5	3.0	3.0
100	UA 4910	71	/	127	42	2.7	1	1.3	85.0	4.8	0.3	2.5
140	Armor ARX 47-R33	71	/	125	39	2.2	1	1.5	57.5	0.5	16.0	5.0
12	MorSoy RTS 4955N	70	67	132	47	4.0	1	2.0	65.0	3.5	1.3	3.5
86	Pioneer 94Y80	70	69	122	47	3.0	1	1.8	12.5	0.0	6.0	4.0
133	478.RCS	70	71	132	43	3.0	1	1.8	26.3	3.0	4.0	2.5
143	Armor 47-F8	70	64	124	36	1.5	1	1.3	38.0	0.3	2.3	4.5
32	HBK R4829	69	/	128	38	3.2	1	2.0	82.5	5.5	1.7	4.0
85	Pioneer 94Y70	69	70	122	43	2.5	1	2.0	76.3	3.8	0.7	5.5
155	Dyna-Gro 36Y48	69	67	131	45	3.8	1	1.8	52.5	2.5	1.3	3.5
171	P4807RR	69	/	127	41	3.0	1	1.8	53.8	5.3	0.7	4.5
76	Croplan 4998	69	74	137	46	3.0	1	2.3	20.0	0.3	0.3	2.0
118	Armor ARX 1477	69	/	118	37	1.5	1.5	2.0	7.5	0.0	16.7	7.0
134	495.RC	69	/	129	45	3.0	1	1.5	46.3	3.5	5.7	4.0
173	P4810RY	69	/	118	38	2.0	1	1.5	10.0	0.0	27.7	8.0
121	Armor ARX 1478	69	/	119	38	1.0	1	1.3	1.3	0.0	25.7	6.5
160	Dyna-Gro 35RY47	68	/	121	46	3.0	1	1.8	17.5	0.3	11.0	6.0
27	Morsoy Xtra 49X10	68	/	129	45	3.3	1	1.3	41.3	1.5	12.7	4.5
62	HBK RY4920	67	/	127	40	3.0	1	1.3	85.0	3.3	6.7	4.0
116	Delta King DKX 1473	67	/	120	45	2.5	1	1.8	12.5	0.5	8.7	6.0
108	S07-5117	66	/	123	42	3.5	1	1.8	30.0	2.8	10.7	5.0
153	Dyna-Gro 37P49	66	70	126	49	4.0	1	2.3	85.0	10.3	0.7	3.5
192	REV TM 47R22 TM	66	/	122	45	3.0	1	1.7	50.0	2.0	15.0	5.0
44	HALO 4:65 LL	66	/	121	42	3.7	1	1.8	31.3	1.5	2.7	4.5
75	Croplan 4877	66	64	126	42	3.2	1	1.5	50.3	3.0	0.3	3.0
200	REV TM 48R22 TM	66	/	119	43	3.5	1	2.0	65.0	3.3	2.3	5.5

29 HBK R4729	66	68	122	39	2.0	1	1.8	21.3	0.8	4.0	5.0
144 Armor 47-G10	66	/	126	44	3.0	1	2.3	78.8	6.5	3.3	5.5
30 HBK R4924	66	64	131	52	3.7	1	1.5	62.5	2.5	4.7	3.0
87 Pioneer 94Y92	66	/	125	44	3.0	1	1.0	50.3	2.5	7.3	4.5
101 UA 4805	66	/	126	27	1.3	1	1.0	18.8	1.0	5.7	4.5
117 Delta King DKX 1474	66	/	120	46	3.0	1	1.5	6.5	0.0	11.7	5.0
169 P4960LL	66	/	121	47	3.7	1	2.0	11.3	0.0	23.3	4.0
2 S49-H7 Brand	65	70	128	42	2.0	1	1.8	92.5	8.5	2.3	3.0
145 Delta King DK 4968	64	66	129	46	3.5	1	1.3	38.8	0.8	13.3	4.0
170 P4906RR	64	/	127	45	4.0	1	2.5	92.5	12.5	1.0	4.0
74 Croplan 4539	64	/	116	50	3.7	1	1.0	7.5	0.5	14.0	/
13 Delta Grow 4970RR	64	59	131	47	3.5	1	1.3	57.5	9.5	3.0	3.5
21 Terral TV49R19	64	70	127	43	1.3	1	1.3	70.0	4.0	1.0	2.0
16 S47-R3 Brand	64	/	126	46	4.0	1	1.5	32.5	2.8	3.0	2.5
19 Terral TV47R18	64	67	123	46	2.8	1	2.0	52.5	0.8	14.3	3.5
119 Delta King DKX 1491	64	/	127	42	2.5	1	1.5	31.3	2.8	8.3	4.0
53 Asgrow AG4730	63	/	116	38	1.5	1	1.3	2.5	0.0	5.3	6.0
166 P4908RR	63	/	127	49	3.0	1	1.5	97.5	20.0	5.3	3.0
178 P4860LL	63	/	123	47	3.3	1	2.0	88.8	1.8	0.7	5.0
209 Armor ARX 1483	63	/	116	39	1.3	1	1.3	7.5	0.0	1.7	/
210 Armor ARX 1484	63	/	117	38	2.0	1	1.5	7.8	0.0	2.3	6.0
69 USG 74F96	63	64	131	47	3.2	1	1.3	33.0	1.8	4.0	3.5
132 457.RCP	63	/	119	47	2.7	1	2.0	8.0	0.0	3.3	3.0
150 Delta Grow 4861LL	63	/	124	50	3.0	1	2.0	92.5	5.5	1.0	4.5
176 P4920RY	63	/	128	44	3.0	1	1.3	70.0	5.5	7.3	3.5
120 Delta King DKX 1492	62	/	126	43	3.7	1	1.8	42.3	1.0	11.7	4.5
104 USG 74T98	61	/	128	28	1.0	1	1.0	42.5	4.5	4.0	5.0
18 Terral TV46R19	60	60	124	46	2.5	1	2.3	45.0	1.0	3.0	5.5
135 499.RC	60	/	132	50	3.8	1	1.0	60.0	7.3	6.0	3.0
172 P4928LL	60	/	125	47	2.3	1	1.5	30.3	1.0	36.7	4.5
11 MorsSoy RT 4914N	60	59	132	47	4.0	1	1.8	47.5	3.0	2.0	3.5
174 P4949RR	59	60	126	52	4.0	1	1.8	32.5	0.5	4.7	4.5
136 4990.RC	59	62	130	44	3.5	1	1.3	46.3	5.5	3.7	4.0
195 REV TM 49R10 TM	59	62	125	51	4.0	1	1.8	90.0	3.5	4.3	4.5
41 HALO 4:94 LL	59	/	128	48	2.7	1.5	1.8	10.0	0.8	25.0	3.0
31 HBK R4527	58	64	121	48	3.0	1	1.3	8.8	0.5	10.3	6.0
107 S07-15722 RR	57	/	121	53	2.5	1	2.0	36.3	1.8	35.0	6.0
17 S49-A5 Brand	56	/	121	50	2.7	1	2.0	6.3	0.0	8.0	3.5
20 Terral TV49R17	55	59	126	53	2.5	1.5	1.3	60.0	0.3	30.0	4.5
193 REV TM 49R21 TM	55	61	128	58	3.0	1	1.5	87.5	6.3	8.0	4.0

LSD (P=.10)	4.8	-	2.7	3.5	0.8	0.2	0.5	24.7	4.7	5.7	1.5
Standard Deviation	4.1	-	2.3	3.0	0.6	0.2	0.4	21.2	4.1	4.9	0.9
CV	6.1	-	1.8	6.9	20.7	17.8	28.0	44.3	132.5	69.1	20.6
Grand Mean	67.3	-	124.7	43.1	2.8	1.0	1.6	47.9	3.1	7.1	4.4

- a) Yield is expressed in bushels per acre
b) Maturity = Number of days to reach physiological maturity (R8 growth stage)
c) Plant height in inches at R8 growth stage
d) Lodging = Rated on a scale of 1-5, where 1 = no lodging and 5 = all plants are down
e) Salt Damage = Rated on a scale of 1 to 5, where 1 = no chlorotic tissue and 5 = severe leaf desiccation an
f) Seed Quality = Rated on a scale of 1 to 5, where 1 = outstanding seed quality and 5 = very poor seed quality
g) %Green = Percentage of stems remaining green at harvest maturity
h) %Leaf = Percentage of green leaves retained at harvest maturity
i) Shattering % = The percentage of pods that shattered at harvest maturity
j) CB = Cercospora blight, rated on a scale of 1-9, where 1 = no disease symptoms and 9 = 100% d

Table 6. Performance of Maturity Group V Soybean Varieties at the Macon Ridge Research Station in 2010.

