



# SOYBEAN *Update*

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## 2008 Soybean Performance Results for Early Planted Roundup Ready<sup>®</sup> Production Systems in Arkansas

Each year numerous soybean varieties are commercially available to growers in Arkansas. However, only limited numbers have been tested in Arkansas at April plantings. Yield performance in early (April) plantings varies according to location, adaptability to soils, relative maturity, lodging, shattering potential, disease and nematode resistance, as well as herbicide and chloride sensitivity. This update contains information derived from the 2007 and 2008 University of Arkansas Division of Agriculture soybean variety testing program and is provided as an aid in variety selection for the Early Soybean Production System (ESPS). Typically, ESPS plantings consist of planting very early maturing varieties (generally MG III or IV) in April.

Since proper variety selection involves knowledge of yield potential, maturity, disease reaction, herbicide sensitivity, etc., these and many other important characteristics are listed in **Tables 6, 7, and 10**. Varieties are considered adapted to Arkansas conditions based primarily on their

yield performance across the different geographical regions of the state. The location, soil description, and cultural information for each of the 2008 soybean early-planted performance trials are found in **Table 1**.

Soybean variety performance may vary from year to year, and two-year yield averages are better predictors of performance than data from a single year. Superior performance across several locations suggests that a variety has wide adaptability, thus multi-year and multi-location yields are particularly useful for making variety selection decisions.

**SOYVA**, a University of Arkansas, Division of Agriculture computerized variety selection program, can assist in making these field-specific variety selection decisions. Presently, **SOYVA** sorts through hundreds of adapted soybean varieties in Maturity Groups (MG) III – V, and makes variety recommendations based on responses to specific conditions described by the user. Soybean producers are encouraged to use

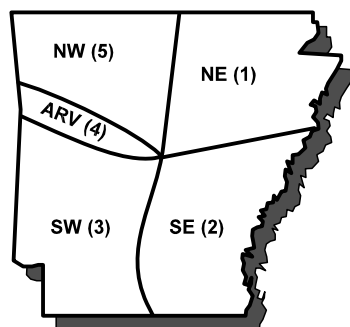
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this publication and **SOYVA** when selecting varieties for the different production systems. Contact your county Extension agent for details concerning **SOYVA**. Additional information is available at the Cooperative Extension Service web site (<http://www.aragriculture.org/soybean.htm>): click on the **Computer Programs** link.

### ADAPTED SOYBEAN VARIETIES FOR EARLY SOYBEAN PRODUCTION

Generally, varieties within MG IV are the best adapted for these early (April) plantings in Arkansas; however, there are situations where varieties from MG III and V may perform well. Recent research indicates that indeterminate MG IV varieties can produce acceptable yields when planted early (April) and will normally mature in August through mid-September. Varieties of differing relative maturity (even within the same MG) are recommended in an attempt to spread out the risk of shattering due to adverse weather conditions or mechanical problems at harvest. In Arkansas, the following designations apply to varieties representing the various MGs: III – very early maturity; IV – early maturity; and V – mid-season maturity.



### ABOUT THIS PUBLICATION

**Table 1** consists of cultural information that pertains to the 2008 University of Arkansas Soybean Performance Trials. **Tables 2, 3 & 8** contain varietal information for both 2007 and 2008. **Tables 6, 7, & 10** contain the many varietal characteristics of those varieties designated as being adapted to the Arkansas soybean production environment and are grouped by MG. These adapted varieties are included in **SOYVA** and field specific variety recommendations can be obtained by utilizing this program.

**Users of this publication are encouraged to review the “Key Code” page for further explanation regarding varietal ratings to disease, herbicide sensitivity and other agronomic considerations.**

**Figure 1. Area of Adaptation for Soybean Maturity Groups for All Production Systems**

- Northeast Arkansas (1):** Groups III, IV, or V
- Southeast Arkansas (2):** Groups III, IV, or V
- Southwest Arkansas (3):** Groups III, IV, or V
- Arkansas River Valley (4):** Groups III, IV, or V
- Northwest Arkansas (5):** Groups IV or V

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<b>Table 1. Location, Soil Description, and Cultural Information of the Arkansas Performance Trials - 2008</b>								
Location	Soil Description	Planting Date	Row Width	Harvest Date by MG				Previous Crop
				III	Early IV	Late IV	Early V	
Keiser – Irrigated	Sharkey clay	5/7	Twin 10”	9/26	9/29	10/13	10/14	Soybean
Marianna – Irrigated	Calloway silt loam	4/20	30”	9/17	9/19	9/26	9/29	Soybean
Rohwer – Irrigated	Sharkey/Desha silt loam	4/22	19”	9/12	9/12	9/15	9/26	Grain Sorghum
Poinsett Co. – Irrigated	Henry silt loam	5/5	15”	10/20	10/21	10/22	10/22	Rice

