



SOYBEAN *Update*

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2007 Soybean Performance Results for Full-Season & Double-Crop Roundup Ready[®] Production Systems in Arkansas

Hundreds of soybean varieties are commercially available to growers in Arkansas. Varietal performance, including yield, varies according to location, environmental adaptability to soils, maturity, lodging, height, disease and nematode resistance, and herbicide and chloride sensitivity. The information listed in this publication is largely derived from the University of Arkansas, Division of Agriculture soybean variety test and screening program and is provided as an aid in variety selection.

Proper variety selection involves knowledge of yield history, maturity, disease reaction, and many other factors. Many important characteristics are listed in this update for varieties, which, based primarily on yield potential, are considered adapted to Arkansas conditions. The location, soil description, and cultural information for each of the soybean performance trials conducted in 2007 are found in **Table 1.**

Since variety performance varies from year to year, 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 two-year and multi-location yields are also useful in variety selection. Producers are encouraged to closely evaluate variety trial results from locations that best typify their farming conditions.

SOYVA, a University of Arkansas, Division of Agriculture computerized variety selection program, can assist in making field-specific variety selection decisions. **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 this publication and **SOYVA** when selecting varieties. Contact your county Extension agent for details concerning **SOYVA**. Additional information is available at the University of Arkansas, Division of Agriculture, Cooperative Extension Service Web site

(<http://www.aragriculture.org/soybean.htm>): click on the **Computer Programs** link.

ADAPTED SOYBEAN VARIETIES

Generally, varieties within MG III-V are the best adapted for planting in Arkansas; however, there are situations where a given MG is inappropriate. Planting recommended varieties of more than one MG is recommended as a way to reduce the risk of adverse weather conditions prior to and during the harvest season. In Arkansas, the following designations apply to varieties within the various MGs: III – very early maturity; IV – mid-season maturity and VI – late maturity.

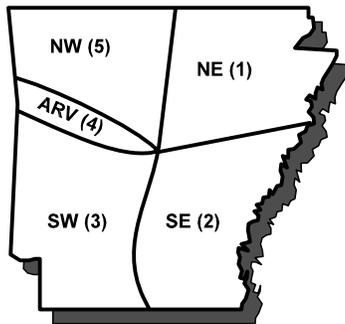


Figure 1. Area of Adaptation for Soybean Maturity Groups for All Production Systems

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

ABOUT THIS PUBLICAITON

Table 1 consists of cultural information that pertains to the 2007 University of Arkansas Soybean Performance Trials. **Tables 2 & 5** contain varietal information for both 2006 and 2007.

Tables 4 & 7 contain the many varietal characteristics of those varieties designated as being adapted to the Arkansas soybean production environment and are group 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.

Table 1. Location, Soil Description, and Cultural Information of the Arkansas Performance Trials - 2007								
Location	Soil Description	Planting Date	Row Width	Harvest Date by MG				Previous Crop
				Early IV	Late IV	Early V	Late V	
Keiser – Irrigated	Sharkey silty clay	4/30	38”	10/6	10/12	10/12	11/2	Grain Sorghum
Keiser – Non-irrigated	Sharkey silty clay	5/21	38”	10/4	10/10	11/3	11/2	Grain Sorghum
Marianna – Irrigated	Calloway silt loam	5/22	30”	10/11	10/30	10/30	10/30	Soybean
Stuttgart – Irrigated	Crowley silt loam	5/21	32”	10/2	10/3	10/29	10/30	Soybean
Rohwer – Irrigated	Sharkey clay	5/19	19”	10/1	10/11	10/12	10/12	Soybean
Kibler – Irrigated	Roxanna silt loam	6/05	36”	---	---	11/5	11/5	Soybean
Keiser DC – Irrigated	Sharkey silty clay	6/14	Twin 10”	11/4	11/5	11/5	11/5	Soybean

**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 indicated that there are no statistical difference between that varietal mean and the highest yielding varietal mean “***” at the test location utilizing the appropriate LSD (0.05) value.

2007 Full-Season Roundup Ready Soybean Update

Table 2. Yields (bu./A) of Maturity Group IV Roundup Ready Soybean Cultivars at All Locations 2007.

Brand/Variety	Keiser Irrigated	2-Yr. Avg.	Keiser Nonirrig	2-Yr. Avg.	Marianna Irrigated	2-Yr. Avg.	Stuttgart Irrigated	2-Yr. Avg.	Rohwer Irrigated	2-Yr. Avg.	Kibler ¹ Irrigated	2-Yr. Avg.	Clay Average ²	Silt Loam Average ³	All Location Average ⁴
-----bu./A-----															
<u>Maturity Group IV Early Cultivars (RM 4.0 to 4.6)</u>															
AGVENTURE 44D4	65.3*	64.6	29.2*	41.2	62.7	68.5	49.7	55.7	60.5*	53.9	•	•	60.5	56.2	57.6
AGVENTURE 46J5NRR	54.8	55.9	30.1*	39.8	62.3	62.5	40.6	49.5	44.2	47.8	•	•	49.5	51.5	50.5
Armor GP454	60.0	58.5	23.8	38.1	65.0	67.4	54.7	62.1	55.5	51.9	•	•	46.4	59.9	51.8
ASGROW AG4403	67.2*	61.4	30.2*	40.4	66.1	67.3	56.7	60.9	50.4	54.4	•	•	50.4	61.4	57.7
ASGROW AG4404	57.6	56.6	20.9	38.3	71.0*	75.5	53.5	57.4	48.8	48.1	•	•	42.4	53.5	45.2
ASGROW DKB46-51	69.0*	•	24.9	•	67.1	•	53.0	•	59.1*	•	•	•	42.0	60.1	51.0
Delta Grow 4150RR	67.4*	63.6	29.9*	41.2	60.6	64.8	57.7	63.4	60.3*	58.1	•	•	60.3	59.2	59.5
Delta Grow 4460RR	59.2	61.8	32.9*	42.8	65.0	66.7	55.0	58.5	55.0	53.0	•	•	57.1	60.0	58.6
Delta Grow 4470RR/STS	71.5*	•	26.1	•	73.2*	•	57.9	•	56.5*	•	•	•	41.3	57.9	46.8
Delta Grow 4660RR	73.2**	67.5	34.7**	43.7	60.7	63.1	66.3**	65.4	64.6*	63.1	•	•	64.6	60.7	62.7
Delta King DK4567	71.0*	63.1	21.0	36.6	73.0*	72.4	48.8	55.0	47.2	51.2	•	•	34.1	48.8	39.0
Delta King DK4667	71.9*	67.6	27.5*	40.4	57.9	63.9	66.1*	67.1	61.0*	59.1	•	•	61.0	62.0	61.7
Deltapine DP4112RR/S	60.6	57.7	27.7*	•	52.9	51.9	51.1	58.7	58.2*	52.2	•	•	59.4	52.0	55.7
Deltapine DP4546RR	65.1*	63.7	28.5*	38.9	60.4	58.9	54.7	56.4	57.6*	56.8	•	•	57.6	57.6	57.6
Dyna-Gro 32R46	67.3*	67.3	27.1*	40.9	78.3**	75.7	64.3*	66.5	57.5*	62.8	•	•	57.5	64.3	60.9
Dyna-Gro 37A44	63.1	63.2	33.5*	•	63.8	73.5	56.8	•	58.9*	54.8	•	•	61.0	60.3	60.7
Dyna-Gro 37F46	67.7*	64.8	21.3	36.4	52.0	56.5	65.5*	66.0	64.7**	62.1	•	•	43.0	58.8	50.9
HBK R3824	72.2*	67.2	24.9	37.9	53.5	52.4	52.9	58.8	58.3*	57.3	•	•	41.6	53.2	47.4
MORSOY RT4485N	65.5*	61.4	27.6*	42.0	69.8*	75.6	53.5	63.5	55.4	53.3	•	•	55.4	53.5	54.5
NK BRAND S46-U6	72.4*	69.3	31.7*	44.1	70.8*	77.2	63.5*	68.9	59.9*	57.1	•	•	59.9	63.5	61.7
Pioneer 93M90	63.9*	61.9	26.8	38.6	60.0	56.2	50.9	54.5	44.0	41.7	•	•	35.4	55.5	45.4
Pioneer 94M31	69.8*	67.7	18.8	35.9	57.5	54.7	50.7	56.1	44.4	43.2	•	•	31.6	54.1	42.9
S03-051RR	54.5	56.1	16.8	32.1	57.1	62.7	50.6	50.4	52.2	53.5	•	•	41.2	53.9	46.2
Terral TV44R27	67.7*	63.2	24.8	39.8	59.0	63.0	57.8	59.2	47.3	47.8	•	•	36.1	58.4	47.2
Terral TV46R15	62.2	60.9	18.6	35.9	61.5	64.1	53.1	54.2	58.1*	54.5	•	•	46.3	57.3	50.7
USG 7440nRR	66.4*	62.6	25.1	34.3	67.3	68.0	57.7	60.7	58.1*	54.9	•	•	41.6	62.5	52.1
USG 7466nRR	67.9*	66.1	28.5*	40.2	59.0	61.6	59.8*	64.8	63.3*	61.3	•	•	63.3	59.0	61.2
Grand mean	65.9	•	27.3	•	63.1	•	55.6	•	55.9	•	•	•	49.7	59.4	53.6
LSD (5%)	9.7	•	7.8	•	8.8	•	7.3	•	8.9	•	•	•	•	•	•
C.V. (%)	9.2	•	17.6	•	8.5	•	8.0	•	9.8	•	•	•	•	•	•

2007 Full-Season Roundup Ready Soybean Update

Table 2 (continued). Yields (bu./A) of Maturity Group IV Roundup Ready Soybean Cultivars at All Locations 2007.

