



Cooperative Extension Service

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Soybean Update

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2006 Soybean Performance Results for Early Soybean Production Systems (ESPS) 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 2005 and 2006 University of Arkansas soybean variety test 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 **Table 3**. Varieties are considered adapted to Arkansas conditions based primarily on their yield performance across the different geographical regions of the state. The location, soil type, and cultural information for each of the 2006 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.

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SOYVA, an Extension computerized variety selection program, can assist in making these field-specific variety selection decisions. Presently **SOYVA** sorts through over 150 adapted soybean varieties in Maturity Groups (MG) IV-VI 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 for the different production systems. Contact your county Extension agent for details concerning **SOYVA**. Additional information is available at the Extension web site (<http://www.aragriculture.org/soybean.htm>); click on the **Computer Programs** link.

ADAPTED SOYBEAN VARIETIES FOR EARLY SOYBEAN PRODUCTION

Generally, varieties within Maturity Group (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.

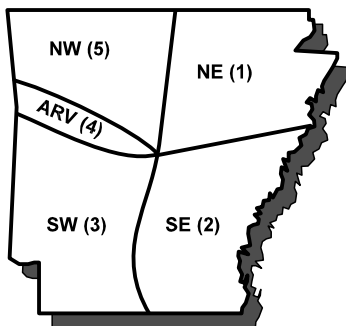


Figure 1. Area of Adaptation for Soybean Maturity Groups for All Production Systems

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

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

Table 1. Location, Soil Type, and Cultural Information of Early Planted-Arkansas Soybean Performance Trials – 2006

Location/Type	Soil Type	Planting Date	Row Width	Harvest Date		Previous Crop
				Early EPT	Late EPT	
Keiser/NEREC	Sharkey Clay	Early: 4/13/06 Late: 5/15/06	15"	8/31-9/05/06	10/02-10/09/06	Cotton
Weiner/Poinsett Co.	Henry Silt Loam	5/17/06	15"	9/26/06	9/27/06	Soybean
Marianna/CBES	Calloway Silt Loam	4/18/06	30"	9/5-9/21/06	9/21-9/22/06	Soybean
Rohwer/SEREC	Desha Silt Loam	4/14/06	19"	8/21-9/01/06	9/06-9/11/05	Soybean

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

HOW TO MAKE YIELD COMPARISONS USING THE FOLLOWING TABLES:

The LSD (.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 indicates that there is no statistical difference between that varietal mean and the highest yielding varietal mean “” at that test location utilizing the appropriate LSD (.05) value.***

The tests at Keiser were first planted on April 3. A planter malfunction resulted in inadequate stands for the Late MG4s and the MG5s. An attempt was made to replant these two groups on May 3, but a heavy rain during planting caused them to be abandoned. The third planting, on May 15, was successful.

At the Poinsett County location, wet weather delayed planting until May 17.

Flower, Pubescence, and Hilum colors normally in Table 4 are not included this year and can be made available upon request.