**The KEY CODE for all the following tables is found on the back page.  
Refer to the KEY CODE for a description of the abbreviated varietal characteristics.**

**HOW TO MAKE YIELD COMPARISONS USING THE FOLLOWING TABLES:** The LSD (0.05), Least Significant Difference, represents the minimum yield difference required between two varieties within the same location before concluding that their yields are truly different (while assuming a 5% risk that the yield differences are due to random chance.) Use only the LSD value listed below each column (location-maturity group) to compare variety yield averages among varieties within that column.

**Note:** an “\*” beside a variety mean there is no statistical difference between that varietal mean and the highest yielding varietal mean. An “\*\*\*” at the test location utilizing the appropriate LSD (0.05) value.

## 2008 Early Planted Roundup Ready Soybean Update

**Table 2. Yields (bu./A) of Early Planted, Maturity Group III Roundup Ready Soybean Cultivars at All Arkansas Locations, 2008.**

Brand/Variety	Keiser Irrigated	2-Year Average	Marianna Irrigated	2-Year Average	Rohwer Irrigated	2-Year Average	Poinsett Co. Irrigated	2-Year Average <sup>1</sup>	Silt Loam <sup>1</sup> Average	All Location <sup>2</sup> Average
.....bu./A.....										
<b>Maturity Group III (RM 3.5 to 3.9)</b>										
Armor 39-K4	77.0*	64.0	80.9	70.7	58.3*	65.5	51.6	64.0	63.6	67.0
ASGROW AG3906	83.5**	70.4	82.0	73.9	62.7**	67.3	55.0	69.7	66.6	70.8
HBK R3824	74.1	68.8	79.4	71.7	61.7*	65.2	75.2**	70.0	72.1	72.6
HBK R3927	77.0*	68.4	96.8**	79.3	57.5*	63.1	63.3	66.2	72.5	73.6
GRAND MEAN	77.2	•	85.9	•	61.0	•	61.9	•	69.6	71.5
LSD (5%)	7.7	•	10.5	•	9.1	•	11.1	•	•	•
CV (%)	6.7	•	8.2	•	10.0	•	12.0	•	•	•

**Table 3. Yields (bu./A) of Early Planted, Maturity Group IV Roundup Ready Soybean Cultivars at All Arkansas Locations, 2008.**

Brand/Variety	Keiser Irrigated	2-Year Average	Marianna Irrigated	2-Year Average	Rohwer Irrigated	2-Year Average	Poinsett Co. Irrigated	2-Year Average <sup>1</sup>	Silt Loam <sup>1</sup> Average	All Location <sup>2</sup> Average
.....bu./A.....										
<b>Maturity Group IV Early (RM 4.0 to 4.6)</b>										
ASGROW AG4405	75.9	73.9	84.8*	74.7	74.6*	68.6	•	•	79.7	78.8
ASGROW DKB46-51	80.6*	73.5	72.4	71.9	70.8	68.4	94.3**	85.9	79.2	79.5
Croplan Genetics RC4417	78.5*	75.5	75.6	71.6	74.4*	74.9	69.5	•	73.2	74.5
Croplan Genetics RC4455	78.6*	68.0	82.1*	76.6	68.9	64.8	84.1	•	78.4	78.4
Delta Grow 4150RR	74.6	68.0	83.3*	71.5	78.7*	71.3	•	•	80.7	79.1
Delta Grow 4460RR	75.6	64.7	82.9*	72.8	68.3	66.3	82.6	73.7	77.9	77.3
Delta Grow 4470RR/STS	74.5	71.9	73.9	73.3	74.9*	74.4	77.6	•	75.5	75.2
Delta Grow 4660RR	69.0	71.5	72.9	64.5	66.1	61.2	72.9	70.1	70.6	70.2
Delta King DK 4667	76.8*	72.0	77.7*	71.3	67.2	59.1	75.4	74.7	73.4	74.3
Deltapine DP 4546RR	74.7	74.6	71.0	63.8	60.2	58.5	76.1	75.5	69.1	70.5
Dyna-Gro 32R46	81.0*	74.7	63.1	65.7	78.7*	72.1	91.4*	•	77.7	78.5
Dyna-Gro 37A44	75.0	66.2	85.8*	77.8	72.9	67.1	86.7*	76.4	81.8	80.1
Dyna-Gro 37F46	85.2**	75.2	71.3	67.0	68.0	62.7	75.3	72.7	71.5	74.9
HBK R4527	76.7*	72.7	68.4	64.5	64.9	63.4	85.2	•	72.8	73.8
MorSoy RT4485N	80.9*	68.6	86.9**	77.6	79.5*	69.4	82.9	78.9	83.1	82.5
MorSoy RTs4556N	78.3*	72.6	74.1	67.4	74.9*	71.8	82.4	•	77.1	77.4
Progeny 4206RR	78.2*	72.0	72.0	73.0	71.9	74.2	72.1	68.2	72.0	73.5
Progeny 4606RR	79.0*	70.9	59.3	63.9	72.2	69.0	86.3	73.8	84.5	78.1
Schillinger 457.RCP	73.8	74.9	73.7	68.7	75.7*	69.7	83.3	•	77.6	76.6
Terral TV44R27	74.9	66.4	81.9*	74.0	66.2	67.4	82.1	71.0	76.7	76.3
USG 74A27	75.0	69.1	80.2*	72.8	80.2**	74.3	69.8	•	76.7	76.3
GRAND MEAN	77.6	•	76.5	•	71.7	•	79.9	•	76.0	76.4
LSD (5%)	8.6	•	9.9	•	6.0	•	7.9	•	•	•
CV (%)	7.9	•	9.3	•	6.0	•	7.0	•	•	•