Brand/Variety	Keiser Irrigated	2-Yr. Avg.	Keiser Nonirrig	2-Yr. Avg.	Marianna Irrigated	2-Yr. Avg.	Stuttgart Irrigated	2-Yr. Avg.	Rohwer Irrigated	2-Yr. Avg.	Kibler ¹ Irrigated	2-Yr. Avg.	Clay Average ²	Silt Loam Average ³	All Location Average ⁴
-----bu./A-----															
<u>Maturity Group IV Late Cultivars (RM 4.7 to 4.9)</u>															
AGVENTURE 49D6NRR	74.7	66.6	30.6	41.5	63.9*	65.0	71.9*	66.7	77.8*	69.0	•	•	61.0	67.9	63.8
Armor 49-V6	71.5	64.7	28.4	37.8	59.7	66.7	62.5	59.6	66.9	63.0	•	•	55.6	61.1	57.8
ASGROW AG4703	62.1	63.9	29.7	39.4	60.3	64.8	59.5	64.2	59.3	60.3	•	•	50.4	59.9	54.2
ASGROW AG4903	74.5	68.8	33.2*	43.7	64.1*	64.4	70.4*	65.8	63.5	61.5	•	•	57.1	67.3	61.1
Delta Grow 4840RR	67.9	63.2	26.0	37.1	54.1	60.3	57.7	57.1	51.1	57.2	•	•	48.3	55.9	51.4
Delta Grow 4860RR	75.1	70.3	28.9	41.8	57.5	63.6	54.4	50.7	71.0*	64.3	•	•	58.3	56.0	57.4
Delta Grow 4960RR	69.4	67.2	35.1*	43.5	66.9*	67.3	57.3	59.7	44.9	49.4	•	•	49.8	62.1	54.7
Delta Grow 4970RR	73.1	70.3	31.5	44.9	55.5	65.1	64.5	66.3	66.3	59.4	•	•	57.0	60.0	58.2
Delta Grow 4975LARR	67.1	66.6	40.1**	48.4	60.9	68.9	72.4*	67.9	63.4	62.9	•	•	56.9	66.7	60.8
Delta King DK4763	57.2	57.9	24.7	37.8	51.4	61.6	51.4	58.0	60.7	54.2	•	•	47.5	51.4	49.1
Delta King DK4866	73.6	68.6	37.0*	44.9	58.5	65.4	60.3	62.3	67.8*	65.7	•	•	59.5	59.4	59.4
Delta King DK4967	66.4	65.4	27.9	40.3	54.5	61.9	54.9	54.7	63.1	64.2	•	•	52.5	54.7	53.4
Delta King DK4968	70.2	67.4	31.2	40.6	46.4	57.5	66.6*	64.3	71.4*	67.8	•	•	57.6	56.5	57.2
Deltapine DP4724RR	67.4	66.6	26.2	38.8	58.1	62.7	49.1	52.4	71.8*	63.3	•	•	55.1	53.6	54.5
Deltapine DP4888RR/S	72.5	68.3	35.6*	41.8	53.6	59.8	59.7	62.7	77.9**	67.8	•	•	62.0	56.7	59.9
Deltapine DP4919RR/S	74.0	67.2	26.9	38.4	54.8	65.2	60.5	57.0	65.2	63.2	•	•	55.4	57.7	56.3
Dyna-Gro 35Z49	60.5	58.4	35.0*	40.1	62.3	64.4	72.0*	63.4	62.6	61.0	•	•	52.7	67.2	58.5
Dyna-Gro 36Y48	73.7	68.0	28.1	36.3	64.7*	67.5	72.2*	60.8	67.7*	63.3	•	•	56.5	68.5	61.3
Dyna-Gro 37P49	88.5**	75.3	30.1	42.6	63.5*	67.7	72.6**	69.3	65.5	62.5	•	•	61.4	68.1	64.0
HBK R4724	68.8	64.4	27.9	39.4	67.3*	69.5	58.9	59.5	60.9	57.7	•	•	52.5	63.1	56.8
HBK R4924	60.0	58.4	30.0	38.1	60.2	64.7	67.8*	63.7	62.9	62.2	•	•	51.0	64.0	56.2
MORSOY RT4802N	70.7	68.8	28.6	42.3	58.5	64.7	51.3	53.2	73.0*	65.3	•	•	57.4	54.9	56.4
MORSOY RT4806N	59.6	62.7	27.8	39.9	69.0*	74.2	55.5	57.7	48.8	55.0	•	•	45.4	62.3	52.1
MORSOY RT4914N	71.5	71.4	32.6*	45.1	53.5	62.3	67.7*	64.7	60.9	61.3	•	•	55.0	60.6	57.2
MORSOY RTS4706N	70.4	66.5	25.4	39.1	70.3*	75.4	60.7	60.5	57.4	57.1	•	•	51.1	65.5	56.8
MORSOY RTS4955N	68.8	64.7	29.6	38.6	62.5	63.6	66.8*	62.1	67.0	61.5	•	•	55.1	64.7	58.9
MPV 4905nRR	69.3	66.4	30.3	39.9	60.9	64.6	58.2	55.9	57.4	60.1	•	•	52.3	59.6	55.2
NK BRAND S49-H7	67.9	59.9	38.1*	41.4	66.8*	66.8	65.2	68.7	57.2	52.6	•	•	54.4	66.0	59.0
NK BRAND S49-W6	62.3	61.6	31.7	43.7	61.4	62.5	60.0	64.9	59.9	54.7	•	•	51.3	60.7	55.1
Pioneer 94B73	57.4	60.1	32.4	44.5	45.1	51.4	50.4	59.0	53.1	53.2	•	•	47.6	47.8	47.7
Pioneer 94M80	69.3	66.4	30.5	41.9	57.4	62.5	52.7	56.5	56.4	60.0	•	•	52.1	55.1	53.3
Progeny 4804RR	69.3	68.0	28.8	41.7	50.7	57.6	57.7	57.2	60.5	63.1	•	•	52.9	54.2	53.4
Progeny 4949RR	71.7	68.7	33.7*	43.5	48.4	56.5	60.6	62.4	68.1*	63.5	•	•	57.8	54.5	56.5
Schillinger 495RC	65.9	68.7	29.3	43.1	57.2	64.9	67.7*	66.6	65.2	59.6	•	•	53.5	62.5	57.1
Stine 4782-4	68.0	67.3	31.1	41.8	71.2**	73.6	62.5	65.4	54.1	56.2	•	•	51.1	66.9	57.4
Terral TV47R17	70.5	68.7	30.8	40.6	57.3	61.7	59.7	58.3	71.3*	65.9	•	•	57.5	58.5	57.9
Terral TV48R14	67.4	64.9	27.1	39.8	49.7	56.1	61.9	64.4	66.7	62.2	•	•	53.7	55.8	54.6
Terral TV49R17	72.7	67.6	25.2	37.9	51.3	56.4	56.2	57.2	60.5	61.2	•	•	52.8	53.8	53.2
Terral TV49R27	77.1	73.6	29.9	41.4	53.3	61.8	65.3	64.1	65.5	63.4	•	•	57.5	59.3	58.2
USG 7494nRR	70.5	66.5	31.7	43.2	56.8	61.0	62.5	59.6	74.2*	67.4	•	•	58.8	59.7	59.1
Grand mean	68.6	•	30.1	•	59.5	•	62.0	•	63.0	•	•	•	53.9	60.8	56.6
LSD (5%)	10.7	•	7.6	•	7.8	•	7.0	•	10.3	•	•	•	•	•	•
C.V. (%)	9.7	•	15.8	•	8.2	•	7.1	•	10.2	•	•	•	•	•	•

2007 Full-Season Roundup Ready Soybean Update

Table 3. Nematode, Disease, and Chloride Sensitivity Ratings for MG IV Soybean Cultivars⁵.