Table 2. Yields of Early Planted, Roundup Ready Soybean Cultivars at All Locations, 2006					
	Keiser	Marianna	Rohwer	Poinsett County	
Brand/Hybrid	Irrigated	Irrigated	Irrigated	Irrigated	Average
-----bu./A-----					
Maturity Group III (RM 3.5 to 3.9)					
ASGROW AG 3802	57.7	62.0*	52.0	61.6	58.3
ASGROW AG 3905	72.5**	63.7*	58.6	63.9*	64.7
ASGROW AG 3906	57.1	63.7*	65.8	67.0*	63.4
DEKALB DKB 36-52	61.0	58.9*	60.7	63.1*	60.9
Delta Grow 3950RR	63.0	64.0*	67.9*	73.3**	67.1
Delta King 3964	69.0*	59.2*	57.6	65.6*	62.9
Delta King 3967	61.8	59.9*	65.1*	59.6	61.6
Delta King 3968	66.4*	64.5*	58.8	64.5*	63.6
Deltapine DP3861RR	59.3	61.1*	63.0*	61.5	61.2
Dyna Gro 31J39	67.6*	63.7*	65.3*	60.3	64.2
Dyna Gro 3373	49.2	47.1	48.1	61.4	51.5
MorSoy RT 3883N	68.8*	63.0*	69.5**	61.6	65.7
Pioneer 93M90	59.5	59.3*	68.3*	66.1*	63.3
Progeny 3900	59.3	62.7*	66.8*	66.6*	63.9
Terral TV39RS31	50.1	65.8**	59.9	71.2*	61.8
Grand mean	63.8	65.1	64.7	63.8	64.4
LSD (5%)	8.1	10.0	7.4	10.5	•
C.V. (%)	9.1	10.9	8.1	11.7	•
Maturity Group IV Early (RM 4.0 to 4.6)					
ASGROW AG 4403	70.4	82.8*	63.8	60.2	69.3
ASGROW AG 4404	54.3	73.2	52.2	70.6*	62.6
Croplan RC4444	75.8	83.8*	67.0*	67.4*	73.5
DEKALB DKB 46-51	58.8	69.0	57.3	77.4**	65.6
Delta Grow 4150RR	64.0	75.3	62.3	63.3	66.2
Delta Grow 4460RR	60.1	78.2	62.3	64.9*	66.4
Delta King 4461	81.4*	87.2**	66.5*	70.8*	76.5
Deltapine DP4331RR	75.3	81.2*	65.2*	62.8	71.1
Deltapine DP4546RR	83.6*	73.0	62.7	75.0*	73.6
Dyna Gro 35B40	60.3	69.5	61.3	60.5	62.9
FFR 4545	77.7	78.5*	69.6**	64.8*	72.7
HBK R4623	75.0	65.3	62.9	69.4*	68.2
MorSoy RT 4480N	75.6	79.0*	60.8	66.5*	70.5
MorSoy RT 4485N	63.1	79.1*	61.0	75.0*	69.6
MorSoy RT 4665N	88.3**	65.3	67.2*	66.8*	71.9
Progeny 4401	76.6	79.2*	67.4*	70.9*	73.5
Progeny 4405	56.5	71.8	62.8	77.1*	67.1
Terral TV43R56	58.0	70.5	66.3*	63.1	64.5
Terral TV46R15	72.6	82.6*	61.7	74.4*	72.8
Grand mean	68.4	74.2	62.1	69.1	68.5
LSD (5%)	9.1	8.9	5.4	12.7	•
C.V. (%)	9.4	8.5	6.3	13.2	•