## 2008 Early Planted Roundup Ready Soybean Update

**Table 3(Continued). Yields (bu./A) of Early Planted, Maturity Group IV Roundup Ready Soybean Cultivars at All Arkansas Locations, 2008.**

Brand/Variety	Keiser Irrigated	2-Year Average	Marianna Irrigated	2-Year Average	Rohwer Irrigated	2-Year Average	Poinsett Co. Irrigated	2-Year Average <sup>1</sup>	Silt Loam <sup>1</sup> Average	All Location <sup>2</sup> Average
.....bu./A.....										
Maturity Group IV Late (RM 4.7 to 4.9)										
ASGROW AG4703	82.4*	74.1	76.2*	66.6	66.9	67.3	99.5*	86.1	80.9	81.3
ASGROW AG4903	81.2*	75.5	73.4*	64.0	70.7	67.2	97.3*	94.3	80.4	80.6
ASGROW DK4866	89.0*	83.9	78.6*	69.1	63.7	63.5	105.0**	96.7	82.4	84.1
Croplan Genetics RC4757	90.3*	78.8	59.0	56.3	75.1*	72.2	99.8*	87.5	78.0	81.0
Croplan Genetics RC4877	90.5*	83.0	72.9*	•	75.7*	71.8	100.4*	95.6	83.0	84.9
Croplan Genetics RC4955	75.1	74.1	71.5*	•	67.3	60.5	92.2	90.6	76.8	76.4
Delta Grow 4770RR	73.4	71.5	67.0	64.4	69.1	65.9	88.0	77.3	74.7	74.4
Delta Grow 4780RR	85.5*	82.4	75.0*	63.4	78.0*	72.5	95.3*	90.6	82.6	83.4
Delta Grow 4970RR	78.6	77.6	75.9*	68.2	64.1	63.6	84.5	81.8	74.5	75.6
Delta Grow 4975RR	84.8*	80.6	72.7*	67.7	64.1	63.6	90.9	89.2	75.9	78.1
Delta King DK 4968	82.4*	75.4	70.0*	•	60.8	64.8	78.6	79.5	69.7	72.9
Deltapine DP 4888RR/S	74.4	71.7	76.5*	64.8	69.7	66.1	93.7*	87.1	80.0	78.6
Dyna-Gro 36Y48	80.0	78.6	72.9*	63.4	63.5	64.5	94.7	88.9	77.0	77.7
Dyna-Gro 37P49	79.8	79.1	81.0**	74.2	64.8	64.5	93.3	89.8	79.7	79.7
Eagle Seed ES XVT675RR	66.8	63.5	56.1	52.6	45.8	49.2	82.3	84.8	61.4	62.8
HBK R4727	82.5*	81.6	74.0*	65.5	78.2**	71.8	97.3*	97.3	83.0	82.9
HBK R4924	77.8	69.4	69.0	•	69.8	69.1	95.1*	90.2	80.3	79.6
MorSoy RT4707N	84.2*	79.1	78.9*	68.4	73.8*	71.0	102.9*	93.1	85.2	85.0
MorSoy RT4914N	77.6	75.1	80.9*	67.1	67.9	69.3	87.3	81.1	78.7	78.4
MorSoy RTs4706N	90.7**	78.1	62.9	64.0	60.9	63.2	91.2	87.0	71.7	76.4
MorSoy RTs4955N	81.5*	77.0	78.0*	71.4	68.6	66.2	88.9	86.2	78.5	79.3
Pioneer 94B73	78.2	75.5	55.2	57.8	70.6	71.7	92.9	82.6	72.9	74.2
Progeny 4706RR	73.5	73.3	76.6*	70.5	67.1	66.9	94.3*	83.1	79.3	77.9
Progeny 4807RR	85.8*	83.3	71.0*	60.6	73.6*	70.5	93.6*	94.2	79.2	80.9
Progeny 4906RR	77.5	77.8	66.6	66.5	71.0	66.6	97.8*	92.5	78.5	78.2
Progeny 4949RR	78.9	74.6	67.4	61.8	66.7	65.1	83.0	78.5	72.4	74.0
Schillinger 495.RC	72.9	76.2	60.9	55.3	63.0	62.2	86.8	85.4	70.2	70.9
Terral TV47R17	76.8	75.5	61.2	56.0	61.4	58.1	93.3	79.7	72.0	73.2
USG 74A91	88.0*	84.1	79.0*	69.9	60.5	61.9	85.7	84.5	75.1	78.3
USG 74F78	78.0	72.0	62.7	56.6	67.0	68.5	87.4	84.2	72.4	73.8
USG 74F96	84.9*	77.1	74.0*	•	62.7	59.9	87.7	83.3	74.8	77.3
GRAND MEAN	80.2	•	70.3	•	67.1	•	91.9	•	76.4	77.4
LSD (5%)	9.5	•	11.3	•	5.7	•	11.4	•	•	•
CV (%)	8.5	•	11.5	•	6.1	•	8.9	•	•	•