Brand/Variety	Root Knot Nematode ⁶	Soybean Cyst Nematode ⁷			Frogeye	Stem Canker	Sudden Death Syn.	Aerial Blight	Chloride Sensitivity ⁸	
		2	5	6					2006	2007
AGVENTURE 44D4	7	7	7	5	---	1	---	3^	---	Includer
AGVENTURE 46J5NRR	3	3	7	5	---	1	---	3^	---	Includer
AGVENTURE 49D6NRR	7	7	5	7	---	1	---	3^	---	Includer
Armor 49-V6	7	7	5	5	5^	1	5*	3^	---	Includer
Armor GP454	7	7	5	3	3^	1	---	7^	Includer	Includer
ASGROW AG4403	5	7	7	7	7	1	3*	3^	Includer	Includer
ASGROW AG4404	7	7	7	5	7	5	5*	5^	Includer	Includer
ASGROW AG4703	7	7	7	7	7	5	5*	5^	---	Includer
ASGROW AG4903	7	7	7	7	7	7	7^	7^	Includer	Includer
ASGROW DKB46-51	7	7	7	5	7^	5	5*	3^	Includer	Includer
Delta Grow 4150RR	7	7	7	5	5^	1	3*	5^	Excluder	Excluder
Delta Grow 4460RR	7	7	7	3	3^	3	3*	5^	Includer	Includer
Delta Grow 4470RR/STS	7	7	7	5	1*	1	5*	---	---	Includer
Delta Grow 4660RR	5	7	7	5	5^	1	3*	5^	Includer	Includer
Delta Grow 4840RR	7	7	5	5	5	3	3*	7^	Includer	Mixed
Delta Grow 4860RR	7	7	7	7	3	1	5	7^	Includer	Includer
Delta Grow 4960RR	7	7	7	7	3	3	7	7^	Includer	Includer
Delta Grow 4970RR	7	7	7	3	1	1	7	5^	Includer	Includer
Delta Grow 4975LARR	7	7	7	7	5^	7	3^	3^	---	Includer
Delta King DK4567	7	5	5	5	3*	1	3*	3^	---	Includer
Delta King DK4667	3	7	7	5	3^	1	3*	3^	Includer	Includer
Delta King DK4763	7	5	7	3	7	7	5	7^	Mixed	Includer
Delta King DK4866	7	7	7	7	5	7	3	5^	Mixed	Mixed
Delta King DK4967	7	7	7	3	3	1	7	5^	Includer	Mixed
Delta King DK4968	7	7	5	7	3*	1	5*	3^	---	Mixed
Deltapine DP4112RR/S	5	7	7	7	3^	1	5*	5^	Includer	Mixed
Deltapine DP4546RR	5	7	7	7	3	3	7	3^	Excluder	Excluder
Deltapine DP4724RR	7	7	7	3	3	1	3*	3^	Includer	Mixed
Deltapine DP4888RR/S	7	7	7	7	3^	1	---	7^	---	Mixed
Deltapine DP4919RR/S	7	5	7	5	3^	1	---	3^	---	Includer
Dyna-Gro 32R46	7	7	7	7	1^	1	---	5^	Includer	Includer
Dyna-Gro 35Z49	7	7	7	5	3^	1	1*	3^	---	Includer
Dyna-Gro 36Y48	7	7	5	7	5^	1	1^	3^	---	Includer
Dyna-Gro 37A44	7	7	7	5	3^	3	3*	5^	Includer	Includer
Dyna-Gro 37F46	5	7	7	7	3^	1	1*	7^	Includer	Includer

2007 Full-Season Roundup Ready Soybean Update

Table 3 (continued). Nematode, Disease, and Chloride Sensitivity Ratings for MG IV Soybean Cultivars⁵

Brand/Variety	Root Knot Nematode ⁶	Soybean Cyst Nematode ⁷			Frogeye	Stem Canker	Sudden Death Syn.	Aerial Blight	Chloride Sensitivity ⁸	
		2	5	6					2006	2007
Dyna-Gro 37P49	7	5	7	7	3^	7	1^	3^	---	Includer
HBK R3824	7	7	7	7	3^	1	3*	5^	Includer	Includer
HBK R4724	7	7	7	7	5	1	5^	3^	Includer	Mixed
HBK R4924	7	7	7	5	5	1	3	5^	Includer	Includer
MORSOY RT4485N	7	7	5	3	3^	1	3*	5^	Includer	Includer
MORSOY RT4802N	7	7	7	5	1^	3	3*	5^	---	Includer
MORSOY RT4806N	7	7	7	5	1^	1	1^	7^	---	Includer
MORSOY RT4914N	7	7	7	5	1^	1	1*	3^	---	Includer
MORSOY RTS4706N	7	7	5	5	1^	1	---	3^	---	Includer
MORSOY RTS4955N	5	5	7	5	5^	1	3*	5^	---	Includer
MPV 4905nRR	5	7	5	5	1^	1	---	7^	Includer	Includer
NK BRAND S46-U6	7	7	5	3	1^	1	---	3^	Includer	Includer
NK BRAND S49-H7	7	7	7	7	5^	1	5*	5^	Excluder	Excluder
NK BRAND S49-W6	7	7	7	5	1^	1	7*	5^	Includer	Includer
Pioneer 93M90	7	7	7	7	3^	1	3*	3^	Includer	Includer
Pioneer 94B73	7	7	7	7	1	3	5*	5^	---	Includer
Pioneer 94M31	7	7	7	5	1^	1	3*	3^	Includer	Includer
Pioneer 94M80	7	7	7	5	3^	1	1*	5^	---	Excluder
Progeny 4804RR	5	7	7	5	5	1	3^	7^	---	Includer
Progeny 4949RR	7	7	7	7	1	1	7	5^	---	Includer
S03-051 RR	7	7	7	7	3^	7	---	3^	Mixed	Excluder
Schillinger 495RC	7	7	7	5	1^	1	---	3^	---	Includer
Stine 4782-4	7	7	7	5	1^	1	1*	7^	---	Includer
Terral TV44R27	7	7	7	3	3^	1	3*	5^	Includer	Includer
Terral TV46R15	7	7	7	7	1^	1	---	7^	Includer	Includer
Terral TV47R17	7	7	5	7	1*	5	1*	7^	Mixed	Includer
Terral TV48R14	7	7	7	7	1^	3	3*	9^	---	Mixed
Terral TV49R17	7	7	7	3	1^	5	1*	7^	---	Includer
Terral TV49R27	7	7	3	5	1^	1	3*	7^	---	Includer
USG 7440NRR	5	7	7	7	7	1	3*	3^	Includer	Includer
USG 7466NRR	5	7	7	5	5^	1	3*	7^	Includer	Includer
USG 7494NRR	7	7	7	7	7	1	3^	7^	---	Includer

2007 Full-Season Roundup Ready Soybean Update

Table 4. Agronomic Characteristics for MG IV Soybean Cultivars.