Entry No.	Entry Name	2009/2010			Plant Height ^c	Lodging ^d	Salt Damage ^e	Seed Quality ^f	% Green Stem ^g	% Green Leaf ^h	Shatter Rating ⁱ	CB ^j 23-Aug	CB ^j 1-Sep
		Yield ^a	Avg ^a	Maturity ^b									
63	HBK RY5220	77	/	137	34	1.3	1.5	1.0	72.5	5.5	3.0	4.0	6.5
91	Pioneer 95Y40	75	81	142	26	1.0	1.0	1.3	90.0	13.0	0.7	3.5	5.5
109	S05-11482	75	/	136	23	1.0	1.0	1.5	100.0	33.8	0.3	4.0	5.5
201	REV TM 54R21 TM	74	/	136	32	1.0	1.3	1.0	57.5	5.3	3.3	3.0	6.5
97	S05-11268	73	/	134	26	1.3	2.5	1.0	70.0	2.0	1.3	5.0	8.0
59	Asgrow AG5606	73	75	140	34	2.0	1.0	1.3	87.5	3.5	1.0	2.5	4.5
124	Delta King DKX 1534	73	/	134	34	1.1	2.5	1.0	37.5	2.3	4.0	4.0	7.0
199	REV TM 57R21 TM	73	/	138	39	2.8	1.0	1.3	82.5	8.8	1.0	3.5	6.0
187	P5610RY	72	/	138	33	1.3	1.5	1.0	55.0	2.5	1.0	3.5	6.0
123	Delta King DKX 1533	72	/	134	34	1.3	1.5	1.0	45.0	1.8	2.7	6.0	/
37	MorSoy RT 5688N	72	78	140	34	1.5	1.0	1.0	82.5	6.8	0.3	3.0	5.0
36	MorSoy RT 5429	71	/	140	34	1.0	1.0	1.0	32.5	1.3	2.0	2.5	5.5
103	Osage	71	/	136	24	1.0	1.0	1.0	62.5	1.8	7.3	3.0	7.0
184	P5110RY	71	/	135	26	1.0	1.0	1.5	100.0	23.8	0.7	3.0	5.5
209	REV TM 54R10	71	/	139	32	1.5	1.0	1.0	92.5	15.8	1.7	3.0	4.5
65	HBK RY5820	71	/	138	31	1.0	1.0	1.0	38.8	1.5	1.7	4.0	6.0
60	Asgrow AG5831	70	/	137	29	1.0	1.0	1.0	17.5	0.5	0.3	3.5	6.0
90	Pioneer 95Y31	70	/	134	40	2.5	1.0	1.0	50.0	2.0	2.0	4.5	7.5
25	Terral TV59R16	69	76	141	35	1.8	1.0	1.0	87.5	10.8	0.0	3.0	5.0
35	MorSoy RT 5388N	69	77	137	32	1.3	1.0	1.3	47.5	3.3	1.3	5.0	7.0
88	Pioneer 95Y01	69	69	134	44	3.3	1.0	1.5	50.0	1.3	4.3	5.5	7.0
147	Armor 53-Z5	69	69	139	28	1.0	1.0	1.3	95.0	21.3	0.0	2.5	5.0
42	HALO 5:65 LL	69	/	141	31	1.3	1.0	1.0	95.0	18.8	1.3	3.0	5.0
81	Croplan 5222	68	75	138	37	1.8	1.5	1.0	70.0	3.3	1.0	3.5	5.5
47	HBK R5525	68	73	142	31	1.0	1.0	1.0	30.0	1.3	1.0	3.0	5.0
46	HBK R5226	67	75	136	30	1.0	1.0	1.3	45.0	4.3	6.0	3.5	6.5
77	Croplan 5007	67	71	134	35	1.0	2.1	1.0	50.0	2.0	5.3	5.0	7.5
99	Jake	67	/	138	31	1.0	1.0	1.3	80.0	4.8	2.0	3.0	6.0
157	Dyna-Gro 33X55	67	74	140	33	1.0	1.0	1.0	8.8	0.5	3.7	2.0	5.0
68	Delta Grow 5970RR	67	75	147	37	2.3	1.0	1.0	95.0	12.8	0.3	2.0	3.0
148	Delta King GP-533	67	73	137	36	1.3	1.0	1.3	11.3	0.3	0.3	3.5	6.0
58	Asgrow AG5531	66	/	135	28	1.0	1.0	1.0	27.5	0.5	3.0	4.0	7.5
188	P5160LL	66	/	138	27	2.5	1.0	1.0	67.5	1.8	1.3	4.0	6.0
137	AGS 557 RC	66	68	142	30	1.0	1.0	1.0	77.5	5.3	1.0	3.5	5.0
206	AGS 597 RR	66	/	142	33	2.0	1.3	1.0	82.5	7.0	0.0	2.5	5.5
92	Pioneer 95M50	66	/	139	33	2.3	1.0	2.0	75.0	4.8	0.3	3.0	5.5
40	Delta Grow 5275RR2	65	/	132	37	2.1	3.8	1.0	5.0	0.0	6.3	6.5	/
43	HALO 5:25 LL	65	/	139	24	1.0	1.3	1.0	40.0	0.3	1.0	3.5	6.5
79	Croplan 5663	65	73	143	28	1.0	1.0	1.5	72.5	14.3	0.3	3.0	5.5
202	REV TM 56R21 TM	65	/	138	36	1.3	1.0	1.3	100.0	27.5	0.3	3.5	5.0
207	AGS 568 RR	65	/	141	35	1.0	1.0	1.0	12.5	1.3	3.7	2.0	4.0
45	HBK R5529	65	/	142	30	1.4	1.0	1.8	90.0	10.8	0.3	3.0	5.0
94	Pioneer 95M82	65	/	139	36	1.3	1.0	1.0	55.0	1.5	1.7	3.0	5.0
156	Dyna-Gro 33B52	65	69	134	28	1.8	2.3	1.0	11.3	0.3	2.7	5.0	/
205	AGS 554 RR	64	/	142	33	1.3	1.0	1.8	95.0	11.5	2.3	2.0	5.0
122	Armor ARX 1531	64	/	134	25	1.0	1.3	1.3	95.0	16.3	1.3	4.0	6.0
110	S06-3053 RR	64	/	136	35	1.0	1.0	1.3	72.5	4.8	23.3	4.0	6.0
183	P5706RR	64	69	147	36	2.0	1.0	1.0	90.0	13.8	1.0	2.0	3.5
190	P5960LL	64	/	141	35	1.3	1.0	1.0	82.5	9.3	1.3	3.0	5.0
89	Pioneer 95Y20	63	/	138	29	1.0	1.0	1.3	20.0	0.8	0.3	4.0	6.5
98	S06-4649 RR	63	/	137	37	2.5	1.0	1.0	77.5	9.5	4.0	3.0	5.5
146	Delta King GP-500	63	66	132	32	1.5	2.9	1.3	8.8	0.0	1.0	5.0	8.0
22	Terral TV54R28	63	66	133	34	1.5	1.0	1.0	27.5	0.8	9.0	6.0	/
33	MorSoy RT 5168	63	60	135	47	4.3	2.8	1.8	55.0	0.5	2.3	4.5	8.0
105	USG 75T18	63	/	132	29	1.0	3.5	1.5	8.8	0.3	3.0	6.0	/
4	S57-K3 Brand	62	/	142	33	1.0	1.0	1.8	67.5	8.5	0.7	3.0	5.5
5	Delta Grow 5280RR	62	70	139	30	1.0	1.0	1.8	60.0	2.8	6.3	3.5	6.0
125	Armor ARX 1535	62	/	131	30	1.8	3.8	1.0	0.0	0.0	0.0	6.0	8.0
180	P5218RR	62	/	140	31	1.0	1.0	1.8	27.5	1.0	6.3	3.5	5.5
182	P5650RR	62	/	146	40	2.5	1.0	1.0	65.0	7.5	0.0	3.0	4.5
102	Ozark	62	/	133	26	2.0	1.0	1.0	10.0	0.3	0.7	4.0	8.0
161	Dyna-Gro 37RY52	61	/	132	29	1.5	3.8	1.0	2.5	0.3	0.0	7.0	/
57	Asgrow AG5503	61	63	142	42	2.0	1.5	1.3	37.5	1.5	1.7	2.5	5.5
185	P5210RY	61	/	131	31	2.5	2.3	1.0	1.3	0.0	0.3	6.0	8.0
66	S56-G6 Brand	61	/	143	28	1.0	1.0	1.3	65.0	3.0	0.7	3.0	5.0
80	Croplan 5892	61	70	145	47	2.3	1.0	1.0	95.0	12.5	3.3	2.0	4.0
149	Delta King DK 5363	61	/	139	36	1.3	1.5	1.0	40.0	0.8	3.3	3.5	5.0
55	Asgrow AG5331	61	/	137	28	1.0	3.0	1.0	52.5	3.3	2.0	5.0	7.5
78	Croplan 5419	61	/	138	38	2.0	1.0	1.0	15.0	0.3	0.7	4.0	6.0

159 Dyna-Gro 35P53	61	/	134	36	2.0	2.9	1.3	2.5	0.0	0.7	5.0	8.0
191 P5330RR	61	/	134	35	1.5	1.0	1.0	28.8	1.0	8.3	5.5	8.0
23 Terral TV55R15	60	60	137	35	1.5	1.5	1.0	2.5	0.0	0.3	4.0	6.5
6 Delta Grow 5555RR	60	66	136	35	1.6	1.0	1.0	2.5	0.0	0.3	4.0	6.0
14 Delta Grow 5300 RR	60	/	136	34	1.3	2.5	1.0	52.5	6.3	5.3	4.5	6.5
24 Terral TV55R20	59	/	135	36	2.3	2.3	1.0	16.3	0.3	0.3	5.5	7.0
151 Delta Grow 5461LL	59	/	131	47	3.5	3.5	2.0	2.5	0.0	40.0	6.5	/
179 P5115RR	59	/	137	45	3.3	1.9	1.8	63.8	1.8	5.7	5.5	8.0
189 P5460LL	58	/	132	49	2.8	3.3	2.0	16.3	0.3	38.3	5.5	/
70 USG 7582nRR	57	66	143	33	1.0	1.0	1.5	72.5	13.3	1.3	3.0	5.0
38 Morsoy Xtra 52X10	57	/	115	32	1.0	4.0	1.0	0.0	0.0	4.0	6.5	/
93 Pioneer 95Y70	57	64	141	39	2.8	1.0	1.0	5.0	0.0	1.0	3.0	5.0
208 AGS 606 RR	56	/	145	30	1.3	1.0	1.3	77.5	3.5	2.7	2.5	4.5
127 Delta King DKX 1538	56	/	132	30	1.0	3.0	1.0	26.3	0.0	5.3	7.0	/
158 Dyna-Gro 35F55	56	59	139	36	1.5	2.0	1.0	16.3	0.3	0.3	4.0	6.5
181 P5622RR	55	/	140	35	1.0	1.0	1.5	50.0	2.0	1.7	4.0	5.5
126 Delta King DKX 1537	55	/	133	32	1.0	3.8	1.3	15.0	0.0	4.0	7.5	/
3 S51-T8 Brand	54	/	137	45	2.3	2.3	3.0	97.5	37.5	1.3	3.0	5.0
56 Asgrow AG5431	54	/	137	57	3.0	1.5	2.3	72.5	2.3	1.0	4.5	7.0
129 Delta King DKX 1540	52	/	109	58	3.9	1.8	1.5	57.5	0.8	25.0	5.0	/
39 MX R2 520	50	/	132	31	1.0	3.0	1.3	15.0	0.3	6.7	7.5	/
128 Delta King DKX 1539	50	/	134	60	4.0	2.1	1.5	52.5	0.8	11.7	3.0	3.0
186 P5310RY	49	/	134	60	3.8	3.0	1.8	57.5	1.0	20.0	6.0	/
130 Armor ARX 1551	48	/	140	55	4.5	1.0	3.0	80.0	5.5	1.7	3.0	5.0
34 Morsoy Xtra 54X10	48	/	141	54	3.8	1.0	2.8	82.5	5.0	0.7	3.0	5.0
64 HBK RY5520	47	/	139	55	4.3	1.0	3.0	90.0	5.0	0.0	3.5	4.5
131 Armor ARX 1552	45	/	140	55	4.8	1.0	3.0	90.0	4.5	0.3	3.0	4.5
48 HBK R7028	43	/	155	36	1.0	1.8	1.5	46.7	0.0	0.0	3.0	4.0
LSD (P=.10)	5.1	-	7.2	3.7	0.7	1.0	0.4	23.8	6.0	4.4	1.1	1.0
Standard Deviation	4.4	-	6.1	3.1	0.6	0.9	0.3	20.5	5.1	3.3	0.7	0.6
CV	6.9	-	4.5	8.9	32.7	54.5	26.2	39.6	101.5	91.7	16.5	10.3
Grand Mean	63.0	-	137.2	35.3	1.8	1.6	1.3	51.7	5.1	3.6	4.0	5.8

- Yield is expressed in bushels per acre
- Maturity = Number of days to reach physiological maturity (R8 growth stage)
- Plant height in inches at R8 growth stage
- Lodging = Rated on a scale of 1-5, where 1 = no lodging and 5 = all plants are down
- Salt Damage = Rated on a scale of 1 to 5, where 1 = no chlorotic tissue and 5 = severe leaf desiccation and defoliation
- Seed Quality = Rated on a scale of 1 to 5, where 1 = outstanding seed quality and 5 = very poor seed quality
- %Green = Percentage of stems remaining green at harvest maturity
- %Leaf = Percentage of green leaves retained at harvest maturity
- Shattering % = The percentage of pods that shattered at harvest maturity
- CB = Cercospora blight, rated on a scale of 1-9, where 1 = no disease symptoms and 9 = 100% defoliation and all plants are dead

Rice Research Station
Maturity Group III and Early IV
Agronomic and Cultural Practices

Maturity Group:	MGIII and MG EarlyIV			
Location:	Rice Research Station (South Unit) Crowley, LA			
Irrigated (yes or no):	No			
Irrigation Type:	N/A			
Tillage System:	Spring-Stale			
Soil pH:	6.2			
Organic Matter (%):	1.84%			
Soil Texture:	silt loam			
Row Spacing (inches):	16			
Row/Plot Length (feet):	20			
Planting Date:	21-May			
Harvest Date:	16-Sep			
Seeding Rate (sd/A):	132,787			
Fertilizer Applied 1:	240 lb/A 0-24-24 applied June 2			
Foliar Insecticide 1:	Karate Z	Rate: 2 oz/A	Date: 1-Jun	
Foliar Insecticide 2:	Karate Z	Rate: 2 oz/A	Date: 23-Jul	
Foliar Insecticide 3:	Intrepid+Acephate 90	Rate: 6 oz/A + .7 lb/A	Date: 11-Aug	
Foliar Insecticide 4:	Karate Z	Rate: 2 oz/A	Date: 7-Sep	
Foliar Insecticide 5:		Rate:	Date:	
Preplant Herb:	Ignite (Burn Down)	Rate: 40 oz/A	Date: 3-May	
Pre Emerge Herb 1:	Glyphosate + Dual Magnum + Classic	Rate: 1.5 lbAI/A + 1.5 AI/A + .33 oz/A	Date: 21-May	
Post Herb 1:	Poast Plus + Basagran	Rate: 1 qt/A + 1.5 lb/A	Date: 25-Jun	
Trial Comments (General Observations and Growing Conditions):	Due to dry soil conditions, soybeans were planted later than normal. Emergence was on May 26, 2010. During the growing season, soil moisture conditions were outstanding and rainfall occurred at regular intervals.			

Rice Research Station

Maturity Group IV

Agronomic and Cultural Practices

Maturity Group:	MG IV			
Location:	Rice Research Station (South Unit) Crowley, LA			
Irrigated (yes or no):	No			
Irrigation Type:	N/A			
Tillage System:	Spring-Stale			
Soil pH:	6.2			
Organic Matter (%):	1.84%			
Soil Texture:	silt loam			
Row Spacing (inches):	16			
Row/Plot Length (feet):	20			
Planting Date:	21-May			
Harvest Date:	20-Sep			
Seeding Rate (sd/A):	132,787			
Fertilizer Applied 1:	240 lb/A 0-24-24 applied June 2			
Foliar Insecticide 1:	Karate Z	Rate: 2 oz/A	Date: 1-Jun	
Foliar Insecticide 2:	Karate Z	Rate: 2 oz/A	Date: 23-Jul	
Foliar Insecticide 3:	Intrepid+Acephate 90	Rate: 6 oz/A + .7 lb/A	Date: 11-Aug	
Foliar Insecticide 4:	Karate Z	Rate: 2 oz/A	Date: 7-Sep	
Foliar Insecticide 5:		Rate:	Date:	
Preplant Herb:	Ignite (Burn Down)	Rate: 40 oz/A	Date: 3-May	
Pre Emerge Herb 1:	Glyphosate + Dual Magnum + Classic	Rate: 1.5 lbAI/A + 1.5 AI/A + .33 oz/A	Date: 21-May	
Post Herb 1:	Poast Plus + Basagran	Rate: 1 qt/A + 1.5 lb/A	Date: 25-Jun	
Trial Comments (General Observations and Growing Conditions):	Due to dry soil conditions, soybeans were planted later than normal. Emergence was on May 26, 2010. During the growing season, soil moisture conditions were outstanding and rainfall occurred at regular intervals.			