## 2008 Early Planted Roundup Ready Soybean Update

**Table 4. Nematode, Disease, and Chloride Sensitivity Ratings for MG III Soybean Cultivars.<sup>3</sup>**

Brand/Variety	Root Knot Nematode	Soybean Cyst Nematode		Frogeye	Stem Canker	Sudden Death Syn.	Aerial Blight	Chloride	
		2	5					2007	2008
Armor 39-K4	7	7	7	5*	1	5*	9	Mixed	Excluder
ASGROW AG3906	7	5	7	3*	1	3*	5	Includer	Includer
HBK R3824	7	7	7	3^	1	3*	7	Includer	Includer
HBK R3927	7	7	1	3^	1	.	9	Excluder	Excluder

**Table 5. Nematode, Disease, and Chloride Sensitivity Ratings for MG IV Soybean Cultivars.<sup>3</sup>**

Brand/Variety	Root Knot Nematode	Soybean Cyst Nematode		Frogeye	Stem Canker	Sudden Death Syn.	Aerial Blight	Chloride	
		2	5					2007	2008
ASGROW AG4405	3	5	5	3*	1	3*	7	Includer	Includer
ASGROW AG4703	7	7	7	7	5	5*	7	Includer	Includer
ASGROW AG4903	7	7	7	7	7	7^	7	Includer	Includer
ASGROW DK4866	7	7	7	5^	9	3*	9	.	Includer
ASGROW DKB46-51	7	7	7	3*	5	5*	9	Includer	Includer
Croplan Genetics RC4417	7	7	7	1^	1	1*	7	Mixed	Includer
Croplan Genetics RC4455	7	7	7	1^	1	1*	7	Includer	Includer
Croplan Genetics RC4757	7	7	7	1^	1	1*	7	Includer	Includer
Croplan Genetics RC4877	7	7	7	1^	5	3*	7	Mixed	Includer
Croplan Genetics RC4955	7	7	5	4^	.	1*	7	Includer	Includer
Delta Grow 4150RR	7	7	7	3*	1	3*	5	Excluder	Mixed
Delta Grow 4460RR	7	7	7	3^	3	3*	7	Includer	Includer
Delta Grow 4470RR/STS	7	7	7	1^	1	5*	7	Includer	Includer
Delta Grow 4660RR	5	7	7	3*	1	3*	9	Includer	Includer
Delta Grow 4770RR	7	7	7	3^	1	3*	7	Includer	Includer
Delta Grow 4780RR	7	7	7	1^	1	3*	9	Excluder	Excluder
Delta Grow 4970RR	7	7	7	3*	1	7	5	Includer	Includer
Delta Grow 4975RR	7	7	7	5	.	3*	3	Includer	Includer
Delta King DK4667	7	7	7	3^	.	3^	9	Includer	Includer
Delta King DK4968	7	7	7	3*	.	7*	7	Mixed	Mixed
Deltapine DP 4546RR	7	7	7	3	1	7	7	Excluder	Excluder
Deltapine DP 4888RR/S	7	7	7	3	1	.	9	Mixed	Includer
Dyna-Gro 32R46	7	7	7	1	1	1*	7	Includer	Includer
Dyna-Gro 36Y48	7	7	7	5^	1	1^	7	.	.
Dyna-Gro 37A44	7	7	7	3^	3	3*	9	Includer	Includer
Dyna-Gro 37F46	5	7	7	3^	1	1*	9	Includer	Includer
Dyna-Gro 37P49	7	7	7	5^	7	1^	7	Includer	Includer
Eagle Seed ES XVT675RR	7	7	7	5^	.	.	9	Includer	Includer
HBK R4527	7	7	7	5^	1	3*	7	Excluder	Excluder
HBK R4727	7	7	7	3*	1	3*	7	Excluder	Excluder
HBK R4924	7	7	5	5	1	3	5	Mixed	Excluder
MorSoy RT4485N	7	5	7	3^	1	3*	5	Includer	Includer
MorSoy RT4707N	7	7	7	3^	1	5*	7	Excluder	Mixed
MorSoy RT4914N	7	7	5	3*	1	5*	9	Includer	Includer
MorSoy RTs4556N	7	7	7	1^	1	3*	5	Includer	Includer