Brand/Variety	Relative Maturity	Sulfonylurea Tolerance (STS)	Avg. Days to Maturity ⁹	Lodging Score ¹⁰	Shatter Score ¹¹	Plant Ht(in) ¹²	Flower Color	Pubescence Color	Pod Color	Hilum Color
AGVENTURE 44D4	4.4	N	118.0	1.9	1.1	37.0	Purple	Light Tawny	Brown	Brown
AGVENTURE 46J5NRR	4.6	Y	121.2	1.0	1.0	28.2	Purple	Tawny	Tan	Black
AGVENTURE 49D6NRR	4.9	N	133.6	1.2	1.1	37.2	Purple	Light Tawny	Brown	Black
Armor 49-V6	4.9	N	127.4	1.5	1.0	38.0	Purple	Tawny	---	Black
Armor GP454	4.5	N	118.2	1.9	1.1	36.2	Purple	Gray	Tan	Brown
ASGROW AG4403	4.4	N	119.4	1.4	1.1	34.4	Purple	Light Tawny	Tan	Black
ASGROW AG4404	4.4	Y	118.4	1.3	1.0	30.8	White	Tawny	Tan	Black
ASGROW AG4703	4.7	N	121.8	1.5	1.1	29.2	Purple	Light Tawny	Tan	Black
ASGROW AG4903	4.9	Y	131.4	1.5	1.1	32.4	Purple	Light Tawny	Tan	Black
ASGROW DKB46-51	4.6	N	120.0	1.6	1.0	34.6	White	Tawny	Tan	Black
Delta Grow 4150RR	4.1	N	120.6	1.8	1.0	33.6	White	Tawny	Tan	Brown
Delta Grow 4460RR	4.4	N	117.4	1.9	1.1	37.0	White/Purple	Light Tawny	Brown	Black
Delta Grow 4470RR/STS	4.4	Y	121.6	1.2	1.3	28.0	Purple	---	Brown	Black
Delta Grow 4660RR	4.6	N	121.6	2.4	1.0	37.2	Purple	Light Tawny	Brown	Black
Delta Grow 4840RR	4.8	N	123.0	2.0	1.4	32.8	Purple	Light Tawny	Tan	Black
Delta Grow 4860RR	4.8	N	122.8	1.9	1.2	32.8	Purple	Tawny	Tan	Black
Delta Grow 4960RR	4.9	N	128.0	1.4	1.2	27.8	Purple	Gray	Tan	Buff
Delta Grow 4970RR	4.9	N	130.0	2.2	1.3	37.6	Purple	Tawny	Brown	Black
Delta Grow 4975LARR	4.9	N	128.6	1.3	1.0	36.0	Purple	Light Tawny	Tan	Black
Delta King DK4567	4.5	N	121.6	1.4	1.0	30.8	White	Tawny	Tan	Black
Delta King DK4667	4.6	N	120.4	2.1	1.0	38.0	Purple	Light Tawny	Brown	Black
Delta King DK4763	4.7	N	123.0	1.5	1.1	31.4	White	Tawny	Tan	Black
Delta King DK4866	4.8	Y	127.2	1.7	1.1	33.0	Purple	Light Tawny	Brown	Black
Delta King DK4967	4.9	N	122.2	1.9	1.1	32.8	Purple	Tawny	Tan	Black
Delta King DK4968	4.9	N	128.2	2.3	1.0	38.6	Purple	Gray	Tan	Imp. Black
Deltapine DP4112RR/S	4.1	Y	117.0	1.7	1.1	38.4	Purple	Tawny	---	---
Deltapine DP4546RR	4.5	N	120.8	1.7	1.3	36.4	White	Tawny	Tan	Black
Deltapine DP4724RR	4.7	N	122.0	1.6	1.1	33.8	Purple	Tawny	Tan	Black
Deltapine DP4888RR/S	4.8	Y	128.6	1.7	1.0	37.8	White	Tawny	Tan	Black
Deltapine DP4919RR/S	4.9	Y	125.2	1.7	1.1	36.2	White	Tawny	Tan	Black
Dyna-Gro 32R46	4.6	Y	126.0	1.1	1.0	29.8	Purple	Light Tawny	Tan	Black
Dyna-Gro 35Z49	4.9	N	130.4	1.5	1.0	37.0	Purple	Gray	Brown	Black
Dyna-Gro 36Y48	4.8	Y	129.4	1.7	1.1	36.2	Purple	Gray	Tan	Imp. Black
Dyna-Gro 37A44	4.4	N	119.6	1.7	1.1	35.4	Purple	Tawny	Brown	Brown
Dyna-Gro 37F46	4.6	N	120.2	2.1	1.3	38.2	Purple	Light Tawny	Brown	Black

2007 Full-Season Roundup Ready Soybean Update

Table 4 (continued). Agronomic Characteristics for MG IV Soybean Cultivars.

Brand/Variety	Relative Maturity	Sulfonylurea Tolerance (STS)	Avg. Days to Maturity ⁹	Lodging Score ¹⁰	Shatter Score ¹¹	Plant Ht(in) ¹²	Flower Color	Pubescence Color	Pod Color	Hilum Color
Dyna-Gro 37P49	4.9	N	128.0	1.9	1.1	35.0	Purple	Tawny	Tan	Black
HBK R3824	4.0	N	117.2	1.6	1.1	34.2	Purple	Light Tawny	Tan	Black
HBK R4724	4.7	N	125.6	1.4	1.5	35.2	Purple	Light Tawny	Brown	Black
HBK R4924	4.9	N	127.4	1.6	1.0	36.8	Purple	Light Tawny	Brown	Black
MORSOY RT4485N	4.4	N	119.4	1.7	1.1	36.6	Purple	Light Tawny	Brown	Brown
MORSOY RT4802N	4.8	N	122.6	1.7	1.1	32.4	Purple	Tawny	Tan	Black
MORSOY RT4806N	4.8	N	120.2	1.6	1.2	34.8	Purple	Light Tawny	Tan	Black
MORSOY RT4914N	4.9	N	129.0	2.1	1.1	36.2	Purple	Light Tawny	Brown	Black
MORSOY RTS4706N	4.7	Y	126.2	1.0	1.1	26.2	Mix	Gray	Tan	Imp. Black
MORSOY RTS4955N	4.9	Y	129.4	1.9	1.1	35.2	Purple	Gray	Tan	Imp. Black
MPV 4905nRR	4.9	N	125.0	2.1	1.1	35.0	---	---	---	---
NK BRAND S46-U6	4.6	N	127.2	1.3	1.1	35.6	White	Light Tawny	Brown	Black
NK BRAND S49-H7	4.9	N	130.6	1.1	1.1	35.0	White	Tawny	Tan	Black
NK BRAND S49-W6	4.9	N	129.6	1.3	1.1	34.0	White	Light Tawny	Tan	Black
Pioneer 93M90	3.9	N	114.0	1.3	1.7	31.2	Purple	Gray	Brown	Imp. Black
Pioneer 94B73	4.7	N	121.2	1.8	1.2	32.2	Purple	Light Tawny	Tan	Black
Pioneer 94M31	4.3	N	113.8	1.8	1.5	31.0	White	Light Tawny	Tan	Brown
Pioneer 94M80	4.8	N	122.8	1.8	1.1	32.8	White	Tawny	Tan	Black
Progeny 4804RR	4.8	N	124.2	1.9	1.2	32.4	Purple	Light Tawny	Tan	Black
Progeny 4949RR	4.9	N	129.4	1.9	1.1	38.2	White	Tawny	Brown	Black
S03-051 RR	3.9	N	116.2	1.6	1.3	38.2	White	Tawny	Tan	Black
Schillinger 495RC	4.9	N	129.6	2.1	1.2	36.4	Purple	Light Tawny	Brown	Black
Stine 4782-4	4.7	N	129.2	1.0	1.1	32.6	Purple	Light Tawny	Tan	Black
Terral TV44R27	4.4	N	117.8	2.0	1.0	38.4	Purple	Light Tawny	Brown	Black
Terral TV46R15	4.6	N	120.4	2.0	1.3	38.6	White	Tawny	Tan	Black
Terral TV47R17	4.7	N	127.0	1.9	1.1	41.0	Purple	Gray	Brown	Black
Terral TV48R14	4.8	N	125.8	1.5	1.1	35.4	Purple	Tawny	Tan	Imp. Black
Terral TV49R17	4.9	N	126.4	1.4	1.1	40.2	White	Tawny	Brown	Black
Terral TV49R27	4.9	N	129.2	2.4	1.1	35.8	Purple	Light Tawny	Brown	Black
USG 7440NRR	4.4	N	120.4	1.2	1.0	35.6	Purple	Light Tawny	Brown	Black
USG 7466NRR	4.6	N	121.6	1.9	1.0	40.0	Purple	Light Tawny	Brown	Black
USG 7494NRR	4.9	N	124.2	2.2	1.1	33.4	Purple	Light Tawny	Tan	Black

2007 Full-Season Roundup Ready Soybean Update

Table 5. Yields (bu./A) of Maturity Group V Roundup Ready Soybean Cultivars at All Locations 2007.