Rice Research Station
Maturity Group V
Agronomic and Cultural Practices

Maturity Group:	MG V			
Location:	Rice Research Station (South Unit) Crowley, LA			
Irrigated (yes or no):	No			
Irrigation Type:	N/A			
Tillage System:	Spring-Stale			
Soil pH:	6.5			
Organic Matter (%):	1.84%			
Soil Texture:	silt loam			
Row Spacing (inches):	16			
Row/Plot Length (feet):	20			
Planting Date:	21-May			
Harvest Date:	30-Sep			
Seeding Rate (sd/A):	132,787			
Fertilizer Applied 1:	240 lb/A 0-24-24 applied June 10			
Foliar Insecticide 1:	Karate Z	Rate: 2 oz/A	Date: 1-Jun	
Foliar Insecticide 2:	Karate Z	Rate: 2 oz/A	Date: 23-Jul	
Foliar Insecticide 3:	Intrepid + Acephate 90	Rate: 6 oz/A + .7 lb/A	Date: 11-Aug	
Foliar Insecticide 4:	Karate Z	Rate: 2 oz/A	Date: 7-Sep	
Foliar Insecticide 5:		Rate:	Date:	
Preplant Herb:	Ignite (Burn Down)	Rate: 40 oz/A	Date: 3-May	
Pre Emerge Herb 1:	Glyphosate + Dual Magnum + Classic	Rate: 1.5 lb AI/A + 1.5 AI/A + .33 oz/A	Date: 21-May	
Post Herb 1:	Poast Plus + Basagran	Rate: 1 qt/A + 1.5 lb/A	Date: 25-Jun	
Trial Comments (General Observations and Growing Conditions):	Due to dry soil conditions, soybeans were planted later than normal. Emergence was on May 26, 2010. During the growing season, soil moisture conditions were outstanding and rainfall occurred at regular intervals.			

Table 7. Performance of Maturity Group III and Early IV Soybean Varieties at the Rice Research Station in 2010.

Entry No.	Entry Name	Yield ^a	Maturity ^b	Plant Height ^c	Lodging ^d	Test Weight ^e	AB ^f 7-Sep	FE ^g 7-Sep	CB ^h 7-Sep
164	P4209RY	83	115	41	1.0	50.87	2.3	3.3	4.0
142	Armor 42-M1	79	108	35	0.3	50.73	3.3	0.7	6.0
83	Pioneer 93Y92	78	108	36	1.7	50.67	3.0	1.0	5.3
72	Croplan 4417	76	107	41	3.3	50.63	2.7	1.0	5.0
152	Dyna-Gro 36C44	74	107	36	1.3	50.77	4.0	1.3	6.3
8	Delta Grow 4470RR	73	108	36	0.7	50.60	3.3	1.3	6.0
204	Pioneer 94Y40	73	110	37	0.7	50.50	1.7	2.0	5.7
73	Croplan 4455	73	111	43	3.0	51.03	2.3	1.0	5.3
84	Pioneer 94Y20	73	108	39	4.0	50.47	4.7	0.7	5.3
1	S44-D5 Brand	72	109	40	1.0	51.03	2.7	1.0	6.0
52	Asgrow EXP944R2	71	109	36	2.7	50.77	3.0	2.0	5.3
163	P4206RR	70	106	37	0.3	50.73	4.3	1.7	6.7
203	Asgrow EXP943R2	68	104	39	2.3	50.93	1.0	4.0	4.3
197	REVTM 44R22 TM	67	106	38	0.7	50.90	3.7	2.0	5.7
71	Croplan 3967	65	103	38	0.0	50.90	5.3	1.0	5.7
95	S07-5049	64	104	36	1.7	51.00	6.7	1.0	4.3
139	Delta King DKR 4440	63	114	42	1.3	50.63	1.7	2.3	4.7
LSD (P=.10)		4.9	2.7	2.7	1.6	0.2	2.2	1.6	1.6
Standard Deviation		3.5	1.9	2.0	1.1	0.2	1.6	1.2	1.1
CV		4.9	1.8	5.1	74.6	0.3	47.8	72.2	21.2
Grand Mean		71.8	108.1	38.2	1.5	50.8	3.3	1.6	5.4

- a) Yield is expressed in bushels per acre
- b) Maturity = Number of days to reach physiological maturity (R8 growth stage)
- c) Plant height in inches at R8 growth stage
- d) Lodging = Rated on a scale of 1-5, where 1 = no lodging and 5 = all plants are down
- e) Test weight = pounds per bushel
- f) AB = Anthracnose blight, rated on a scale of 1 to 9 where 1 = no disease symptoms and 9 = all leaves defoliated or showing severe disease symptoms
- g) FE = Frogeye leaf spot, rated on a scale of 1 to 9, where 1 = no disease symptoms and 9 = all leaves defoliated or showing severe disease symptoms
- h) CB = Cercospora blight, rated on a scale of 1-9, where 1 = no disease symptoms and 9 = 100% defoliation and all plants are dead

Table 8. Performance of Maturity Group IV Soybean Varieties at the Rice Research Station in 2010.

Entry No.	Entry Name	Yield ^a	Maturity ^b	Plant Height ^c	Lodging ^d	Test Weight ^e	AB ^f 7-Sep	FE ^g 7-Sep	CB ^h 7-Sep
168	P4510RY	77	116	37	1.0	50.73	2.0	1.7	5.7
85	Pioneer 94Y70	74	114	38	1.0	50.77	0.0	0.3	6.7
101	UA 4805	74	116	34	/	50.83	0.0	0.0	6.7
174	P4949RR	73	117	46	4.0	50.37	0.7	1.7	7.0
111	Morsoy Xtra 46X29	72	115	39	/	51.00	1.0	3.0	6.3
32	HBK R4829	72	118	40	3.0	51.07	0.0	0.0	7.0
177	P4750RR	72	115	45	2.0	51.20	0.0	0.0	6.0
145	Delta King DK 4968	72	116	43	1.5	51.07	1.0	2.0	7.0
194	REV TM 48R10TM	71	117	35	1.0	51.15	1.7	0.0	6.3
29	HBK R4729	71	115	42	1.5	50.83	0.7	1.7	6.7
192	REV TM 47R22 TM	70	115	42	1.0	50.90	1.0	1.7	5.0
113	Armor ARX 1471	70	112	40	/	51.10	0.0	0.0	6.3
54	Asgrow AG4630	69	117	40	/	50.87	1.0	0.0	7.0
169	P4960LL	69	112	38	/	51.53	1.3	1.0	7.7
138	458.RCS	69	115	38	2.0	50.63	1.7	0.0	6.3
132	457.RCP	69	113	45	1.5	50.70	0.7	0.3	7.3
143	Armor 47-F8	68	116	37	1.0	50.93	0.0	0.3	3.3
86	Pioneer 94Y80	68	114	42	2.0	51.33	0.3	0.3	7.3
172	P4928LL	68	113	40	/	50.60	1.7	2.0	7.3
116	Delta King DKX 1473	68	116	41	/	50.70	1.7	1.0	5.7
53	Asgrow AG4730	68	115	38	/	51.30	0.0	0.3	6.7
20	Terral TV49R17	68	116	42	1.0	50.53	0.0	4.0	6.7
175	P4610RY	68	115	43	2.0	50.93	0.7	1.3	7.0
117	Delta King DKX 1474	68	115	41	2.0	50.80	0.3	1.3	6.0
75	Croplan 4877	68	115	43	2.0	50.73	0.7	0.3	6.0
121	Armor ARX 1478	67	115	41	1.5	51.10	1.0	1.7	7.0
44	HALO 4:65 LL	67	115	40	/	50.33	1.3	0.3	6.7
7	Delta Grow 4880RR	67	114	35	1.0	50.70	1.0	0.3	7.7
17	S49-A5 Brand	67	113	45	2.3	51.53	1.3	1.0	7.7
9	Delta Grow 4975RR	67	115	37	1.0	50.73	0.3	0.7	6.3
31	HBK R4527	67	114	43	2.7	50.30	0.3	1.3	7.7
119	Delta King DKX 1491	67	115	41	1.0	50.60	1.7	0.3	6.7
162	Channel 4851R Brand	67	115	38	/	51.00	1.0	1.7	7.7
104	USG 74T98	67	115	34	/	51.00	0.7	1.3	7.3
118	Armor ARX 1477	67	115	39	1.0	51.30	0.3	0.7	7.3
21	Terral TV49R19	66	119	42	4.0	50.53	0.3	0.0	4.3
107	S07-15722 RR	66	117	43	2.5	50.63	0.3	0.3	7.3
200	REV TM 48R22 TM	66	114	41	3.0	51.00	0.7	0.0	7.3
166	P4908RR	66	115	42	1.0	50.70	0.0	0.0	5.7
49	Asgrow EXP948R2	66	118	43	1.5	50.60	0.7	0.7	6.0
120	Delta King DKX 1492	66	117	40	2.0	50.70	0.0	2.0	6.7
133	478.RCS	66	119	43	2.0	50.60	0.7	1.7	6.0
15	Delta Grow 4770 RR	66	116	39	/	50.77	0.0	2.0	6.3
51	Asgrow EXP946R2	66	116	44	2.0	50.67	0.0	1.3	6.7
10	MorSoy RTS 4824	66	115	39	/	50.67	0.0	0.3	5.3
2	S49-H7 Brand	66	117	41	/	50.83	0.3	0.0	6.7
112	Morsoy Xtra 48X00	66	117	39	1.0	50.33	0.0	0.7	4.3
210	Armor ARX 1484	66	116	37	1.0	50.87	1.0	0.7	6.3
209	Armor ARX 1483	66	116	41	3.0	50.63	0.7	2.7	7.3
170	P4906RR	65	117	41	/	50.57	0.3	1.7	6.3
167	P4710RY	65	117	39	2.0	50.83	0.7	4.0	6.0
74	Croplan 4539	65	116	38	3.0	50.73	1.0	2.0	6.3
13	Delta Grow 4970RR	65	117	38	3.5	51.15	1.0	3.0	6.0
106	S06-3095 RR	65	115	41	2.0	51.53	0.0	0.3	4.7
141	Delta King DKR 4744	65	116	39	2.0	50.67	0.0	2.3	6.3
19	Terral TV47R18	65	117	41	1.0	50.90	0.0	2.0	7.3
135	499.RC	64	118	43	2.5	50.60	0.3	0.3	6.3
154	Dyna Gro 33G48	64	115	39	1.0	50.27	0.0	2.3	6.0
153	Dyna-Gro 37P49	64	113	39	/	50.87	0.0	1.0	6.0
155	Dyna-Gro 36Y48	64	115	39	2.5	51.10	0.7	1.0	6.3
173	P4810RY	64	115	44	2.0	51.13	1.7	2.3	6.7
87	Pioneer 94Y92	64	117	40	1.0	49.70	0.0	2.3	5.0

171 P4807RR	64	116	41	4.0	50.87	1.7	0.7	6.3
134 495.RC	64	114	38	3.0	50.87	0.3	3.0	7.3
27 Morsoy Xtra 49X10	64	117	38	2.5	50.40	0.3	1.3	7.0
178 P4860LL	64	116	43	1.0	50.67	1.0	0.3	7.0
108 S07-5117	64	115	39	3.0	50.80	1.0	2.3	6.7
150 Delta Grow 4861LL	64	114	40	2.0	51.17	1.3	0.3	7.7
100 UA 4910	63	116	41	/	51.13	1.0	0.3	6.3
144 Armor 47-G10	63	118	40	1.0	50.13	0.3	0.7	4.7
69 USG 74F96	63	116	39	1.0	50.73	0.7	0.3	6.0
96 S07-5151	63	114	33	1.0	50.77	0.3	3.3	6.3
16 S47-R3 Brand	63	116	42	2.0	50.35	1.0	1.7	6.7
196 REV TM 49R22 TM	63	116	40	2.0	51.00	1.3	0.0	7.3
176 P4920RY	62	119	38	2.5	50.07	1.0	1.3	6.0
193 REV TM 49R21 TM	62	119	39	/	50.57	0.0	1.7	4.0
136 4990.RC	61	118	41	/	51.13	0.3	1.3	6.7
11 MorsSoy RT 4914N	61	121	45	1.0	50.25	1.7	0.3	5.7
165 P4606RR	61	118	41	2.5	50.73	2.7	2.3	5.3
30 HBK R4924	61	119	42	1.5	49.77	0.0	0.0	5.0
41 HALO 4:94 LL	61	116	27	/	50.50	0.3	0.3	5.3
62 HBK RY4920	60	117	39	3.0	49.83	0.0	0.7	5.3
18 Terral TV46R19	60	116	43	2.0	50.70	0.0	0.3	6.3
12 MorSoy RTS 4955N	60	118	43	3.0	50.70	0.7	0.7	6.3
140 Armor ARX 47-R33	60	115	36	1.5	51.07	0.3	2.0	5.7
26 Morsoy Xtra 51X10	60	117	31	/	50.27	1.0	1.3	6.3
82 Asgrow AG4605	60	116	36	/	50.77	0.3	1.7	6.7
160 Dyna-Gro 35RY47	59	115	40	3.0	51.00	1.3	1.3	6.0
195 REV TM 49R10 TM	58	113	41	3.0	50.67	0.7	1.3	6.7
198 REV TM 48R21 TM	56	120	41	1.0	50.63	0.3	1.0	5.7
76 Croplan 4998	56	119	42	2.0	49.40	0.0	0.0	5.7
LSD (P=.10)	9.4	30.0	7.0	1.3	0.8	1.4	2.2	1.8
Standard Deviation	7.0	22.0	5.0	0.9	0.6	1.1	1.6	1.3
CV	10.6	19.0	12.0	48.7	1.1	166.4	143.3	20.6
Grand Mean	65.6	114.0	39.9	1.9	50.7	0.6	1.1	6.3

- a) Yield is expressed in bushels per acre
b) Maturity = Number of days to reach physiological maturity (R8 growth stage)
c) Plant height in inches at R8 growth stage
d) Lodging = Rated on a scale of 1-5, where 1 = no lodging and 5 = all plants are down
e) Test weight = pounds per bushel
f) AB = Anthracnose blight, rated on a scale of 1 to 9 where 1 = no disease symptoms and 9 = all leaves defoliated or showing severe disease symptoms
g) FE = Frogeye leaf spot, rated on a scale of 1 to 9, where 1 = no disease symptoms and 9 = all leaves defoliated or showing severe disease symptoms
h) CB = Cercospora blight, rated on a scale of 1-9, where 1 = no disease symptoms and 9 = 100% defoliation and all plants are dead

Table 9. Performance of Maturity Group V Soybean Varieties at the Rice Research Station in 2010.