## 2008 Early Planted Roundup Ready Soybean Update

**Table 5(Continued). Nematode, Disease, and Chloride Sensitivity Ratings for MG IV Soybean Cultivars.<sup>3</sup>**

Brand/Variety	Root Knot Nematode	Soybean Cyst Nematode		Frogeye	Stem Canker	Sudden Death Syn.	Aerial Blight	Chloride	
		2	5					2007	2008
MorSoy RTs4706N	7	7	3	1	1	3*	7	Includer	Includer
MorSoy RTs4955N	5	7	5	5^	1	7*	7	Includer	Mixed
Pioneer 94B73	7	7	7	1	1	5*	7	Includer	Includer
Progeny 4206RR	3	7	7	3*	1	6*	5	Includer	Includer
Progeny 4606RR	7	7	7	1^	1	.	3	Includer	Includer
Progeny 4706RR	7	5	7	3^	1	6*	3	Includer	Mixed
Progeny 4807RR	7	7	7	1^	1	.	7	Excluder	Excluder
Progeny 4906RR	7	7	7	5^	7	3*	7	Includer	Includer
Progeny 4949RR	7	7	7	1	1	7	5	Includer	Mixed
Schillinger 457.RCP	7	7	7	3*	1	5*	7	Excluder	Mixed
Schillinger 495.RC	7	7	7	1	1	5*	7	Includer	Includer
Terral TV44R27	7	5	7	3^	1	3*	7	Includer	Includer
Terral TV47R17	7	5	7	1^	5	1*	7	Mixed	Mixed
USG 74A27	7	5	7	3^	1	7*	9	Excluder	Mixed
USG 74A91	7	7	7	5^	1	5*	9	Includer	Includer
USG 74F78	7	7	7	7^	1	3*	5	Includer	Includer
USG 74F96	7	5	7	5^	.	5*	7	Includer	Includer

## 2008 Early Planted Roundup Ready Soybean Update

**Table 6. Agronomic Characteristics for MG III Soybean Cultivars.**

Brand/Variety	Relative Maturity	Sulfonylurea Tolerance (STS)	Avg. Days to Maturity	Lodging Score	Shatter Score	Plant Ht(in)	Flower Color	Pubescence Color	Pod Color	Hilum Color
Armor 39-K4	3.9	No	121	2.8	1.3	36	Purple	Brown	Tan	Black
ASGROW AG3906	3.9	No	124	1.3	1.3	29	Purple	Tawny	Brown	Black
HBK R3824	4.0	No	129	2.0	1.0	32	Purple	Light Tawny	Tan	Black
HBK R3927	3.9	No	130	3.3	1.0	39	Purple	Gray	Tan	Black