Brand/Variety	Keiser Irrigated	2-Yr. Avg.	Keiser Nonirrig	2-Yr. Avg.	Marianna Irrigated	2-Yr. Avg.	Stuttgart Irrigated	2-Yr. Avg.	Rohwer Irrigated	2-Yr. Avg.	Kibler ¹ Irrigated	2-Yr. Avg.	Clay Average ²	Silt Loam Average ³	All Location Average ⁴
-----bu./A-----															
<u>Maturity Group V Early Cultivars (RM 5.0 to 5.5)</u>															
AGVENTURE 50D2RR	69.9	68.5	15.1	35.7	57.2	55.6	57.9	64.9	49.9	47.6	53.1	47.2	45.0	56.1	50.5
Armor GP-533	80.6*	72.0	28.3	44.0	68.5*	64.0	69.3*	71.1	57.9	64.5	62.5	50.8	55.6	66.8	61.2
ASGROW AG5301	75.3	66.9	34.5*	43.0	61.5	63.1	57.9	64.1	44.0	55.9	51.3	45.5	51.3	56.9	54.1
ASGROW AG5501	73.1	64.5	31.8	38.4	67.9*	70.0	65.7	71.9	63.3	59.6	55.2	50.5	56.1	62.9	59.5
Croplan RC5555	73.0	65.2	35.6*	43.6	66.8	64.8	69.3*	67.8	51.4	51.7	59.8	54.5	53.3	65.3	59.3
Delta Grow 5160RR/STS	74.1	65.2	28.6	34.9	68.8*	66.7	66.6	64.3	54.2	56.8	57.6	51.2	52.3	64.3	58.3
Delta Grow 5300RR	76.8*	67.5	30.3	40.4	62.7	66.3	64.2	67.3	59.0	47.5	60.8	54.5	55.4	62.6	59.0
Delta Grow 5470RR	69.4	64.0	31.5	42.3	64.4	67.1	63.8	68.0	54.3	49.8	60.6	53.9	51.7	62.9	57.3
Delta King DK5066	74.0	65.6	20.9	34.9	60.3	62.1	67.7*	66.1	54.8	56.0	59.9	51.5	49.9	62.6	56.3
Delta King DK5068	68.5	66.5	24.2	40.5	52.9	60.5	62.0	60.8	69.5*	67.5	62.9	.	54.1	59.3	56.7
Delta King DK5161	76.2*	70.7	32.1	44.1	56.7	60.8	64.4	68.6	54.5	60.4	55.9	51.1	54.3	59.0	56.6
Delta King DK52K6	73.4	67.3	33.4*	45.5	70.9*	69.9	69.8*	71.2	63.2	65.3	61.2	55.2	56.7	67.3	62.0
Delta King DK5366	75.1	66.8	30.9	42.2	69.7*	65.5	69.4*	70.3	61.2	70.1	55.2	53.3	55.7	64.8	60.3
Delta King DK5368	74.6	68.7	37.4*	45.6	65.6	66.2	69.6*	69.4	59.3	62.9	54.0	49.8	57.1	63.1	60.1
Delta King DK5567	73.5	66.0	36.3*	43.4	73.1*	69.0	65.1	69.1	60.8	70.4	60.6	57.3	56.9	66.3	61.6
Deltapine DP5115RR/S	64.5	58.5	28.2	38.6	58.4	59.3	62.7	64.0	71.7*	69.4	55.4	48.6	54.8	58.8	56.8
Dyna-Gro 32A53	71.9	67.8	28.7	40.0	53.1	57.2	60.5	62.9	55.5	60.8	54.4	50.0	52.0	56.0	54.0
Dyna-Gro 33B52	73.5	66.6	35.4*	43.9	63.9	62.4	62.9	65.4	69.4*	64.0	53.4	53.5	59.4	60.1	59.8
Dyna-Gro 33X55	75.5	67.3	35.5*	45.3	73.4*	69.2	67.7*	69.4	62.8	64.0	57.7	49.7	57.9	66.3	62.1
FFR 5663	76.9*	71.4	39.4**	46.1	67.6*	67.2	66.8	70.4	62.2	65.4	57.8	53.8	59.5	64.1	61.8
HBK R5226	77.5*	68.6	33.8*	42.1	67.7*	63.3	64.4	68.4	65.7*	70.2	56.7	50.4	59.0	62.9	61.0
HBK R5425	65.0	61.2	26.4	39.5	58.5	56.4	68.9*	69.6	74.8**	67.8	48.5	44.5	55.4	58.6	57.0
HBK R5525	75.7	68.4	29.7	41.5	73.4*	72.1	69.6*	72.2	72.2*	71.6	59.5	50.5	59.2	67.5	63.4
MORSOY RT5306N	72.5	62.3	34.3*	42.6	59.4	64.7	66.0	65.5	45.6	56.2	58.0	50.7	50.8	61.1	56.0
MORSOY RT5506N	73.5	65.5	36.4*	44.4	67.6*	68.5	66.0	66.9	36.8	47.2	62.1	56.1	48.9	65.2	57.1
MPV 5408nRR	73.4	68.6	29.7	42.9	69.6*	68.3	63.9	68.9	60.0	57.0	50.7	51.2	54.4	61.4	57.9
MPV 5505nRR	77.4*	68.8	35.4*	43.6	70.8*	68.6	63.6	65.5	42.9	53.5	69.2**	62.4	51.9	67.9	59.9
NK BRAND S52-F2	75.7	69.1	34.2*	46.7	65.9	65.4	62.2	64.7	58.7	57.7	61.3	56.6	56.2	63.1	59.7
Pioneer 95M30	79.4*	70.1	26.2	39.6	59.7	61.3	66.2	66.7	58.2	59.0	53.5	50.2	54.6	59.8	57.2
Pioneer 95M50	74.8	68.2	30.6	44.1	74.0**	71.8	62.3	70.6	69.5*	65.5	60.0	57.1	58.3	65.4	61.9
Progeny 5115RR	66.7	62.9	26.3	36.9	59.9	59.5	75.9**	71.3	64.1	59.3	61.6	51.4	52.4	65.8	59.1
R01-4834RR	81.4**	72.4	27.7	41.9	56.7	60.7	62.8	66.9	51.6	56.2	58.6	54.4	53.6	59.4	56.5
Terral TV52R14	71.2	61.8	24.7	36.8	69.1*	68.3	66.9	66.7	52.5	51.3	56.4	52.2	49.5	64.1	56.8
Terral TV55R15	76.2*	66.9	36.9*	46.6	62.9	57.4	74.6*	74.6	68.7*	69.3	62.0	55.4	60.6	66.5	63.6
USG 7515nRS	74.7	65.6	20.2	33.5	65.7	63.0	64.0	62.4	59.2	54.9	54.0	49.6	51.4	61.2	56.3
USG 7553nRS	77.3*	66.6	33.0*	43.1	71.9*	69.6	58.8	65.6	46.6	58.3	62.0	58.9	52.3	64.2	58.3
Grand mean	73.5	.	29.6	.	63.5	.	63.7	.	55.8	.	57.6	.	53.0	61.6	57.3
LSD (5%)	5.5	.	7.1	.	6.9	.	8.7	.	9.8	.	5.5
C.V. (%)	4.7	.	15.0	.	6.8	.	8.5	.	10.9	.	6.0

2007 Full-Season Roundup Ready Soybean Update

Table 5 (continued). Yields (bu./A) of Maturity Group V Roundup Ready Soybean Cultivars at All Locations 2007.