Entry No.	Entry Name	Yield ^a	2009/2010 Avg ^a	Maturity ^b	Test Weight ^c	CB ^d 7-Sep
180	P5218RR	73	58	127	52.53	7
24	Terral TV55R20	72	70	122	53.37	8
25	Terral TV59R16	71	71	129	52.60	7
190	P5960LL	71	/	126	52.47	8
188	P5160LL	70	/	121	53.30	8
191	P5330RR	70	/	120	53.00	7
78	Croplan 5419	70	/	127	52.93	7
23	Terral TV55R15	70	72	124	53.03	6
128	Delta King DKX 1539	69	/	119	53.63	7
	3 S51-T8 Brand	69	/	125	51.77	7
185	P5210RY	68	/	118	52.33	8
37	MorSoy RT 5688N	67	70	129	51.87	6
189	P5460LL	67	/	119	52.75	8
59	Asgrow AG5606	67	56	126	50.77	8
158	Dyna-Gro 35F55	67	70	125	52.90	7
70	USG 7582nRR	67	58	130	52.87	6
88	Pioneer 95Y01	66	49	123	52.53	8
183	P5706RR	66	59	128	52.40	6
	6 Delta Grow 5555RR	66	65	124	53.07	7
179	P5115RR	66	53	128	52.10	5
181	P5622RR	65	60	133	51.93	6
148	Delta King GP-533	65	62	123	53.10	7
22	Terral TV54R28	65	54	121	53.10	7
46	HBK R5226	65	56	126	52.47	7
149	Delta King DK 5363	64	/	127	53.10	7
182	P5650RR	64	62	131	52.40	6
	40 Delta Grow 5275RR2	64	/	121	52.67	8
33	MorSoy RT 5168	64	54	125	52.73	7
42	HALO 5:65 LL	63	/	127	52.00	7
36	MorSoy RT 5429	63	/	125	53.03	7
206	AGS 597 RR	63	/	129	52.37	7
77	Croplan 5007	63	55	119	52.93	9
	5 Delta Grow 5280RR	62	51	130	52.63	6
199	REV TM 57R21 TM	62	/	123	51.00	8
60	Asgrow AG5831	62	/	121	52.03	7
47	HBK R5525	62	53	126	52.83	6
209	REV TM 54R10	62	56	123	53.57	8
57	Asgrow AG5503	62	55	134	51.53	5
186	P5310RY	62	/	121	52.97	8
	65 HBK RY5820	61	/	121	52.60	8
68	Delta Grow 5970RR	61	61	131	52.17	7
129	Delta King DKX 1540	60	/	123	53.13	7
45	HBK R5529	60	/	127	52.27	7
99	Jake	60	/	123	51.33	8
202	REV TM 56R21 TM	60	/	122	52.40	8
81	Croplan 5222	60	51	118	52.67	9
146	Delta King GP-500	59	55	116	53.03	9
79	Croplan 5663	59	62	122	52.70	8
205	AGS 554 RR	59	/	130	52.17	7
	38 Morsoy Xtra 52X10	58	/	118	53.30	8
157	Dyna-Gro 33X55	58	56	125	52.70	7
98	S06-4649 RR	58	/	123	52.50	8
58	Asgrow AG5531	58	/	116	52.67	9
151	Delta Grow 5461LL	58	/	120	51.73	7
35	MorSoy RT 5388N	57	54	119	52.83	9
56	Asgrow AG5431	57	/	122	53.10	7
123	Delta King DKX 1533	57	/	116	52.43	9
131	Armor ARX 1552	57	/	125	52.80	7
91	Pioneer 95Y40	57	51	127	52.33	7
124	Delta King DKX 1534	57	/	115	52.23	9
137	AGS 557 RC	56	52	126	52.83	7
126	Delta King DKX 1537	56	/	117	53.03	9
156	Dyna-Gro 33B52	56	48	118	52.77	8
63	HBK RY5220	56	/	117	52.03	9
	4 S57-K3 Brand	56	/	128	51.67	6
187	P5610RY	56	/	124	52.47	8
66	S56-G6 Brand	56	/	127	52.53	7

103 Osage	56	/	122	52.77	7
64 HBK RY5520	55	/	124	52.93	8
80 Croplan 5892	54	59	130	51.87	6
102 Ozark	54	/	120	52.40	8
109 S05-11482	54	/	117	52.53	9
208 AGS 606 RR	54	/	130	52.17	5
39 MX R2 520	54	/	117	52.97	9
207 AGS 568 RR	54	/	125	52.70	6
93 Pioneer 95Y70	54	/	124	52.90	7
34 Morsoy Xtra 54X10	54	/	126	52.90	7
127 Delta King DKX 1538	53	/	117	52.43	9
97 S05-11268	53	/	121	52.70	8
43 HALO 5:25 LL	53	/	128	53.30	7
105 USG 75T18	53	/	116	52.77	9
161 Dyna-Gro 37RY52	53	/	120	52.40	8
125 Armor ARX 1535	53	/	117	52.40	8
90 Pioneer 95Y31	53	/	120	52.70	8
201 REV TM 54R21 TM	53	/	118	51.90	8
130 Armor ARX 1551	52	/	124	52.87	7
94 Pioneer 95M82	52	/	125	52.33	6
92 Pioneer 95M50	50	/	123	52.07	8
14 Delta Grow 5300 RR	49	46	120	53.03	8
89 Pioneer 95Y20	49	/	121	51.90	8
184 P5110RY	49	/	117	51.63	8
147 Armor 53-Z5	46	41	124	52.30	8
110 S06-3053 RR	46	/	120	52.80	7
159 Dyna-Gro 35P53	45	/	122	53.00	7
122 Armor ARX 1531	44	/	118	51.67	8
55 Asgrow AG5331	40	/	119	52.47	8
48 HBK R7028	25	/	139	/	3
LSD (P=.10)	9.1	-	3.0	1.0	1.1
Standard Deviation	6.7	-	2.2	0.7	0.8
CV	11.4	-	1.8	1.4	11.0
Grand Mean	58.9	-	123.2	52.0	7.4

- a) Yield is expressed in bushels per acre
b) Maturity = Number of days to reach physiological maturity (R8 growth stage)
c) Test weight = pounds per bushel
d) CB = Cercospora blight, rated on a scale of 1-9, where 1 = no disease symptoms and 9 = 100% defoliation and all plants are dead

Red River Research Station
Maturity Group III and Early IV
Agronomic and Cultural Practices

Maturity Group:	MG III and MG Early IV		
Location:	Red River Research Station, Bossier City, LA		
Irrigated (yes or no):	No		
Irrigation Type:	N/A		
Tillage System:	Fall-Stale		
Soil pH:	7		
Organic Matter (%):	<2%		
Soil Texture:	Moreland silty clay loam		
Row Spacing (inches):	40		
Row/Plot Length (feet):	20		
Planting Date:	5/3/2010		
Harvest Date:	10-Sep		
Seeding Rate (sd/A):	130,000		
Fertilizer Applied 1:	0-30-60, fall-applied		
Soil Applied Insecticide:	Temick	Rate: 5 lbs/ac	Date: 5/3/2010
Foliar Insecticide 1:	Orthene	Rate: 1 lbs/ac	Date: 31-May
Foliar Insecticide 2:	Orthene	Rate: 1 lbs/ac	Date: 15-Jun
Foliar Insecticide 3:	Larvin	Rate: 16 oz/ac	Date: 15-Jun
Preplant Herb:	Treflan	Rate: 1.5 pt/ac	Date: 26-Apr
Pre Emerge Herb 1:	Dual II Magnum	Rate: 1.4 pt/ac	Date: 4-May
Post Dir 1:	Ultra Blazer	Rate: 1.5 pt/ac	Date: 10-Jun
Trial Comments (General Observations and Growing Conditions):	Conditions were very dry at planting. Uneven emergence due to soil transition across field. Stinkbug pressure was relatively low all season.		

Red River Research Station
Maturity Late IV
Agronomic and Cultural Practices

Maturity Group:	MG Early IV				
Location:	Red River Research Station, Bossier City, LA				
Irrigated (yes or no):	No				
Irrigation Type:	N/A				
Tillage System:	Fall-Stage				
Soil pH:	7				
Organic Matter (%):	<2%				
Soil Texture:	Moreland silty clay loam				
Row Spacing (inches):	40				
Row/Plot Length (feet):	20				
Planting Date:	5/3/2010				
Harvest Date:	23-Sep				
Seeding Rate (sd/A):	130,000				
Fertilizer Applied 1:	0-30-60, fall-applied				
Soil Applied Insecticide:	Temick	Rate:	5 lbs/ac	Date:	3-May
Foliar Insecticide 1:	Orthene	Rate:	1 lbs/ac	Date:	31-May
Foliar Insecticide 2:	Orthene	Rate:	1 lbs/ac	Date:	15-Jun
Foliar Insecticide 3:	Larvin	Rate:	16 oz/ac	Date:	15-Jun
Preplant Herb:	Treflan	Rate:	1.5 pt/ac	Date:	26-Apr
Pre Emerge Herb 1:	Dual II Magnum	Rate:	1.4 pt/ac	Date:	4-May
Post Dir 1:	Ultra Blazer	Rate:	1.5 pt/ac	Date:	10-Jun
Trial Comments (General Observations and Growing Conditions):	Conditions were very dry at planting. Uneven emergence due to soil transition across field. Stinkbug pressure was relatively low all season.				

Red River Research Station
Maturity V
Agronomic and Cultural Practices

Maturity Group:	MG V			
Location:	Red River Research Station, Bossier City, LA			
Irrigated (yes or no):	No			
Irrigation Type:	N/A			
Tillage System:	Fall-Stale			
Soil pH:	7			
Organic Matter (%):	<2%			
Soil Texture:	Moreland silty clay loam			
Row Spacing (inches):	40			
Row/Plot Length (feet):	20			
Planting Date:	6/9/2010			
Harvest Date:	10/18/2010			
Seeding Rate (sd/A):	130,000			
Fertilizer Applied 1:				
Soil Applied Insecticide:	Temick	Rate: 5 lbs/ac	Date: 9-Jun	
Foliar Insecticide 1:	Orthene	Rate: 1 lbs/ac	Date: 9-Jul	
Foliar Insecticide 2:	Orthene	Rate: 1 lbs/ac	Date: 3-Aug	
Foliar Insecticide 3:	Larvin	Rate: 16 oz/ac	Date: 3-Aug	
Preplant Herb:	Treflan	Rate: 1.5 pt/ac	Date: 28-May	
Pre Emerge Herb 1:	Dual II Magnum	Rate: 1.4 pt/ac	Date: 9-Jun	
Post Dir 1:	Ultra Blazer	Rate: 1.5 pt/ac	Date: 17-Aug	
Trial Comments (General Observations and Growing Conditions):	Conditions were very dry at planting. Uneven emergence due to soil transition across field. Stinkbug pressure was relatively low all season.			

Table 10. Performance of Maturity Group III and Early IV Soybean Varieties at the Red River Research Station in 2010.