**Table 7. Agronomic Characteristics for MG IV Soybean Cultivars.**

Brand/Variety	Relative Maturity	Sulfonylurea Tolerance (STS)	Avg. Days to Maturity	Lodging Score	Shatter Score	Plant Ht(in)	Flower Color	Pubescence Color	Pod Color	Hilum Color
ASGROW AG4405	4.4	No	128	1.0	1.0	34	Purple	Gray	Tan	Imp. Black
ASGROW AG4703	4.7	No	132	1.5	1.0	24	Purple	Light Tawny	Tan	Black
ASGROW AG4903	4.9	Yes	139	1.8	1.3	30	Purple	Tawny	Tan	Black
ASGROW DK4866	4.8	Yes	136	2.8	1.0	30	Purple	Light Tawny	Brown	Black
ASGROW DKB46-51	4.6	No	131	1.8	1.0	32	White	Tawny	Tan	Black
Croplan Genetics RC4417	4.4	No	126	1.8	1.3	37	Purple	Tawny	Brown	Black
Croplan Genetics RC4455	4.4	No	131	2.5	1.3	39	Purple	Light Tawny	Brown	Brown
Croplan Genetics RC4757	4.7	No	134	2.3	1.0	25	White/Purple	Light Tawny	Tan	Black
Croplan Genetics RC4877	4.8	No	134	2.0	1.3	29	Purple	Tawny	Brown	Black
Croplan Genetics RC4955	4.9	No	138	3.0	1.0	33	Purple	Light Tawny	Brown	Black
Delta Grow 4150RR	4.1	No	130	1.3	1.0	35	White	Tawny	Brown	Brown
Delta Grow 4460RR	4.4	No	128	2.5	1.0	42	White/Purple	Light Tawny	Brown	Black
Delta Grow 4470RR/STS	4.5	Yes	131	1.0	1.3	27	Purple	Tawny	Tan	Black
Delta Grow 4660RR	4.6	No	132	3.0	1.0	41	Purple	Light Tawny	Brown	Black
Delta Grow 4770RR	4.7	No	131	2.5	1.5	29	White	Light Tawny	Brown	Black
Delta Grow 4780RR	4.7	No	135	2.3	1.0	30	Purple	Tan	Brown	Black
Delta Grow 4970RR	4.9	No	137	3.5	1.0	32	Purple	Light Tawny	Brown	Black
Delta Grow 4975RR	4.9	No	138	1.5	1.0	29	Purple	Light Tawny	Tan	Black
Delta King DK4667	4.6	No	131	3.5	1.0	42	Purple	Light Tawny	Brown	Black
Delta King DK4968	4.9	No	135	2.8	1.3	30	Purple	Gray	Tan	Imp. Black
Deltapine DP 4546RR	4.5	No	132	2.3	1.0	39	White	Tawny	Tan	Black
Deltapine DP 4888RR/S	4.8	Yes	136	3.3	1.3	32	White	Tawny	Tan	Black
Dyna-Gro 32R46	4.6	No	132	1.0	1.0	32	Purple	Gray	Tan	Black
Dyna-Gro 36Y48	4.8	Yes	139	2.5	1.0	30	Purple	Gray	Tan	Imp. Black
Dyna-Gro 37A44	4.4	No	129	2.3	1.3	37	Purple	Light Tawny	Brown	Brown
Dyna-Gro 37F46	4.6	No	131	3.5	1.0	39	Purple	Light Tawny	Brown	Black
Dyna-Gro 37P49	4.9	No	136	2.8	1.0	28	Purple	Tawny	Tan	Black
Eagle Seed ES XVT675RR	4.9	.	139	3.3	1.0	36	.	.	.	.
HBK R4527	4.4	No	132	2.8	1.0	42	White	Light Tawny	Tan	Black
HBK R4727	4.7	No	135	2.0	1.0	31	Purple	Tawny	Brown	Black
HBK R4924	4.9	No	138	3.3	1.0	31	Purple	Light Tawny	Brown	Black
MorSoy RT4485N	4.4	No	131	2.5	1.0	40	Purple	Light Tawny	Brown	Black
MorSoy RT4707N	4.7	No	135	2.0	1.3	30	Purple	Tawny	Brown	Black
MorSoy RT4914N	4.9	No	138	3.8	1.3	33	Purple	Light Tawny	Brown	Black
MorSoy RTs4556N	4.5	Yes	131	1.0	1.3	33	Purple	Light Tawny	Brown	Black