Brand/Variety	Keiser Irrigated	2-Yr. Avg.	Keiser Nonirrig	2-Yr. Avg.	Marianna Irrigated	2-Yr. Avg.	Stuttgart Irrigated	2-Yr. Avg.	Rohwer Irrigated	2-Yr. Avg.	Kibler ¹ Irrigated	2-Yr. Avg.	Clay Average ²	Silt Loam Average ³	All Location Average ⁴
-----bu./A-----															
<u>Maturity Group V Late Cultivars (RM 5.6 to 5.9)</u>															
AGS 568RR	73.2	▪	36.8*	47.5	66.5*	62.8	69.7*	70.7	52.8	57.1	57.2	61.6	54.3	64.5	59.4
AGVENTURE 57D7RR	72.8	▪	37.2*	48.4	67.7*	63.1	68.3*	73.2	52.0	60.0	63.1*	61.2	54.0	66.4	60.2
ASGROW AG5605	85.8**	78.6	31.5*	45.1	69.0*	65.2	59.9	65.7	63.7	66.8	68.2*	67.6	60.3	65.7	63.0
ASGROW AG5903	82.4*	75.3	29.3	42.7	66.6*	61.3	73.1*	70.5	55.1	58.2	68.6**	66.1	55.6	69.4	62.5
ASGROW AG5905	79.0	74.1	28.3	40.6	62.3	61.7	61.3	64.4	73.9**	68.7	61.7	62.7	60.4	61.8	61.1
Croplan RC5955	79.6	▪	30.1	44.9	64.1*	63.2	71.1*	71.6	70.7*	69.2	56.6	58.3	60.1	63.9	62.0
Delta Grow 5630RR	77.6	74.6	30.0	42.1	60.4	56.0	75.9**	69.7	50.7	59.4	56.0	59.6	52.8	64.1	58.4
Delta Grow 5830RR	77.2	73.3	34.7*	47.8	64.4*	65.8	62.4	66.3	62.9	68.9	61.4	60.4	58.3	62.7	60.5
Delta Grow 5960RR	77.3	74.3	31.4*	45.1	60.8	55.7	73.2*	72.4	51.1	59.6	57.6	58.3	53.3	63.9	58.6
Delta King DK55T6	81.0*	73.2	28.6	43.0	58.4	54.2	65.6	68.7	57.8	63.2	64.5*	63.3	55.8	62.8	59.3
Deltapine DP5634RR	77.4	74.7	28.5	42.5	65.2*	66.0	66.1	65.1	60.8	65.0	59.3	60.0	55.6	63.5	59.6
Deltapine DP5915RR	80.7*	75.7	35.1*	47.6	64.0*	63.1	64.8	67.5	61.5	58.0	59.8	58.2	59.1	62.9	61.0
Dyna-Gro 34J56	73.8	▪	30.0	45.1	58.7	57.9	60.7	65.2	51.5	63.5	58.4	60.2	51.8	59.3	55.5
Dyna-Gro 3583	76.2	74.8	31.9*	44.3	59.0	58.6	73.5*	73.5	54.4	59.6	58.7	60.2	54.2	63.7	59.0
Dyna-Gro 36N57	77.6	76.0	31.9*	43.7	70.3**	67.0	71.5*	73.1	59.8	62.2	60.6	61.0	56.4	67.5	62.0
HBK R5825	76.4	72	29.1	43.5	59.8	58.1	58.5	63.5	51.1	56.5	54.5	54.9	52.2	57.6	54.9
MORSOY RT5620N	73.0	72.2	29.6	41.5	62.7	56.1	73.2*	70.1	64.1	65.7	61.7	59.8	55.6	65.9	60.7
MORSOY RT5903N	85.6*	78.9	33.6*	47.1	59.4	56.6	66.2	70.0	57.8	63.5	60.4	62.3	59.0	62.0	60.5
Progeny 5650RR	76.5	▪	30.5*	47.1	61.5	62.9	69.3*	69.9	68.3*	68.6	63.0*	63.1	58.4	64.6	61.5
Terral TV57R14	75.1	71.7	18.8	37.7	62.7	59.4	69.2*	69.6	62.2	60.3	52.9	56.1	52.0	61.6	56.8
Terral TV57R16	71.0	▪	26.6	39.7	57.7	54.0	64.3	66.7	63.2	63.1	55.6	54.8	53.6	59.2	56.4
Terral TV59R16	78.2	▪	38.3**	49.2	65.4*	64.6	74.9*	75.5	60.1	63.5	62.0	65.7	58.9	67.4	63.2
USG 7582nRR	76.4	75.1	35.7*	47.9	58.0	59.0	74.7*	76.0	67.5*	65.3	58.8	61.6	59.9	63.8	61.9
USG ALLEN	82.6*	▪	33.3*	45.5	64.1*	59.6	60.7	64.3	54.5	58.6	59.7	59.8	56.8	61.5	59.2
Grand mean	77.2	▪	31.3	▪	62.4	▪	68.0	▪	59.3	▪	59.4	▪	55.9	63.3	59.6
LSD (5%)	5.6	▪	7.8	▪	6.9	▪	9.1	▪	9.7	▪	6.1	▪	•	•	•
C.V. (%)	4.5	▪	15.4	▪	6.8	▪	8.2	▪	10.1	▪	6.3	▪	•	•	•

2007 Full-Season Roundup Ready Soybean Update

Table 6. Nematode, Disease, and Chloride Sensitivity Ratings for MG V Soybean Cultivars⁵.

Brand/Variety	Root Knot Nematode ⁶	Soybean Cyst Nematode ⁷			Frogeye	Stem Canker	Sudden Death Syn.	Aerial Blight	Chloride Sensitivity ⁸	
		2	5	6					2006	2007
AGS 568RR	7	5	7	5	1^	7	1	5^	Mixed	Excluder
AGVENTURE 50D2RR	7	5	5	5	---	3	---	7^	---	Includer
AGVENTURE 57D7RR	7	7	7	7	---	1	---	5^	---	Excluder
Armor GP-533	7	7	7	7	1*	3	---	5^	Excluder	Excluder
ASGROW AG5301	7	7	7	5	7	1	7	5^	Excluder	Mixed
ASGROW AG5501	7	7	7	5	5	1	5	7^	Includer	Includer
ASGROW AG5605	7	7	7	7	7	7	3	5^	Excluder	Excluder
ASGROW AG5903	7	7	7	5	7	5	7	7^	Mixed	Mixed
ASGROW AG5905	7	7	7	5	7	7	5	5^	Mixed	Excluder
Croplan Genetics RC5555	7	7	7	5	5	5	3	5^	Excluder	Excluder
Croplan Genetics RC5955	7	7	7	5	3^	5	1^	7^	Excluder	Excluder
Delta Grow 5160RR/STS	7	7	7	5	5^	1	3^	3^	Includer	Includer
Delta Grow 5300RR	7	5	7	3	3^	1	5*	7^	Includer	Includer
Delta Grow 5470STS/RR	7	7	7	5	1^	7	5*	3^	Includer	Includer
Delta Grow 5630RR	7	7	7	5	5	7	7	5^	Mixed	Mixed
Delta Grow 5830RR	7	5	7	5	3^	5	3^	5^	Excluder	Excluder
Delta Grow 5960RR	7	7	5	7	5	7	7	5^	Mixed	Mixed
Delta King DK5066	7	7	7	7	5^	1	3^	5^	Includer	Includer
Delta King DK5068	7	5	5	7	---	1	---	5^	---	Includer
Delta King DK5161	7	7	7	7	3^	1	7*	7^	Mixed	Mixed
Delta King DK52K6	5	7	7	5	3^	7	3^	7^	Excluder	Mixed
Delta King DK5366	7	7	7	5	3	7	5	7^	Mixed	Excluder
Delta King DK5368	5	7	7	5	3*	1	3^	7^	Excluder	Excluder
Delta King DK5567	7	7	7	7	5^	1	3	5^	Excluder	Excluder
Delta King DK55T6	7	7	7	5	3^	7	3^	3^	Mixed	Mixed
Deltapine DP5115RR/S	7	5	5	7	3^	1	3	7^	Includer	Includer
Deltapine DP5634RR	5	7	5	7	3^	7	5^	5^	Excluder	Excluder
Deltapine DP5915RR	7	7	7	5	3	3	5	5^	Excluder	Excluder
Dyna-Gro 32A53	7	7	7	7	1^	1	---	7^	Excluder	Excluder
Dyna-Gro 33B52	7	7	7	7	1	7	9	3^	Mixed	Mixed

2007 Full-Season Roundup Ready Soybean Update

Table 6 (continued). Nematode, Disease, and Chloride Sensitivity Ratings for MG V Soybean Cultivars⁵.

Brand/Variety	Root Knot Nematode ⁶	Soybean Cyst Nematode ⁷			Frogeye	Stem Canker	Sudden Death Syn.	Aerial Blight	Chloride Sensitivity ⁸	
		2	5	6					2006	2007
Dyna-Gro 33X55	7	7	7	5	1^	7	5^	7^	Excluder	Excluder
Dyna-Gro 34J56	5	7	7	5	3^	1	3^	5^	Mixed	Excluder
Dyna-Gro 3583	7	7	7	5	3^	7	3*	7^	Mixed	Excluder
Dyna-Gro 36N57	7	5	7	7	1^	1	3^	7^	Mixed	Excluder
FFR 5663	7	7	7	7	1^	1	1*	5^	Excluder	Excluder
HBK R5226	5	5	7	5	3^	1	7*	7^	Excluder	Excluder
HBK R5425	7	7	7	5	3^	1	3*	5^	Includer	Includer
HBK R5525	7	7	7	5	3^	1	5^	5^	Excluder	Mixed
HBK R5825	7	7	7	5	3^	3	3^	5^	Mixed	Excluder
MORSOY RT5306N	7	5	---	7	3^	3	1^	7^	Excluder	Excluder
MORSOY RT5506N	7	1	---	5	3^	1	1^	7^	Excluder	Excluder
MORSOY RT5620N	7	7	7	5	3	7	3	5^	Mixed	Excluder
MORSOY RT5903N	7	7	7	7	5	7	7	5^	Mixed	Mixed
MPV 5407nRR	7	1	5	3	1^	7	1^	5^	Includer	Includer
MPV 5505nRR	7	7	7	7	5^	7	3^	5^	Excluder	Excluder
NK BRAND S52-F2	3	3	7	7	1^	1	5*	7^	Excluder	Mixed
Pioneer 95M30	7	7	7	5	1^	3	1^	5^	Includer	Includer
Pioneer 95M50	7	7	7	5	3^	7	3^	5^	Excluder	Excluder
Progeny 5115RR	7	5	5	5	3^	1	5^	3^	Includer	Includer
Progeny 5650RR	7	7	7	5	3^	5	3*	5^	Excluder	Excluder
R01-4834RR	7	7	7	7	1^	7	---	5^	Includer	Includer
Terral TV52R14	7	7	7	5	5	1	7	7^	Excluder	Excluder
Terral TV55R15	7	7	7	7	1	7	9^	7^	Mixed	Mixed
Terral TV57R14	7	7	7	7	3^	7	3*	7^	Excluder	Mixed
Terral TV57R16	7	7	7	7	1^	1	1*	5^	Mixed	Mixed
Terral TV59R16	7	7	7	7	3^	3	1*	7^	Mixed	Excluder
USG 7515nRS	7	7	5	3	5^	1	---	7^	Includer	Includer
USG 7553nRR	7	7	7	5	7	5	5	5^	Excluder	Excluder
USG 7582nRR	7	7	5	7	5	7	7	5^	Mixed	Mixed
USG ALLEN	7	7	7	7	3^	1	5*	5^	Includer	Includer

2007 Full-Season Roundup Ready Soybean Update

Table 7. Agronomic Characteristics for MG V Soybean Cultivars.