Entry No.	Entry Name	Yield ^a	Maturity ^b	Plant Height ^c	Lodging ^d	Seed Quality ^e	CB ^f 18-Aug
142	Armor 42-M1	43	122	34	1	2.0	1.0
52	Asgrow EXP944R2	43	121	33	1	2.0	1.5
1	S44-D5 Brand	42	118	33	1	1.8	1.0
152	Dyna-Gro 36C44	42	120	30	1	2.0	2.5
164	P4209RY	42	124	31	1	1.8	1.5
83	Pioneer 93Y92	41	117	33	1	2.0	3.5
8	Delta Grow 4470RR	41	120	30	1	2.0	2.0
204	Pioneer 94Y40	41	118	33	1	2.0	1.5
139	Delta King DKR 4440	40	129	43	1	2.3	2.0
163	P4206RR	38	119	32	1	2.0	2.5
197	REVTM 44R22 TM	38	117	33	1	2.0	2.0
84	Pioneer 94Y20	37	117	35	1	2.0	3.0
95	S07-5049	36	117	34	1	2.0	1.5
73	Croplan 4455	36	117	37	1	2.0	1.5
203	Asgrow EXP943R2	35	119	34	1	2.0	1.5
72	Croplan 4417	34	117	38	1	2.0	3.5
71	Croplan 3967	32	120	34	1	2.0	3.0
LSD (P=.10)		4.4	4.7	3.9	-	0.2	1.6
Standard Deviation		3.7	2.7	2.2	-	0.2	0.9
CV		9.5	2.2	6.6	-	10.2	44.6
Grand Mean		38.7	119.3	33.7	1.0	2.0	2.1

a) Yield is expressed in bushels per acre

b) Maturity = Number of days to reach physiological maturity (R8 growth stage)

c) Plant height in inches at R8 growth stage

d) Lodging = Rated on a scale of 1-5, where 1 = no lodging and 5 = all plants completely lodged

e) Seed quality = Rated on a scale of 1 to 5, where 1 = outstanding seed quality and 5 = very poor seed quality

f) CB = Cercospora blight, rated on a scale of 1-9, where 1 = no disease symptoms and 9 = 100% defoliation and all plants are dead

Table 11. Performance of Maturity IV Soybean Varieties at the Red River Research Station in 2010.

Entry No.	Entry Name	Yield ^a	Maturity ^b	Plant Height ^c	Lodging ^d	Seed Quality ^e	% Green Stem ^f	Shatter Rating ^g	CB ^h 18-Aug
194	REV TM 48R10TM	54	127	36	1.0	2.0	5	5.0	2.0
111	Morsoy Xtra 46X29	53	135	34	1.0	2.0	10	0.0	1.5
167	P4710RY	53	136	31	1.0	1.8	/	1.3	1.0
10	MorSoy RTS 4824	51	138	40	1.5	1.8	/	1.3	1.0
53	Asgrow AG4730	50	128	36	1.0	1.8	/	3.8	2.0
209	Armor ARX 1483	50	132	34	1.0	1.5	5	2.5	1.5
85	Pioneer 94Y70	49	131	40	1.0	1.5	/	3.8	3.0
11	MorsSoy RT 4914N	49	138	43	2.0	2.0	5	0.0	1.5
101	UA 4805	49	135	23	1.0	1.5	/	1.3	3.0
29	HBK R4729	49	136	32	1.5	1.7	5	0.0	1.0
166	P4908RR	49	141	42	2.0	2.0	5	0.0	2.0
30	HBK R4924	48	138	45	2.0	1.8	/	2.5	1.0
200	REV TM 48R22 TM	48	121	37	1.5	1.8	/	5.0	2.0
172	P4928LL	47	134	45	1.5	2.0	/	2.5	1.0
196	REV TM 49R22 TM	46	130	40	1.0	1.8	5	2.5	2.5
51	Asgrow EXP946R2	46	122	36	1.0	1.3	/	6.3	2.5
69	USG 74F96	46	141	42	1.5	2.0	5	1.3	1.5
168	P4510RY	45	128	35	1.0	1.8	5	3.8	2.0
134	495.RC	45	133	37	2.0	2.0	/	5.0	1.0
154	Dyna Gro 33G48	44	135	37	1.5	1.8	/	3.8	2.0
16	S47-R3 Brand	44	135	42	1.5	2.0	/	2.5	2.0
140	Armor ARX 47-R33	44	128	35	1.5	2.0	/	6.3	2.0
143	Armor 47-F8	44	135	33	1.0	2.0	/	3.8	2.0
41	HALO 4:94 LL	43	137	40	1.0	2.0	/	1.3	1.0
82	Asgrow AG4605	43	133	29	1.0	2.0	/	5.0	2.0
141	Delta King DKR 4744	43	133	34	1.0	2.0	5	1.3	2.0
9	Delta Grow 4975RR	43	136	38	1.5	2.3	7.5	2.5	1.5
170	P4906RR	43	136	40	1.5	2.3	10	6.3	1.0
49	Asgrow EXP948R2	43	124	35	1.0	2.0	/	5.0	1.0
198	REV TM 48R21 TM	43	137	36	1.5	2.0	5	0.0	1.5
32	HBK R4829	42	133	37	1.5	1.3	5	5.0	2.0
7	Delta Grow 4880RR	42	136	34	1.0	2.0	12.5	6.3	2.0
26	Morsoy Xtra 51X10	42	140	24	1.0	2.0	5	0.0	2.5
174	P4949RR	42	139	46	1.0	1.8	10	1.3	2.0
195	REV TM 49R10 TM	42	133	48	2.0	1.3	10	3.8	2.0
112	Morsoy Xtra 48X00	42	129	32	1.0	2.0	/	5.0	2.5
13	Delta Grow 4970RR	41	133	42	2.0	1.8	/	5.0	1.5
153	Dyna-Gro 37P49	41	137	39	1.0	2.3	10	2.5	2.0
193	REV TM 49R21 TM	41	142	49	1.5	1.8	7.5	0.0	1.0
106	S06-3095 RR	41	134	33	1.0	2.0	/	2.5	2.0
160	Dyna-Gro 35RY47	41	126	38	1.0	1.3	/	5.0	1.5
165	P4606RR	41	136	39	1.0	2.0	/	2.5	2.5
21	Terral TV49R19	41	140	45	1.0	2.0	/	1.3	1.0
54	Asgrow AG4630	41	124	33	1.0	1.8	/	0.0	1.5
75	Croplan 4877	41	136	40	1.0	2.0	12.5	6.3	1.5
171	P4807RR	41	137	40	1.5	2.0	/	2.5	2.0
18	Terral TV46R19	40	128	41	1.0	2.3	/	2.5	1.5
175	P4610RY	40	132	33	1.0	1.8	/	2.5	1.0
15	Delta Grow 4770 RR	40	123	35	1.0	2.0	/	7.5	2.0
118	Armor ARX 1477	40	133	36	1.0	2.0	5	3.8	2.0
100	UA 4910	39	134	35	1.0	2.0	/	0.0	2.0
121	Armor ARX 1478	39	134	35	2.0	2.0	/	5.0	1.5
133	478.RCS	39	134	38	1.0	2.0	/	2.5	2.0
136	4990.RC	39	129	36	1.0	2.0	/	1.3	2.0
210	Armor ARX 1484	39	129	31	1.0	1.5	/	3.8	2.0
108	S07-5117	39	126	37	1.5	1.8	/	5.0	2.5
162	Channel 4851R Brand	39	132	33	1.0	2.0	5	5.0	1.5
12	MorSoy RTS 4955N	39	135	43	1.5	1.8	/	5.0	2.0
74	Croplan 4539	39	123	42	2.0	1.8	/	3.8	1.5
104	USG 74T98	39	137	25	1.0	1.8	/	1.3	2.0
17	S49-A5 Brand	38	125	46	1.5	2.3	/	2.5	1.0

96 S07-5151	38	122	41	1.0	2.0	/	6.3	2.0
132 457.RCP	38	129	40	1.5	2.0	30	3.8	1.5
44 HALO 4:65 LL	37	125	37	1.0	1.8	5	7.5	2.0
27 Morsoy Xtra 49X10	37	133	36	1.0	2.0	/	3.8	1.5
62 HBK RY4920	37	129	36	1.0	1.8	/	5.0	1.5
144 Armor 47-G10	37	140	44	2.0	2.0	5	3.8	2.0
177 P4750RR	37	132	37	1.0	1.3	/	5.0	1.0
192 REV TM 47R22 TM	37	132	39	1.0	1.8	/	3.8	2.0
87 Pioneer 94Y92	37	131	42	2.0	2.0	5	6.3	2.5
120 Delta King DKX 1492	37	131	39	1.0	2.0	/	3.8	2.0
155 Dyna-Gro 36Y48	37	129	40	1.0	1.8	/	3.8	1.5
116 Delta King DKX 1473	37	128	37	1.0	2.0	10	3.8	1.5
169 P4960LL	37	126	38	1.0	2.0	/	5.0	1.5
176 P4920RY	37	130	37	1.0	2.0	/	2.5	1.0
119 Delta King DKX 1491	36	131	36	1.0	1.8	/	3.8	1.0
2 S49-H7 Brand	36	137	39	1.0	2.0	5	2.5	1.5
138 458.RCS	36	126	31	1.0	2.0	5	5.0	3.0
86 Pioneer 94Y80	35	126	42	1.0	2.0	/	8.8	3.5
31 HBK R4527	35	127	44	2.0	1.5	/	5.0	1.0
135 499.RC	34	137	46	2.0	1.8	/	1.3	1.5
19 Terral TV47R18	34	136	41	1.5	2.5	/	2.5	2.0
20 Terral TV49R17	33	129	45	1.0	2.0	5	6.3	1.5
117 Delta King DKX 1474	33	128	37	1.0	2.0	/	7.5	2.5
150 Delta Grow 4861LL	32	129	41	1.0	2.0	10	8.3	1.5
173 P4810RY	32	122	30	1.0	2.0	5	8.8	1.5
113 Armor ARX 1471	31	122	29	1.0	1.8	/	8.8	3.0
145 Delta King DK 4968	31	130	40	1.0	1.8	/	2.5	2.0
107 S07-15722 RR	29	127	43	1.0	2.0	/	7.5	2.0
178 P4860LL	29	125	41	1.0	2.0	5	10.0	2.0
76 Croplan 4998	/	144	47	1.5	2.0	25	2.5	1.0

LSD (P=.10)	8.3	6.6	4.6	0.5	0.4	14.6	3.3	1.0
Standard Deviation	7.2	3.9	2.7	0.3	0.3	11.3	2.9	0.6
CV	17.6	3.0	7.3	24.9	17.9	143.4	76.8	33.1
Grand Mean	40.7	131.6	37.6	1.2	1.9	7.9	3.7	1.8

- a) Yield is expressed in bushels per acre
- b) Maturity = Number of days to reach physiological maturity (R8 growth stage)
- c) Plant height in inches at R8 growth stage
- d) Lodging = Rated on a scale of 1-5, where 1 = no lodging and 5 = all plants completely lodged
- e) Seed Quality = Rated on a scale of 1 to 5, where 1 = outstanding seed quality and 5 = very poor seed quality
- f) %Green = Percentage of stems remaining green at harvest maturity
- g) Shattering % = The percentage of pods that shattered at harvest maturity
- h) CB = Cercospora blight, rated on a scale of 1-9, where 1 = no disease symptoms and 9 = 100% defoliation and all plants are dead

Table 12. Performance of Maturity V Soybean Varieties at the Red River Research Station in 2010.