## 2008 Early Planted Roundup Ready Soybean Update

**Table 7(Continued). Agronomic Characteristics for MG IV Soybean Cultivars.**

Brand/Variety	Relative Maturity	Sulfonylurea Tolerance (STS)	Avg. Days to Maturity	Lodging Score	Shatter Score	Plant Ht(in)	Flower Color	Pubescence Color	Pod Color	Hilum Color
MorSoy RTs4706N	4.7	Yes	133	1.8	1.0	25	Mix	Gray	Tan	Imp. Black
MorSoy RTs4955N	4.9	Yes	139	2.3	1.0	30	Purple	Gray	Tan	Imp. Black
Pioneer 94B73	4.7	No	138	3.0	1.5	29	White	Light Tawny	Tan	Black
Progeny 4206RR	4.2	No	127	1.0	1.5	31	White	Light Tawny	Brown	Black
Progeny 4606RR	4.6	No	132	1.0	1.0	30	Purple	Gray	Tan	Black
Progeny 4706RR	4.7	No	132	2.0	1.0	26	Purple	Tawny	Tan	Black
Progeny 4807RR	4.8	.	134	2.3	1.3	30	.	.	.	.
Progeny 4906RR	4.9	No	138	3.0	1.0	30	Purple	Tawny	Tan	Black
Progeny 4949RR	4.9	No	136	3.0	1.3	32	White	Tawny	Brown	Black
Schillinger 457.RCP	4.5	No	129	2.5	1.0	38	Purple	Tawny	.	Black
Schillinger 495.RC	4.9	No	137	3.5	1.3	31	Purple	Light Tawny	.	Black
Terral TV44R27	4.4	No	131	2.5	1.3	43	Purple	Light Tawny	Brown	Black
Terral TV47R17	4.7	No	143	3.0	1.3	33	Purple	Tawny	Tan	Black
USG 74A27	4.2	No	125	1.0	1.3	29	White	Tawny	Tan	Black
USG 74A91	4.9	No	135	2.3	1.3	32	Purple	Light Tawny	Tan	Black
USG 74F78	4.8	No	137	2.5	1.0	27	Purple	Tawny	Tan	Black
USG 74F96	4.9	No	139	2.3	1.3	32	Purple	Light Tawny	Tan	Black

## 2008 Early Planted Roundup Ready Soybean Update

**Table 8. Yields (bu./A) of Early Planted, Maturity Group V Roundup Ready Soybean Cultivars at All Arkansas Locations, 2008.**

Brand/Variety	Keiser Irrigated	2-Year Average	Marianna Irrigated	2-Year Average	Rohwer Irrigated	2-Year Average	Poinsett Co. Irrigated	2-Year Average <sup>1</sup>	Silt Loam <sup>1</sup> Average	All Location <sup>2</sup> Average
.....bu./A.....										
Maturity Group V (RM 5.0 to 5.3)										
Croplan Genetics RC5007	77.9*	71.6	57.0	56.5	53.6	56.8	82.8*	76.9	64.5	67.8
Croplan Genetics RC5222	69.2	67.5	60.5	61.4	56.2	63.3	82.5*	75.1	66.4	67.1
Delta Grow 5160RR/STS	75.4*	73.0	72.3**	68.0	63.1*	63.5	84.8*	72.9	73.4	73.9
Dyna-Gro 32A53	73.2*	76.9	52.2	56.5	41.7	51.0	79.4*	74.7	57.8	61.6
Dyna-Gro 33B52	75.2*	76.3	67.9*	61.3	46.5	50.1	70.7	68.2	61.7	65.1
HBK R5226	78.1**	75.0	51.6	53.1	47.0	54.9	88.8**	84.8	62.5	66.4
HBK RS5227	69.5	67.0	57.1	60.2	64.9**	66.2	81.3*	70.2	67.8	68.2
Progeny 5107RR	74.9*	65.3	59.3	55.2	37.2	44.8	78.5*	67.2	58.3	62.5
Progeny 5115RR	77.7*	72.5	71.5*	69.6	54.2	55.0	81.1*	74.2	68.9	71.1
GRAND MEAN	75.7	•	60.8	•	52.1	•	83.8	•	65.6	68.1
LSD (5%)	6.4	•	11.0	•	6.3	•	11.9	•	•	•
CV (%)	6.0	•	12.8	•	8.6	•	10.1	•	•	•