Brand/Variety	Relative Maturity	Sulfonylurea Tolerance (STS)	Avg. Days to Maturity ⁹	Lodging Score ¹⁰	Shatter Score ¹¹	Plant Ht(in) ¹²	Flower Color	Pubescence Color	Pod Color	Hilum Color
AGS 568RR	5.6	N	139.5	1.1	1.1	32.7	Purple	Tawny	Tan	Black
AGVENTURE 50D2RR	5.0	N	132.5	2.0	1.3	36.8	Purple	Light Tawny	Brown	Black
AGVENTURE 57D7RR	5.7	N	138.3	2.1	1.1	27.0	Purple	Tawny	Tan	Black
Armor GP-533	5.3	N	136.7	1.2	1.1	34.0	White	Brown	Tan	Brown
ASGROW AG5301	5.3	N	135.2	1.3	1.3	28.5	White	Gray	Tan	Buff
ASGROW AG5501	5.5	N	137.8	1.3	1.2	31.2	Purple	Gray	Tan	Imp. Black
ASGROW AG5605	5.6	Y	137.5	1.1	1.0	29.5	Purple	Gray	Brown	Imp. Black
ASGROW AG5903	5.9	N	140.2	1.6	1.1	33.0	White	Gray	Tan	Buff
ASGROW AG5905	5.9	N	142.5	1.3	1.1	34.5	White	Gray	Tan	Buff
Croplan Genetics RC5555	5.5	N	137.2	1.3	1.1	32.8	White	Gray	Tan	Buff
Croplan Genetics RC5955	5.9	N	142.5	1.4	1.0	34.3	White	Gray	Tan	Buff
Delta Grow 5160RR/STS	5.1	Y	134.0	2.1	1.2	35.2	Purple	Gray	Brown	Black
Delta Grow 5300RR	5.3	N	133.8	1.5	1.2	31.7	White	Gray	Tan	Buff
Delta Grow 5470STS/RR	5.4	Y	140.5	1.1	1.0	34.7	White	Tawny	Tan	Black
Delta Grow 5630RR	5.6	N	142.3	1.3	1.1	30.8	White	Gray	Tan	Buff
Delta Grow 5830RR	5.8	N	143.7	1.3	1.0	29.5	White	Gray	Tan	Buff
Delta Grow 5960RR	5.9	N	142.5	1.4	1.0	31.3	White	Gray	Tan	Buff
Delta King DK5066	5.0	Y	133.3	2.0	1.1	34.2	Purple	Gray	Tan	Imp. Black
Delta King DK5068	5.0	N	134.2	2.1	1.3	36.0	White	Gray	Tan	Black
Delta King DK5161	5.1	N	134.2	2.1	1.3	26.5	White	Gray	Brown	Buff
Delta King DK52K6	5.2	N	137.2	1.2	1.1	31.2	Purple	Tawny	Tan	Black
Delta King DK5366	5.3	N	139.2	1.8	1.0	30.5	Purple	Gray	Tan	Brown
Delta King DK5368	5.3	N	135.7	1.4	1.3	31.3	Purple	Tawny	Tan	Black
Delta King DK5567	5.6	N	139.2	1.4	1.1	28.0	White	Gray	Tan	Black
Delta King DK55T6	5.5	N	140.8	1.3	1.1	32.2	White	Gray	Tan	Buff
Deltapine DP5115RR/S	5.1	Y	136.7	1.5	1.1	40.2	White	Tawny	Tan	Brown
Deltapine DP5634RR	5.6	N	137.3	1.5	1.0	31.5	White	Tawny	Tan	Black
Deltapine DP5915RR	5.9	N	143.7	1.2	1.1	34.0	White	Tawny	Tan	Black
Dyna-Gro 32A53	5.3	N	134.7	1.8	1.0	29.0	Purple	Tawny	Tan	Black
Dyna-Gro 33B52	5.2	N	137.2	2.0	1.1	31.0	White	Gray	Tan	Buff

2007 Full-Season Roundup Ready Soybean Update

Table 7 (continued). Agronomic Characteristics for MG V Soybean Cultivars.

Brand/Variety	Relative Maturity	Sulfonylurea Tolerance (STS)	Avg. Days to Maturity ⁹	Lodging Score ¹⁰	Shatter Score ¹¹	Plant Ht(in) ¹²	Flower Color	Pubescence Color	Pod Color	Hilum Color
Dyna-Gro 33X55	5.5	N	137.2	1.2	1.2	31.5	Purple	Tawny	Tan	Black
Dyna-Gro 34J56	5.6	N	137.0	1.6	1.1	36.5	Purple	Tawny	Tan	Black
Dyna-Gro 3583	5.9	N	142.7	1.3	1.1	31.8	White	Gray	Tan	---
Dyna-Gro 36N57	5.7	N	138.5	1.2	1.0	27.2	Purple	Tawny	Tan	Black
FFR 5663	5.6	N	136.8	1.4	1.0	29.2	Purple	Tawny	Tan	Black
HBK R5226	5.2	N	136.5	1.7	1.1	32.0	Purple	Tawny	Tan	Black
HBK R5425	5.4	N	140.2	1.9	1.0	40.2	White	Gray	Tan	Buff
HBK R5525	5.5	N	137.2	1.3	1.1	33.5	Purple	Tawny	Tan	Black
HBK R5825	5.8	N	142.3	1.0	1.0	30.5	Purple	Tawny	Tan	Black
MORSOY RT5306N	5.3	N	133.8	1.6	1.2	29.8	Purple	Tawny	Brown	Black
MORSOY RT5506N	5.5	N	137.0	1.2	1.1	26.3	White	Gray	Tan	Buff
MORSOY RT5620N	5.6	N	140.2	2.4	1.0	28.0	White	Gray	Tan	Buff
MORSOY RT5903N	5.9	N	141.3	1.3	1.1	30.8	White	Gray	Tan	Buff
MPV 5407nRR	5.4	N	141.2	1.2	1.1	39.7	---	---	---	---
MPV 5505nRR	5.5	N	135.0	1.1	1.0	32.5	---	---	---	---
NK BRAND S52-F2	5.2	N	135.2	1.3	1.0	29.2	Purple	Tawny	Tan	Black
Pioneer 95M30	5.3	N	134.2	1.7	1.0	32.3	White	Tawny	Tan	Black
Pioneer 95M50	5.5	Y	138.7	1.1	1.0	32.2	Purple	Gray	Tan	Imp. Black
Progeny 5115RR	5.1	N	135.3	1.8	1.2	40.3	Purple	Light Tawny	Brown	Black
Progeny 5650RR	5.6	N	143.3	1.4	1.0	30.7	White	Gray	Tan	Buff
R01-4834RR	5.5	N	140.3	1.6	1.1	30.7	White	Gray	---	Buff
Terral TV52R14	5.2	N	134.8	1.5	1.0	30.8	White	Gray	Tan	Buff
Terral TV55R15	5.5	N	138.2	1.6	1.0	34.0	Purple	Gray	Tan	Imp. Black
Terral TV57R14	5.7	N	138.0	1.9	1.1	30.2	White	Gray	Tan	Buff
Terral TV57R16	5.7	N	139.8	1.7	1.0	31.7	Purple	Tawny	Tan	Imp. Black
Terral TV59R16	5.9	N	143.3	1.2	1.1	32.2	White	Gray	Tan	Buff
USG 7515nRS	5.1	Y	132.8	2.1	1.2	35.5	Purple	Gray	Tan	Imp. Black
USG 7553nRR	5.5	Y	138.0	1.0	1.1	28.5	White	Gray	Brown	Buff
USG 7582nRR	5.8	N	142.0	1.2	1.1	27.7	White	Gray	Tan	Buff
USG ALLEN	5.6	N	143.5	1.2	1.0	31.8	White	Gray	Tan	Buff

2007 Full-Season Roundup Ready Soybean Update

Table 8. Performance of Irrigated, Roundup Ready Soybean Cultivars in Double-Crop Tests, Northeast Research and Extension Center, Keiser, AR, 2007.