Entry No.	Entry Name	2009/2010			Plant Height ^c	Lodging ^d	Seed Quality ^e	Shatter Rating ^f	CB ^g 14-Sep	CB ^g 22-Sep
		Yield ^a	Avg ^a	Maturity ^b						
4	S57-K3 Brand	54	65	124	34	1.0	1	3.3	2.5	4.0
48	HBK R7028	52	/	125	39	1.0	1	3.3	2.5	3.0
70	USG 7582nRR	52	69	125	38	1.5	1	5.0	2.5	4.5
45	HBK R5529	51	/	121	32	1.0	1	3.3	2.0	5.0
159	Dyna-Gro 35P53	51	/	119	37	1.5	1	5.0	2.0	5.5
182	P5650RR	51	63	125	40	2.0	1	1.7	2.5	5.0
65	HBK RY5820	50	/	123	36	1.0	1	3.3	2.5	5.5
68	Delta Grow 5970RR	50	59	124	41	1.5	1	5.0	2.0	4.0
78	Croplan 5419	50	/	120	40	1.5	1	5.0	1.5	5.0
57	Asgrow AG5503	50	63	125	41	1.0	1	3.3	2.0	3.0
131	Armor ARX 1552	49	/	119	42	1.5	1	3.3	1.5	3.0
187	P5610RY	49	/	116	35	1.0	1	5.0	2.5	5.0
66	S56-G6 Brand	49	/	121	31	1.0	1	5.0	2.0	3.5
25	Terral TV59R16	49	64	122	33	1.0	1	5.0	2.5	5.0
158	Dyna-Gro 35F55	49	64	121	43	1.0	1	3.3	2.0	5.0
6	Delta Grow 5555RR	48	63	120	41	1.0	1	10.0	1.5	5.0
34	Morsoy Xtra 54X10	48	/	117	47	1.0	1	2.5	1.5	3.5
24	Terral TV55R20	48	63	119	42	1.5	1	5.0	3.0	5.5
79	Croplan 5663	48	60	119	33	2.0	1	5.0	2.5	5.0
109	S05-11482	48	/	114	33	1.5	1	5.0	4.0	/
23	Terral TV55R15	47	66	121	44	1.5	1	5.0	2.0	4.5
60	Asgrow AG5831	47	/	120	32	1.0	1	1.7	2.0	5.0
130	Armor ARX 1551	47	/	118	44	1.0	1	3.3	2.0	3.5
35	MorSoy RT 5388N	47	59	120	37	1.0	1	6.7	2.5	5.5
47	HBK R5525	47	56	120	37	1.0	1	3.3	2.0	3.0
205	AGS 554 RR	47	/	123	36	1.5	1	5.0	2.5	4.0
59	Asgrow AG5606	47	65	122	38	1.5	1	5.0	1.5	5.0
37	MorSoy RT 5688N	46	66	119	37	1.0	1	8.3	2.0	4.5
40	Delta Grow 5275RR2	45	/	116	36	1.0	1	5.0	3.0	6.0
199	REV TM 57R21 TM	45	/	117	46	1.5	1	5.0	2.5	6.0
56	Asgrow AG5431	44	/	116	40	1.0	1	5.0	2.0	6.0
80	Croplan 5892	44	61	126	45	2.0	1	5.0	3.0	4.5
149	Delta King DK 5363	44	/	124	40	2.0	1	5.0	2.0	4.5
181	P5622RR	44	58	122	39	1.5	1	6.7	2.5	5.0
206	AGS 597 RR	44	/	122	36	1.5	1	5.0	2.5	5.0
125	Armor ARX 1535	44	/	115	35	1.0	1	8.3	3.0	6.0
105	USG 75T18	43	/	114	32	1.0	1	6.7	3.0	7.5
148	Delta King GP-533	43	58	120	36	1.0	1	6.7	2.0	5.0
93	Pioneer 95Y70	42	/	123	47	1.0	1	3.3	2.0	4.0
146	Delta King GP-500	42	56	114	36	1.0	1	6.7	4.0	7.0
202	REV TM 56R21 TM	42	/	115	39	1.0	1	5.0	3.0	7.0
208	AGS 606 RR	42	/	123	37	2.0	1	8.3	2.0	4.0
99	Jake	42	/	119	34	1.0	1	8.3	2.5	6.0
161	Dyna-Gro 37RY52	42	/	117	32	1.0	1	6.7	3.0	6.0
185	P5210RY	42	/	116	34	1.0	1	6.7	2.5	6.5
209	REV TM 54R10	42	59	117	43	1.5	1	5.0	2.5	5.5
129	Delta King DKX 1540	41	/	119	47	2.0	1	6.7	1.5	5.0
147	Armor 53-Z5	41	54	114	28	1.0	1	5.0	3.0	7.0
97	S05-11268	41	/	115	29	1.0	1	8.3	4.0	7.0
122	Armor ARX 1531	41	/	119	30	1.0	1	6.7	3.5	6.0
186	P5310RY	41	/	117	48	2.0	1	5.0	1.5	6.5
123	Delta King DKX 1533	40	/	115	36	1.0	1	5.0	4.0	7.0
190	P5960LL	40	/	118	39	1.0	1	5.0	3.5	6.0
42	HALO 5:65 LL	40	/	119	36	1.0	1	10.0	3.5	6.0
183	P5706RR	39	57	124	43	1.0	1	5.0	1.5	3.0
91	Pioneer 95Y40	38	62	117	30	1.0	1	6.7	2.5	6.0
92	Pioneer 95M50	38	/	115	38	1.0	1	6.7	3.0	6.0
184	P5110RY	38	/	119	29	1.0	1	3.3	3.5	6.0
63	HBK RY5220	38	/	115	42	1.0	1	8.3	3.0	6.5

64 HBK RY5520	38	/	116	38	1.0	1	10.0	2.5	3.0
102 Ozark	37	/	114	37	1.0	1	6.7	3.0	5.5
179 P5115RR	37	51	117	45	1.0	1	15.0	2.0	4.5
207 AGS 568 RR	37	/	117	37	1.0	1	11.7	2.5	4.5
5 Delta Grow 5280RR	37	55	121	37	2.0	1	6.7	3.0	6.0
137 AGS 557 RC	37	57	120	37	1.0	1	7.5	2.5	5.5
38 Morsoy Xtra 52X10	37	/	113	35	1.0	1	7.5	4.0	7.5
94 Pioneer 95M82	37	/	119	40	1.0	1	5.0	2.5	5.0
124 Delta King DKX 1534	36	/	113	38	1.0	1	8.3	3.5	7.0
3 S51-T8 Brand	36	/	117	40	1.0	1	5.0	2.0	3.0
33 MorSoy RT 5168	35	48	117	43	1.5	1	10.0	2.5	7.0
36 MorSoy RT 5429	35	/	118	39	1.0	1	10.0	2.0	5.5
128 Delta King DKX 1539	35	/	115	46	2.0	1	8.3	2.5	5.0
90 Pioneer 95Y31	34	/	113	41	1.5	1	11.7	5.0	/
43 HALO 5:25 LL	34	/	116	26	1.0	1	5.0	3.0	6.5
180 P5218RR	34	54	121	33	3.0	1	6.7	3.0	6.5
126 Delta King DKX 1537	33	/	112	35	1.0	1	20.0	4.0	/
39 MX R2 520	33	/	113	34	1.0	1	11.7	4.0	7.0
127 Delta King DKX 1538	33	/	113	33	1.0	1	10.0	4.5	7.0
157 Dyna-Gro 33X55	33	54	117	36	1.0	1	10.0	3.0	5.5
151 Delta Grow 5461LL	33	/	116	37	1.0	1	11.7	2.5	6.0
189 P5460LL	33	/	122	39	1.5	1	10.0	2.5	6.0
156 Dyna-Gro 33B52	32	52	114	35	1.5	1	10.0	3.5	7.0
201 REV TM 54R21 TM	32	/	116	34	1.0	1	5.0	3.0	5.5
46 HBK R5226	32	57	122	33	3.5	1	8.3	2.5	5.5
98 S06-4649 RR	31	/	119	43	2.0	1	8.3	2.5	6.0
14 Delta Grow 5300 RR	31	56	118	38	1.0	1	11.7	2.5	6.0
103 Osage	31	/	115	31	1.0	1	5.0	3.0	6.5
77 Croplan 5007	31	52	119	36	1.0	1	10.0	2.5	6.5
22 Terral TV54R28	30	51	115	35	1.5	1	6.7	3.0	6.0
88 Pioneer 95Y01	30	48	116	39	2.0	1	18.3	4.0	6.0
188 P5160LL	29	/	116	27	1.0	1	18.3	3.5	7.0
58 Asgrow AG5531	28	/	113	30	1.0	1	10.0	4.0	7.0
55 Asgrow AG5331	27	/	114	29	1.0	1	13.3	4.0	7.0
191 P5330RR	27	/	114	37	1.0	1	16.7	2.0	7.0
81 Croplan 5222	26	49	116	37	1.5	1	23.3	4.0	7.0
89 Pioneer 95Y20	26	/	117	36	1.0	1	12.5	3.0	6.5
110 S06-3053 RR	10	/	113	42	1.5	1	70.0	4.0	/

LSD (P=.10)	8.3	-	3.9	3.7	0.6	-	5.9	1.0	1.3
Standard Deviation	6.1	-	2.4	2.2	0.4	-	4.4	0.6	0.8
CV	15.3	-	2.0	6.0	29.0	-	55.0	21.2	13.8
Grand Mean	40.1	-	117.9	37.0	1.3	1.0	8.0	2.7	5.5

- a) Yield is expressed in bushels per acre
b) Maturity = Number of days to reach physiological maturity (R8 growth stage)
c) Plant height in inches at R8 growth stage
d) Lodging = Rated on a scale of 1-5, where 1 = no lodging and 5 = all plants completely lodged
e) Seed Quality = Rated on a scale of 1 to 5, where 1 = outstanding seed quality and 5 = very poor seed quality
f) Shattering % = The percentage of pods that shattered at harvest maturity
g) CB = Cercospora blight, rated on a scale of 1-9, where 1 = no disease symptoms and 9 = 100% defoliation and all plants are dead

Iberia Research Station
Maturity Group III and Early IV
Agronomic and Cultural Practices

Maturity Group:	MG III and MG Early IV		
Location:	Iberia Research Station, Jeanerette, LA		
Irrigated (yes or no):	No		
Irrigation Type:	N/A		
Tillage System:			
Soil pH:			
Organic Matter (%):	<2%		
Soil Texture:	Baldwin Silty clay		
Row Spacing (inches):	72		
Row/Plot Length (feet):	30		
Planting Date:	4/28/2010		
Harvest Date:	28-Sep		
Seeding Rate (sd/A):	130,000		
Preplant Herb:		Rate:	Date:
Pre Emerge Herb 1:	Dual 8 E	Rate: 1.5 pt/ac	Date: 29-Apr
Pre Emerge Herb 2:	Reflex	Rate: 1.5 pt/ac	Date: 29-Apr
Post Herb 1:	Scepter	Rate: 2.8 oz/ac	Date: 15-May
Post Herb 2:	Basagran	Rate: 1.5 pt/ac	Date: 28-May
Trial Comments (General Observations and Growing Conditions):			

Iberia Research Station
Maturity Late IV
Agronomic and Cultural Practices

Maturity Group:	MG Early IV		
Location:	Iberia Research Station, Alexandria, LA		
Irrigated (yes or no):	No		
Irrigation Type:	N/A		
Tillage System:			
Soil pH:			
Organic Matter (%):	<2%		
Soil Texture:	Baldwin Silty clay		
Row Spacing (inches):	72		
Row/Plot Length (feet):	30		
Planting Date:	4/28/2010		
Harvest Date:	29-Sep		
Seeding Rate (sd/A):	130,000		
Preplant Herb:		Rate:	Date:
Pre Emerge Herb 1:	Dual 8 E	Rate: 1.5 pt/ac	Date: 29-Apr
Pre Emerge Herb 2:	Reflex	Rate: 1.5 pt/ac	Date: 29-Apr
Post Herb 1:	Scepter	Rate: 2.8 oz/ac	Date: 15-May
Post Herb 2:	Basagran	Rate: 1.5 pt/ac	Date: 28-May
Trial Comments (General Observations and Growing Conditions):			

Table 13. Performance of Maturity Group III and Early IV Soybean Varieties at the Iberia Research Station in 2010.

Entry No.	Entry Name	Yield ^a	Maturity ^b	Plant Height ^c	Lodging ^d
139	Delta King DKR 4440	45	132	43	1.8
142	Armor 42-M1	42	131	34	1.0
1	S44-D5 Brand	41	133	36	1.0
164	P4209RY	40	134	36	1.3
152	Dyna-Gro 36C44	40	134	32	1.0
197	REVTM 44R22 TM	39	125	35	2.0
73	Croplan 4455	39	129	39	1.3
203	Asgrow EXP943R2	37	123	36	1.0
84	Pioneer 94Y20	36	127	38	1.8
204	Pioneer 94Y40	36	132	33	1.3
95	S07-5049	35	126	37	1.5
72	Croplan 4417	34	131	39	1.3
163	P4206RR	34	130	35	1.3
8	Delta Grow 4470RR	33	135	33	1.0
52	Asgrow EXP944R2	31	130	34	2.3
83	Pioneer 93Y92	31	126	32	1.0
71	Croplan 3967	18	130	35	1.0
LSD (P=.10)		9.2	2.6	2.1	0.6
Standard Deviation		7.7	2.2	1.7	0.5
CV		21.6	1.7	4.9	37.8
Grand Mean		35.7	129.8	35.6	1.3

- a) Yield is expressed in bushels per acre
- b) Maturity = Number of days to reach physiological maturity (R8 growth stage)
- c) Plant height in inches at R8 growth stage
- d) Lodging = Rated on a scale of 1-5, where 1 = no lodging and 5 = all plants completely lodged

Table 14. Performance of Maturity IV Soybean Varieties at the Iberia Research Station in 2010.