**Table 9. Nematode, Disease, and Chloride Sensitivity Ratings for MG V Soybean Cultivars.<sup>3</sup>**

Brand/Variety	Root Knot Nematode	Soybean Cyst Nematode		Frogeye	Stem Canker	Sudden Death Syn.	Aerial Blight	Chloride	
		2	5					2007	2008
Croplan Genetics RC5007	7	7	7	3 <sup>^</sup>	1	3*	3	Includer	Includer
Croplan Genetics RC5222	7	7	5	3 <sup>^</sup>	.	1*	7	Excluder	Mixed
Delta Grow 5160RR/STS	7	7	7	7	1	3 <sup>^</sup>	5	Includer	Includer
Dnya-Gro 32A53	5	7	7	1	1	3*	9	Excluder	Excluder
Dyna-Gro 33B52	7	7	7	3*	7	9	9	Mixed	Mixed
HBK R5226	3	7	7	3 <sup>^</sup>	1	7*	9	Excluder	Excluder
HBK RS5227	5	7	7	3 <sup>^</sup>	3	.	7	Includer	Includer
Progeny 5107RR	7	7	7	5 <sup>^</sup>	1	.	9	Includer	Includer
Progeny 5115RR	5	5	7	7 <sup>^</sup>	1	5 <sup>^</sup>	5	Includer	Includer

**Table 10. Agronomic Characteristics for MG V Soybean Cultivars.**

Brand/Variety	Relative Maturity	Sulfonylurea Tolerance (STS)	Avg. Days to Maturity	Lodging Score	Shatter Score	Plant Ht(in)	Flower Color	Pubescence Color	Pod Color	Hilum Color
Croplan Genetics RC5007	5.0	No	142	1.3	1.0	32	White	Gray	Tan	Buff
Croplan Genetics RC5222	5.2	No	142	1.3	1.0	29	White	Tawny	Tan	Black
Delta Grow 5160RR/STS	5.1	Yes	140	2.5	1.3	36	Purple	Gray	Brown	Black
Dnya-Gro 32A53	5.3	No	143	1.5	1.3	28	Purple	Tawny	Tan	Black
Dyna-Gro 33B52	5.2	No	143	1.5	1.0	26	White	Gray	Tan	Black
HBK R5226	5.2	No	146	1.0	1.0	27	Purple	Tawny	Tan	Black
HBK RS5227	5.1	Yes	144	1.0	1.0	28	White	Gray	Tan	Buff
Progeny 5107RR	5.1	.	142	3.0	1.0	38	.	.	.	.
Progeny 5115RR	5.1	No	142	2.5	1.0	39	Purple	Light Tawny	Brown	Black

## 2008 Early Planted Roundup Ready Soybean Update

### KEY CODES FOR TABLES FOR ALL TABLES

“\*” Denotes Seed Company Data

“^” Denotes Limited Data Available

1. The “Silt Loam Average” yield is the yields from Marianna, Rohwer and Poinsett County locations
2. The “All Location Average” yield is the yields from all locations.
3. Soybean disease and nematode ratings were conducted by Drs. Kirkpatrick and Cartwright with support from the Arkansas Soybean Promotion Board. Disease ratings are characterized by the following scale:  
**1 = Resistant 3 = Moderately Resistant 5 = Moderately Susceptible 7 = Susceptible 9 = Very Susceptible**

Additional soybean disease data can be accessed at the following website:

<http://comp.uark.edu/~avrtest/index.php?sb&content>

4. Root-knot nematode ratings refer to the Southern Root-Knot Nematode, *Meloidogyne incognita* (see <http://comp.uark.edu/~avrtest/index.php?sb&content> for additional information on experimental methods.)
5. Ratings for soybean cyst nematode were evaluated at the Southwest Research and Extension Center, Hope. Only races 2, 5, and 6 are currently being evaluated. Information concerning other soybean cyst nematode races may be available from seed companies.
6. Chloride Sensitivity – Excluder varieties accumulate chloride and restrict it to the roots. Includer varieties accumulate chloride throughout the plants. Varieties with a Mixed population have both Includer and Excluder plants. Don't assume that high soluble salts constitute a chloride ion problem. Chloride levels should be determined by irrigation water tests and/or plant tissue analysis.
7. Days to maturity represent the average number of days (of all locations) from planting until 80% of the soybeans in the plot were thought to be mature.
8. Soybean lodging is an average of all locations and is reported using the following criteria: **1** = all plants erect, **2** = all plants slightly leaning or a few plants down, **3** = all plants moderately leaning or 25-50% of the plants are down, **4** = all plants considerably leaning or 50-80% of the plants are down, **5** = all plants down.
9. Soybean shattering is an average of all locations and is reported by using the following criteria: **1** = no shattering, **2** = 1-3% shattered, **3** = 4-8% shattered, **4** = 9-19% shattered, **5** = 20% or more shattered.
10. Soybean plant height reported in inches and is an average of all locations.

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