Brand/Hybrid	2007	2-Year Average	Days to Maturity	Lodging Score	Shatter Score	Plant Ht(in)
-----bu./A-----						
Maturity Group IV Early (RM 4.0 to 4.6)						
ASGROW AG4403	60.0*	56.6	106	1.0	1.0	36
ASGROW AG4404	55.3	55.2	104	1.3	1.0	40
Delta Grow 4150RR	51.7	54.7	109	1.3	1.0	33
Delta Grow 4460RR	58.4*	57.9	110	1.3	1.0	41
Delta Grow 4660RR	50.3	50.6	114	2.7	1.0	39
Delta King DK4667	47.9	52.5	112	4.0	1.0	40
Deltapine DP4546RR	53.7	51.9	106	2.3	1.3	40
Dyna-Gro 37A44	54.1	56.6	111	1.0	1.3	38
Dyna-Gro 37F46	51.9	51.2	109	3.7	1.0	43
HBK R3824	50.3	40.5	107	2.0	1.0	38
MORSOY RT4485N	67.3**	59.7	105	1.7	1.0	35
Pioneer 93M90	57.9*	53.1	107	1.0	1.0	35
USG 7440nRR	59.7*	56.8	108	1.0	1.3	33
USG 7466nRR	46.5	48.8	108	3.0	1.0	42
Grand mean	55.8	▪	▪	1.6	1.1	37
LSD (5%)	10.4	▪	▪	1.0	0.6	▪
C.V. (%)	11.5	▪	▪	40.3	34.7	▪

Maturity Group IV Late (4.7 to 4.9)

ASGROW AG4703	62.4*	58.9	113	1.0	1.0	36
ASGROW AG4903	69.5**	65.4	116	1.0	1.0	35
Delta Grow 4840RR	57.0	58.5	115	4.0	1.0	39
Delta Grow 4860RR	64.8*	62.9	113	2.3	1.0	34
Delta Grow 4960RR	52.8	54.3	119	4.3	1.0	40
Delta Grow 4970RR	59.2	58.7	118	2.0	1.0	36
Delta King DK4763	60.8*	60.4	113	2.0	1.0	37
Delta King DK4866	64.2*	64.3	113	1.0	1.0	35
Delta King DK4967	66.8*	63.5	112	1.0	1.3	35
Deltapine DP4724RR	62.0*	57.3	112	4.0	1.0	39
Dyna-Gro 35Z49	63.9*	60.9	117	3.3	1.0	45
Dyna-Gro 36Y48	62.8*	60.0	116	2.7	1.0	40
HBK R4724	64.1*	60.4	114	2.3	2.3	46
HBK R4924	58.2	56.4	116	2.3	1.0	46
MORSOY RT4802N	58.3	56.1	114	3.0	1.0	38
MORSOY RT4914N	55.3	56.6	113	2.3	1.7	35
MORSOY RTS4955N	64.9*	61.8	120	1.0	1.0	37
Pioneer 94B73	47.5	51.2	111	1.0	1.0	34
Pioneer 94M80	63.7*	62.5	113	3.3	1.0	38
Progeny 4804RR	61.5*	59.2	115	2.3	1.0	36
Progeny 4949RR	66.3*	61.8	114	1.0	1.0	37
Schillinger 495RC	64.7*	61.5	120	1.0	1.0	35
Terral TV48R14	64.2*	61.0	121	1.0	1.0	39
USG 7494nRR	62.7*	58.6	113	1.0	1.0	38
Grand mean	60.2	▪	▪	1.7	1.0	37
LSD (5%)	9.3	▪	▪	0.6	0.3	▪
C.V. (%)	9.7	▪	▪	20.7	16.2	▪

2007 Full-Season Roundup Ready Soybean Update

Table 8 (continued). Performance of Irrigated, Roundup Ready Soybean Cultivars in Double-Crop Tests, Northeast Research and Extension Center, Keiser, AR, 2007.

Brand/Hybrid	2007	2-Year Average	Days to Maturity	Lodging Score	Shatter Score	Plant Ht(in)
-----bu./A-----						
Maturity Group V Early (RM 5.0 to 5.5)						
ASGROW AG5301	66.0*	62.1	124	1.3	1.0	35
ASGROW AG5501	67.4*	62.9	126	1.0	1.0	42
Croplan RC5555	60.8	54.9	126	1.3	1.0	48
Delta Grow 5160RR/STS	53.6	52.9	126	1.0	1.0	39
Delta King DK5066	59.4	56.7	129	1.7	1.0	36
Delta King DK5161	47.2	50.4	128	4.0	1.0	42
Delta King DK52K6	73.3*	68.2	125	1.0	1.0	41
Delta King DK5366	57.6	58.4	128	1.7	1.0	37
Delta King DK5567	63.6	59.2	128	1.0	1.0	37
Dyna-Gro 33B52	54.3	56.8	126	2.0	1.0	39
Dyna-Gro 33X55	73.8**	67.8	132	1.0	1.0	40
FFR 5663	71.4*	68.5	127	1.7	1.0	35
HBK R5525	69.3*	61.3	122	2.3	1.0	41
Pioneer 95M50	60.6	58.5	125	1.7	1.0	35
Progeny 5115RR	57.9	57.1	128	1.7	1.0	42
R01-4834RR	68.5*	65.2	131	1.7	1.0	42
Terral TV52R14	53.0	53.7	129	2.0	1.0	42
Terral TV55R15	63.0	62.1	127	1.3	1.0	32
USG 7515nRS	64.1	59.4	128	1.3	1.0	37
USG 7553nRS	69.4*	65.3	126	1.0	1.0	43
Grand mean	62.3	▪	▪	1.4	1.0	38
LSD (5%)	9.4	▪	▪	0.8	0.1	▪
C.V. (%)	9.4	▪	▪	37.4	6.4	▪

Maturity Group V Late (RM 5.6 to 5.9)

ASGROW AG5605	64.7*	62.4	131	1.0	1.0	39
ASGROW AG5903	64.6*	63.2	132	2.7	1.0	42
ASGROW AG5905	66.7*	61.7	135	1.7	1.0	44
Delta Grow 5630RR	53.3	54.3	132	1.7	1.0	40
Delta Grow 5830RR	57.8*	54.4	136	1.3	1.0	33
Delta Grow 5960RR	62.1*	60.9	134	1.0	1.0	36
Delta King DK55T6	69.1*	61.6	135	1.0	1.0	41
Deltapine DP5634RR	64.8*	62.7	132	1.7	1.0	46
Deltapine DP5915RR	72.0**	67.0	131	1.0	1.0	46
Dyna-Gro 3583	56.9*	57.2	136	1.3	1.0	39
Dyna-Gro 36N57	62.1*	62.7	130	2.0	1.0	37
HBK R5825	61.9*	60.2	131	1.0	1.0	32
MORSOY RT5620N	66.5*	61.3	133	2.7	1.0	39
MORSOY RT5903N	61.4*	60.7	136	1.3	1.0	41
Terral TV57R14	57.8*	59.1	134	3.0	1.0	46
USG 7582nRR	68.4*	62.9	135	1.3	1.0	41
Grand mean	65.6	▪	▪	1.5	1.0	40
LSD (5%)	16.7	▪	▪	0.9	0.2	▪
C.V. (%)	15.5	▪	▪	36.8	9.5	▪

2007 Full-Season Roundup Ready Soybean Update

KEY CODES FOR TABLES 3, 4, 6, & 7

“*” Denotes Seed Company Data

“^” Denotes Limited Data Available

1. Only maturity Group V Tests were conducted at Kibler.
2. The “Clay Average” yield includes yields from Keiser Irrigated, Keiser Nonirrigated and Rohwer locations.
3. The “Silt Loam Average” yield includes yields from Marianna, Stuttgart and Kibler locations.
4. The “All Location Average” yield includes yields from all locations.
5. 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>

6. 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.)
7. 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.
8. 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.
9. 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.
10. 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.
11. 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.
12. Soybean plant height reported in inches and is an average of all locations.

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