Entry No.	Entry Name	Yield ^a	Maturity ^b	Plant Height ^c	Lodging ^d
154	Dyna Gro 33G48	49	140	38	2.3
32	HBK R4829	47	139	39	1.8
134	495.RC	46	141	43	2.3
144	Armor 47-G10	46	140	43	1.5
101	UA 4805	45	135	25	1.0
11	MorsSoy RT 4914N	45	143	41	2.5
49	Asgrow EXP948R2	44	138	42	1.3
166	P4908RR	44	137	42	1.5
86	Pioneer 94Y80	44	138	40	2.5
119	Delta King DKX 1491	43	140	38	1.0
20	Terral TV49R17	43	141	46	1.0
82	Asgrow AG4605	42	138	36	1.0
120	Delta King DKX 1492	42	140	39	1.3
176	P4920RY	42	140	39	1.0
135	499.RC	42	145	44	2.3
7	Delta Grow 4880RR	42	140	38	2.3
10	MorSoy RTS 4824	42	140	39	1.3
12	MorSoy RTS 4955N	42	141	43	2.0
172	P4928LL	42	139	39	1.0
41	HALO 4:94 LL	42	143	37	1.0
27	Morsoy Xtra 49X10	42	141	38	1.5
26	Morsoy Xtra 51X10	42	140	27	1.0
16	S47-R3 Brand	42	139	43	1.8
136	4990.RC	41	142	41	1.5
74	Croplan 4539	41	132	46	2.0
196	REV TM 49R22 TM	41	140	38	2.0
140	Armor ARX 47-R33	41	138	38	1.3
30	HBK R4924	41	142	44	2.3
210	Armor ARX 1484	40	137	36	1.0
13	Delta Grow 4970RR	40	142	42	2.3
111	Morsoy Xtra 46X29	40	139	39	1.0
18	Terral TV46R19	40	137	43	1.3
209	Armor ARX 1483	40	138	38	1.3
75	Croplan 4877	40	138	44	1.5
106	S06-3095 RR	40	138	38	1.5
54	Asgrow AG4630	40	140	39	1.3
143	Armor 47-F8	39	140	36	1.0
31	HBK R4527	39	134	44	1.8
165	P4606RR	39	140	37	1.0
169	P4960LL	39	138	38	1.0
107	S07-15722 RR	39	136	49	2.0
141	Delta King DKR 4744	39	139	38	1.0
17	S49-A5 Brand	39	139	47	1.0
21	Terral TV49R19	39	141	40	1.0
69	USG 74F96	39	142	42	1.8
155	Dyna-Gro 36Y48	38	141	41	1.3
153	Dyna-Gro 37P49	38	139	40	1.0
62	HBK RY4920	38	141	39	1.8
177	P4750RR	38	141	38	1.8
171	P4807RR	38	142	43	1.5
133	478.RCS	38	142	38	1.0
174	P4949RR	38	142	46	2.0
100	UA 4910	38	140	36	1.0
118	Armor ARX 1477	37	136	37	1.8
121	Armor ARX 1478	37	137	36	1.0
162	Channel 4851R Brand	37	138	38	1.5
9	Delta Grow 4975RR	37	140	42	1.3
175	P4610RY	37	138	38	1.3
87	Pioneer 94Y92	37	139	40	2.0
195	REV TM 49R10 TM	37	136	44	2.8
170	P4906RR	37	140	40	1.3
85	Pioneer 94Y70	37	139	41	1.8
198	REV TM 48R21 TM	37	138	40	1.5

160 Dyna-Gro 35RY47	36	129	41	1.0
44 HALO 4:65 LL	36	142	39	1.0
19 Terral TV47R18	36	138	42	1.8
200 REV TM 48R22 TM	36	137	39	2.3
108 S07-5117	35	140	37	1.5
53 Asgrow AG4730	35	134	38	1.3
104 USG 74T98	34	138	28	1.0
194 REV TM 48R10TM	34	138	36	2.0
51 Asgrow EXP946R2	34	137	38	1.0
167 P4710RY	34	138	39	1.0
173 P4810RY	34	135	37	1.8
192 REV TM 47R22 TM	34	141	41	1.8
2 S49-H7 Brand	34	142	42	1.5
112 Morsoy Xtra 48X00	33	138	37	1.0
168 P4510RY	33	138	37	1.0
193 REV TM 49R21 TM	33	140	46	1.5
132 457.RCP	32	135	45	2.3
15 Delta Grow 4770 RR	32	141	40	2.0
145 Delta King DK 4968	31	140	40	1.8
117 Delta King DKX 1474	31	127	41	1.0
29 HBK R4729	29	133	35	1.0
116 Delta King DKX 1473	27	125	40	1.0
138 458.RCS	27	142	36	1.0
113 Armor ARX 1471	25	133	34	1.0
96 S07-5151	24	141	41	2.3
150 Delta Grow 4861LL	18	140	41	1.0
178 P4860LL	14	143	41	1.0
76 Croplan 4998	\	146	45	2.3

LSD (P=.10)	7.2	2.4	2.5	0.5
Standard Deviation	5.3	2.1	2.2	0.4
CV	14.1	1.5	5.5	28.6
Grand Mean	37.6	138.6	39.7	1.5

- a) Yield is expressed in bushels per acre
- b) Maturity = Number of days to reach physiological maturity (R8 growth stage)
- c) Plant height in inches at R8 growth stage
- d) Lodging = Rated on a scale of 1-5, where 1 = no lodging and 5 = all plants completely lodged

Northeast Research Station
Maturity Group III and Early IV
Agronomic and Cultural Practices

Maturity Group:	MG III and MG Early IV			
Location:	Northeast Research Station, St. Joseph			
Irrigated (yes or no):	Yes (10-June and 30-June)			
Irrigation Type:	Furrow			
Soil pH:	5.42 - 6.26			
Soil Texture:	silty clay			
Row Spacing (inches):	40			
Row/Plot Length (feet):	19.4			
Planting Date:	1-Jun			
Harvest Date:	23-Sep			
Foliar Insecticide 1:	Orthene	Rate:	0.5 lb/A	Date: 3-Aug
Foliar Insecticide 2:	Discipline	Rate:	5 oz/A	Date: 3-Aug
Foliar Insecticide 3:	Orthene	Rate:	0.5 lb/A	Date: 25-Aug
Foliar Insecticide 4:	Steward	Rate:	10 oz/A	Date: 25-Aug
Pre Emerge Herb 1:	Valor	Rate:	1.5 oz/A	Date: 29-May
Pre Emerge Herb 2:	Dual	Rate:	24 oz/A	Date: 29-May
Post Herb 1:	Assure	Rate:	16 oz/A	Date: 15-Jul
Post Herb 2:	Blazer	Rate:	1.5 pt/A	Date: 23-Jul
Post Herb 3:	Basagran	Rate:	1.5 pt/A	Date: 23-Jul

Trial Comments (General Observations and Growing Conditions):

The test was established later than normal (June 1) due to the drought conditions experienced during the year. Furrow irrigation was used to supplement rainfall after the stand was established. Overall, plant stands were excellent throughout the field. Only conventional herbicides were used to control weeds. Major insects of concern were soybean loopers, which were effectively controlled with insecticides. Cercospora leaf blight was the main disease present and visual ratings were collected. Good drying and harvest conditions aided timely harvest, but all varieties matured rapidly from the R7 to R8 growth stage. This rapid change might have obscured differences in maturity that would normally be expected. Seed quality was generally excellent.

Northeast Research Station
Maturity Group IV
Agronomic and Cultural Practices

Maturity Group:	MG IV				
Location:	Northeast Research Station, St. Joseph				
Irrigated (yes or no):	Yes (10-June and 30-June)				
Irrigation Type:	Furrow				
Soil pH:	5.42 - 6.26				
Soil Texture:	silty clay				
Row Spacing (inches):	40				
Row/Plot Length (feet):	19.4				
Planting Date:	27-May				
Harvest Date:	28-Sep				
Foliar Insecticide 1:	Orthene	Rate:	0.5 lb/A	Date:	3-Aug
Foliar Insecticide 2:	Discipline	Rate:	5 oz/A	Date:	3-Aug
Foliar Insecticide 3:	Orthene	Rate:	0.5 lb/A	Date:	25-Aug
Foliar Insecticide 4:	Steward	Rate:	10 oz/A	Date:	25-Aug
Pre Emerge Herb 1:	Valor	Rate:	1.5 oz/A	Date:	29-May
Pre Emerge Herb 2:	Dual	Rate:	24 oz/A	Date:	29-May
Post Herb 1:	Assure	Rate:	16 oz/A	Date:	15-Jul
Post Herb 2:	Blazer	Rate:	1.5 pt/A	Date:	23-Jul
Post Herb 3:	Basagran	Rate:	1.5 pt/A	Date:	23-Jul

Trial Comments (General Observations and Growing Conditions):

The test was established later than normal (June 1) due to the drought conditions experienced during the year. Furrow irrigation was used to supplement rainfall after the stand was established. Overall, plant stands were excellent throughout the field. Only conventional herbicides were used to control weeds. Major insects of concern were soybean loopers, which were effectively controlled with insecticides. Cercospora leaf blight was the main disease present and visual ratings were collected. Good drying and harvest conditions aided timely harvest, but all varieties matured rapidly from the R7 to R8 growth stage. This rapid change might have obscured differences in maturity that would normally be expected. Seed quality was generally excellent.

Northeast Research Station

Maturity Group V

Agronomic and Cultural Practices

Maturity Group:	MG V				
Location:	Northeast Research Station, St. Joseph				
Irrigated (yes or no):	Yes (10-June and 30-June)				
Irrigation Type:	Furrow				
Soil pH:	5.42 - 6.26				
Soil Texture:	silty clay				
Row Spacing (inches):	40				
Row/Plot Length (feet):	19.4				
Planting Date:	28-May				
Harvest Date:	6-Oct				
Foliar Insecticide 1:	Orthene	Rate:	0.5 lb/A	Date:	3-Aug
Foliar Insecticide 2:	Discipline	Rate:	5 oz/A	Date:	3-Aug
Foliar Insecticide 3:	Orthene	Rate:	0.5 lb/A	Date:	25-Aug
Foliar Insecticide 4:	Steward	Rate:	10 oz/A	Date:	25-Aug
Pre Emerge Herb 1:	Valor	Rate:	1.5 oz/A	Date:	29-May
Pre Emerge Herb 2:	Dual	Rate:	24 oz/A	Date:	29-May
Post Herb 1:	Assure	Rate:	16 oz/A	Date:	15-Jul
Post Herb 2:	Blazer	Rate:	1.5 pt/A	Date:	23-Jul
Post Herb 3:	Basagran	Rate:	1.5 pt/A	Date:	23-Jul

Trial Comments (General Observations and Growing Conditions):	<p>The test was established later than normal (June 1) due to the drought conditions experienced during the year. Furrow irrigation was used to supplement rainfall after the stand was established. Overall, plant stands were excellent throughout the field. Only conventional herbicides were used to control weeds. Major insects of concern were soybean loopers, which were effectively controlled with insecticides. Cercospora leaf blight was the main disease present and visual ratings were collected. Good drying and harvest conditions aided timely harvest, but all varieties matured rapidly from the R7 to R8 growth stage. This rapid change might have obscured differences in maturity that would normally be expected. Seed quality was generally excellent.</p>
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Table 15. Performance of Maturity III and Early IV Soybean Varieties at the Northeast Research Station in 2010.

Entry No.	Entry Name	2009/2010		Plant Height ^c	Lodging ^d	
		Yield ^a	Avg ^a			Maturity ^b
142	Armor 42-M1	52	50	102	1	
204	Pioneer 94Y40	52	/	102	1	
84	Pioneer 94Y20	51	/	102	1	
52	Asgrow EXP944R2	50	/	102	1	
139	Delta King DKR 4440	49	/	112	1	
1	S44-D5 Brand	49	54	102	1	
197	REVTM 44R22 TM	48	/	102	1	
152	Dyna-Gro 36C44	47	45	102	1	
163	P4206RR	47	44	102	1	
8	Delta Grow 4470RR	47	46	102	1	
95	S07-5049	47	/	102	1	
72	Croplan 4417	46	/	102	1	
203	Asgrow EXP943R2	46	/	102	1	
164	P4209RY	46	/	112	1	
73	Croplan 4455	45	/	102	1	
71	Croplan 3967	44	/	102	1	
83	Pioneer 93Y92	42	/	102	1	
LSD (P=.10)		4.8	-	0.0	3.3	-
Standard Deviation		4.1	-	0.0	1.9	-
CV		8.6	-	0.0	5.4	-
Grand Mean		47.4	-	103.2	35.4	1.0

- a) Yield is expressed in bushels per acre
- b) Maturity = Number of days to reach physiological maturity (R8 growth stage)
- c) Plant height in inches at R8 growth stage
- d) Lodging = Rated on a scale of 1-5, where 1 = no lodging and 5 = all plants completely lodged

Table 16. Performance of Maturity IV Soybean Varieties at the Northeast Research Station in 2010.

Entry No.	Entry Name	Yield ^a	2009/2010 Avg ^a	Maturity ^b	Plant Height ^c	Lodging ^d	CB ^e
106	S06-3095 RR	55	/	113	41	1.0	5.0
16	S47-R3 Brand	55	/	113	40	1.0	3.5
133	478.RCS	54	55	119	37	1.0	3.5
82	Asgrow AG4605	54	49	113	36	1.0	4.0
86	Pioneer 94Y80	53	56	113	44	1.3	5.0
171	P4807RR	53	50	113	42	1.3	4.0
9	Delta Grow 4975RR	52	51	113	42	1.0	4.5
162	Channel 4851R Brand	52	/	116	38	1.0	3.0
194	REV TM 48R10TM	52	/	113	43	1.0	3.5
13	Delta Grow 4970RR	52	54	118	43	1.3	3.5
30	HBK R4924	52	57	116	46	1.0	2.5
170	P4906RR	52	51	113	45	1.0	4.0
62	HBK RY4920	51	/	113	40	1.5	4.0
2	S49-H7 Brand	51	53	113	38	1.3	4.5
177	P4750RR	51	/	113	41	1.0	3.0
32	HBK R4829	50	/	117	42	1.3	4.0
76	Croplan 4998	50	55	116	39	1.3	4.0
154	Dyna Gro 33G48	50	/	124	45	1.3	2.5
172	P4928LL	50	/	113	39	1.0	4.5
10	MorSoy RTS 4824	50	54	113	38	1.0	3.5
15	Delta Grow 4770 RR	50	48	113	43	1.5	4.0
167	P4710RY	50	/	116	40	1.0	3.0
26	Morsoy Xtra 51X10	50	/	113	45	1.0	4.0
119	Delta King DKX 1491	50	/	116	45	1.5	4.0
134	495.RC	50	/	113	39	1.5	3.5
155	Dyna-Gro 36Y48	50	52	119	32	1.0	4.5
136	4990.RC	50	51	113	42	1.3	2.5
169	P4960LL	50	/	118	39	1.3	3.0
111	Morsoy Xtra 46X29	49	/	113	38	1.0	3.5
135	499.RC	49	/	113	39	1.0	4.5
175	P4610RY	49	/	124	43	1.3	3.0
209	Armor ARX 1483	49	/	113	39	1.0	4.0
7	Delta Grow 4880RR	49	/	113	44	1.0	4.5
96	S07-5151	49	/	113	43	1.3	3.0
143	Armor 47-F8	49	52	113	55	1.0	4.0
166	P4908RR	49	53	113	43	1.5	4.0
196	REV TM 49R22 TM	49	/	116	37	1.0	4.0
17	S49-A5 Brand	49	/	113	37	1.0	3.5
140	Armor ARX 47-R33	49	/	113	47	1.0	4.5
21	Terral TV49R19	49	54	113	41	1.3	4.0
75	Croplan 4877	49	48	113	42	1.0	4.0
51	Asgrow EXP946R2	48	/	113	45	1.5	5.0
132	457.RCP	48	/	113	40	1.0	4.0
112	Morsoy Xtra 48X00	48	/	113	40	1.0	4.5
120	Delta King DKX 1492	48	/	113	38	1.0	3.5
168	P4510RY	48	/	113	36	1.3	4.0
173	P4810RY	48	/	113	38	1.0	3.0
41	HALO 4:94 LL	47	/	113	43	1.0	4.5
44	HALO 4:65 LL	47	/	113	41	1.0	4.0
144	Armor 47-G10	47	/	116	39	1.0	3.5
176	P4920RY	47	/	116	48	1.0	3.0
193	REV TM 49R21 TM	47	50	113	40	1.5	3.5
20	Terral TV49R17	47	49	113	48	1.3	4.0
74	Croplan 4539	47	/	115	50	1.3	4.5
19	Terral TV47R18	47	49	113	40	1.0	4.0
117	Delta King DKX 1474	47	/	113	46	1.0	3.5
18	Terral TV46R19	46	43	113	47	1.0	5.5
85	Pioneer 94Y70	46	47	113	43	1.0	5.5
178	P4860LL	46	/	113	46	1.3	4.0
138	458.RCS	46	/	113	36	1.0	4.5
27	Morsoy Xtra 49X10	46	/	113	37	1.0	5.5
31	HBK R4527	46	50	113	44	1.3	3.5
113	Armor ARX 1471	46	/	113	38	1.3	3.5
49	Asgrow EXP948R2	46	/	117	42	1.0	3.0
69	USG 74F96	46	53	113	44	1.0	4.0
101	UA 4805	45	/	113	39	1.0	3.5
141	Delta King DKR 4744	45	/	113	37	1.0	3.5
198	REV TM 48R21 TM	45	/	113	26	1.0	4.0
11	MorSoy RT 4914N	45	48	113	42	1.3	4.0

108 S07-5117	45	/	113	38	1.0	3.5
121 Armor ARX 1478	45	/	113	50	1.3	3.5
160 Dyna-Gro 35RY47	45	/	113	42	1.3	3.5
195 REV TM 49R10 TM	45	49	113	38	1.3	3.0
210 Armor ARX 1484	45	/	113	37	1.3	5.0
107 S07-15722 RR	45	/	113	52	1.0	4.0
12 MorSoy RTS 4955N	44	50	113	39	1.0	4.0
53 Asgrow AG4730	44	/	113	38	1.0	4.0
116 Delta King DKX 1473	44	/	116	41	1.5	3.5
29 HBK R4729	44	47	113	39	1.0	4.0
100 UA 4910	44	/	116	41	1.0	3.5
153 Dyna-Gro 37P49	44	47	113	37	1.0	3.5
165 P4606RR	44	48	113	36	1.3	3.5
118 Armor ARX 1477	44	/	113	40	1.3	5.0
200 REV TM 48R22 TM	44	/	113	37	1.3	4.0
145 Delta King DK 4968	44	51	113	43	1.5	3.5
174 P4949RR	44	47	113	43	1.3	4.0
192 REV TM 47R22 TM	44	/	113	41	1.0	4.0
54 Asgrow AG4630	43	/	113	37	1.5	3.0
104 USG 74T98	42	/	113	31	1.0	3.5
150 Delta Grow 4861LL	40	/	113	47	1.0	4.0
87 Pioneer 94Y92	39	/	113	40	1.3	4.5

LSD (P=.10)	5.8	-	2.7	4.8	0.4	1.2
Standard Deviation	5.0	-	1.6	2.9	0.2	0.7
CV	10.4	-	1.4	7.1	18.5	18.2
Grand Mean	47.6	-	113.9	40.7	1.1	3.9

- a) Yield is expressed in bushels per acre
b) Maturity = Number of days to reach physiological maturity (R8 growth stage)
c) Plant height in inches at R8 growth stage
d) Lodging = Rated on a scale of 1-5, where 1 = no lodging and 5 = all plants completely lodged
e) CB = Cercospora blight, rated on a scale of 1-9, where 1 = no disease symptoms and 9 = 100% defoliation and all plants are dead

Table 17. Performance of Maturity V Soybean Varieties at the Northeast Research Station in 2010.

Entry No.	Entry Name	2009/2010		Maturity ^b	Plant Height ^c	Lodging ^d	CB ^e
		Yield ^a	Avg ^a				
109	S05-11482	59	/	120	45	2.3	5.5
78	Croplan 5419	56	/	120	42	1.8	3.0
159	Dyna-Gro 35P53	55	/	120	35	1.0	4.0
37	MorSoy RT 5688N	54	54	122	45	1.0	3.0
22	Terral TV54R28	54	49	120	34	1.0	3.0
23	Terral TV55R15	54	55	120	35	1.5	3.5
24	Terral TV55R20	54	55	120	31	1.0	3.5
199	REV TM 57R21 TM	53	/	124	33	1.0	4.0
25	Terral TV59R16	53	56	123	34	1.0	3.5
191	P5330RR	52	/	126	36	1.0	4.5
6	Delta Grow 5555RR	52	55	120	31	1.5	3.0
45	HBK R5529	52	/	120	32	1.0	3.0
33	MorSoy RT 5168	51	43	120	38	1.5	4.5
103	Osage	51	/	120	33	1.0	4.0
59	Asgrow AG5606	51	51	120	39	1.5	4.0
206	AGS 597 RR	51	/	123	34	1.0	3.5
97	S05-11268	51	/	122	36	1.0	5.5
202	REV TM 56R21 TM	51	/	123	46	1.5	6.0
98	S06-4649 RR	50	/	120	38	1.0	5.0
158	Dyna-Gro 35F55	50	/	120	39	1.0	3.5
190	P5960LL	49	/	122	35	1.0	3.5
36	MorSoy RT 5429	49	/	120	39	1.0	4.5
124	Delta King DKX 1534	49	/	123	36	1.0	6.0
180	P5218RR	49	47	120	44	1.0	3.5
205	AGS 554 RR	49	/	120	33	1.0	3.0
91	Pioneer 95Y40	48	47	120	38	1.0	4.5
148	Delta King GP-533	48	46	120	38	1.0	5.5
151	Delta Grow 5461LL	48	/	126	39	1.3	4.0
189	P5460LL	48	/	120	36	1.0	4.5
46	HBK R5226	48	48	123	36	1.0	3.0
149	Delta King DK 5363	48	/	120	43	1.0	3.5
65	HBK RY5820	48	/	127	45	1.0	4.5
40	Delta Grow 5275RR2	48	/	120	37	1.0	5.5
43	HALO 5:25 LL	48	/	120	46	1.0	4.0
63	HBK RY5220	48	/	120	38	1.0	6.0
88	Pioneer 95Y01	48	43	120	34	1.0	6.0
4	S57-K3 Brand	47	/	126	36	1.0	3.0
42	HALO 5:65 LL	47	/	120	38	1.0	3.5
123	Delta King DKX 1533	47	/	122	35	1.0	6.0
126	Delta King DKX 1537	47	/	120	36	1.0	6.0
14	Delta Grow 5300 RR	47	48	120	34	1.0	5.0
56	Asgrow AG5431	47	/	120	37	1.0	4.0
77	Croplan 5007	47	47	120	30	1.5	6.0
157	Dyna-Gro 33X55	47	/	123	39	1.0	3.5
35	MorSoy RT 5388N	47	47	120	39	1.0	4.5
60	Asgrow AG5831	47	/	123	35	1.0	3.5
99	Jake	47	/	120	30	1.0	4.5
146	Delta King GP-500	47	55	120	35	1.0	6.0
79	Croplan 5663	46	47	126	36	1.0	4.0
80	Croplan 5892	46	46	120	40	1.0	2.5
188	P5160LL	46	/	120	47	2.3	6.0
209	REV TM 54R10	46	46	120	34	1.0	5.0
90	Pioneer 95Y31	46	/	120	30	1.0	6.0
81	Croplan 5222	46	46	120	38	1.5	5.0
34	Morsoy Xtra 54X10	46	/	120	36	1.0	2.5
38	Morsoy Xtra 52X10	46	/	123	36	1.0	6.5
94	Pioneer 95M82	46	/	120	39	1.5	3.5
102	Ozark	46	/	120	30	1.0	5.5
184	P5110RY	46	/	120	31	1.0	5.5
55	Asgrow AG5331	45	/	123	39	1.0	4.5
93	Pioneer 95Y70	45	/	120	40	1.0	3.5
147	Armor 53-Z5	45	39	126	39	1.3	4.5
186	P5310RY	45	/	120	33	1.0	5.0
201	REV TM 54R21 TM	45	/	123	33	1.0	6.0
57	Asgrow AG5503	45	44	120	41	1.0	3.0
105	USG 75T18	45	/	134	39	1.0	6.5

5 Delta Grow 5280RR	45	47	120	42	1.0	3.0
125 Armor ARX 1535	45	/	120	41	1.0	5.0
130 Armor ARX 1551	45	/	123	35	1.0	4.0
182 P5650RR	45	47	120	42	1.0	3.0
3 S51-T8 Brand	44	/	120	47	1.0	4.0
64 HBK RY5520	44	/	120	33	1.5	3.5
181 P5622RR	44	48	123	39	1.8	4.0
92 Pioneer 95M50	44	/	120	34	1.0	5.0
110 S06-3053 RR	44	/	120	36	1.3	5.0
156 Dyna-Gro 33B52	44	/	120	37	1.0	5.5
39 MX R2 520	44	/	120	33	1.0	6.0
122 Armor ARX 1531	44	/	122	33	1.0	6.0
70 USG 7582nRR	44	48	120	47	2.3	4.5
185 P5210RY	44	/	120	33	1.0	5.0
58 Asgrow AG5531	43	/	120	32	1.0	5.5
66 S56-G6 Brand	43	/	126	39	1.0	4.0
131 Armor ARX 1552	43	/	123	37	1.3	2.5
208 AGS 606 RR	43	/	120	36	1.0	3.0
47 HBK R5525	43	43	120	36	1.0	4.0
129 Delta King DKX 1540	43	/	120	37	1.0	3.5
187 P5610RY	43	/	120	46	1.0	5.0
161 Dyna-Gro 37RY52	42	/	123	37	1.0	5.5
179 P5115RR	42	38	123	36	1.0	2.5
183 P5706RR	42	47	122	46	1.0	3.0
68 Delta Grow 5970RR	41	46	120	35	1.0	2.5
127 Delta King DKX 1538	41	/	120	39	1.0	6.5
137 AGS 557 RC	41	45	123	38	1.0	5.0
89 Pioneer 95Y20	41	/	120	33	1.0	4.5
207 AGS 568 RR	40	/	123	36	1.0	3.5
128 Delta King DKX 1539	39	/	120	31	1.0	3.5
48 HBK R7028	37	/	120	35	1.0	2.5
LSD (P=.10)	4.8	-	3.1	3.2	0.4	1.1
Standard Deviation	4.2	-	1.9	1.9	0.3	0.6
CV	8.9	-	1.5	5.2	22.6	14.7
Grand Mean	46.7	-	121.2	36.9	1.1	4.4

- a) Yield is expressed in bushels per acre
b) Maturity = Number of days to reach physiological maturity (R8 growth stage)
c) Plant height in inches at R8 growth stage
d) Lodging = Rated on a scale of 1-5, where 1 = no lodging and 5 = all plants completely lodged
e) CB = Cercospora blight, rated on a scale of 1-9, where 1 = no disease symptoms and 9 = 100% defoliation and all plants are dead

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