Table 2. Yields of Early Planted, Roundup Ready Soybean Cultivars at All Locations, 2006					
	Keiser	Marianna	Rohwer	Poinsett County	
Brand/Hybrid	Irrigated	Irrigated	Irrigated	Irrigated	Average
-----bu./A-----					
Maturity Group IV Late (RM 4.7 to 4.9)					
ASGROW AG 4703	74.2	79.3*	63.6	74.2*	72.8
ASGROW AG 4801	83.7*	77.0	62.3	68.7	72.9
ASGROW AG 4903	82.7*	80.3*	69.0*	73.0*	76.3
Croplan RC4842	83.0*	73.1	57.3	77.4*	72.7
Croplan RC4955	86.3*	66.1	63.0	67.9	70.8
Delta Grow 4840RR	78.0	67.4	61.7	76.0*	70.8
Delta Grow 4860RR	85.9*	72.8	65.9	68.9	73.4
Delta Grow 4960RR	89.1*	71.2	63.2	72.6*	74.0
Delta Grow 4970RR	84.0*	77.4*	66.2	69.9	74.4
Delta King 4763	81.3	68.5	60.1	73.4*	70.8
Delta King 4866	85.5*	85.8**	68.5*	66.2	76.5
Delta King 4967	82.6*	71.9	61.1	80.9**	74.1
Dyna Gro 3481	81.8*	76.2	63.8	69.7	72.9
Dyna Gro 36M49	86.7*	65.4	60.2	71.7*	71.0
HBK R4724	84.1*	77.4*	62.9	71.0	73.9
HBK R4924	85.9*	82.3*	72.4**	72.6*	78.3
MorSoy RT 4802N	84.7*	72.4	58.7	73.6*	72.4
MorSoy RT 4914N	80.4*	81.6*	66.2	77.3*	76.4
MorSoy RT 4993N	90.9**	72.2	60.8	67.1	72.8
MorSoy RTS 4955N	78.6	84.1*	64.3	70.5	74.4
Pioneer 94B73	79.0	80.3*	54.4	64.8	69.6
Pioneer 94M80	81.4*	71.4	62.4	73.4*	72.2
Progeny 4804	83.6*	70.6	62.1	69.4	71.4
Progeny 4805	79.9	81.2*	67.7*	67.4	74.1
Progeny 4949	80.0	76.7	69.2*	68.1	73.5
Schillinger 495RC	78.3	68.5	64.9	74.3*	71.5
Terral TV48R14	75.2	73.2	63.7	77.1*	72.3
Grand mean	82.0	76.1	62.9	71.8	73.2
LSD (5%)	9.5	8.7	5.8	9.3	•
C.V. (%)	8.3	8.3	6.7	9.3	•
Maturity Group V (RM 5.0 to 5.9)					
Croplan RC5222	76.0*	74.2	69.1*	70.8*	72.5
Delta Grow 5160RR	67.8*	85.3**	62.3	63.2*	69.7
Delta King 5066	70.5*	84.9*	59.5	70.6*	71.4
Delta King 5161	78.8**	68.9	57.8	64.7*	67.6
Delta King 5366	75.7*	65.0	46.3	65.2*	63.1
Dyna Gro 33B52	74.7*	70.9	65.4*	60.5*	67.9
Dyna Gro 3535	69.6*	64.5	51.0	72.4**	64.4
Progeny 5115	70.3*	74.5	60.1	58.6	65.9
Progeny 5250	70.3*	70.6	68.8**	61.2*	67.7
Grand mean	73.2	74.2	59.4	65.4	68.1
LSD (5%)	8.0	7.5	6.2	12.6	•
C.V. (%)	7.7	7.1	7.3	13.6	•

Table 3. Disease, Nematode, and Propanil Sensitivity Ratings for Selected MG III, IV, & V Soybean Cultivars, 2006.

Variety	Disease / Nematode Ratings ¹							Prop- ⁴ anil Sens- itivity	Chloride ⁵ Sensitivity Ratings	
	Root ² Knot Nema- tode	Soybean ³ Cyst Nematode Race			Frog- eye Leaf- Spot	Stem Can- ker	Sudden Death Syn.		2006	2005
		2	5	6						
ASGROW AG 3802	---	---	---	---	---	1	---	R	INC	INC
ASGROW AG 3905	---	---	---	---	---	7	---	R	INC	INC
ASGROW AG 3906	---	---	---	---	---	1	---	R	INC	INC
ASGROW AG 4703	7	7	7	7	5^	3	3*	R	INC	INC
ASGROW AG 4801	7	7	7	7	1	7	5^	R	INC	INC
ASGROW AG 4903	7	7	7	7	7	7	7^	MR	INC	INC
ASGROW AG4403	5	7	7	7	7	5	3*	R	MIXED	MIXED
ASGROW AG4404	7	7	7	5	7	5	3*	R	INC	MIXED
Croplan RC4444	---	---	---	---	---	5	3*	R	INC	INC
Croplan RC4842	---	---	---	---	---	5	1*	R	INC	INC
Croplan RC4955	---	---	---	---	---	1	1*	R	INC	INC
Croplan RC5222	7	7	7	3	---	1	---	R	EXC	EXC
DEKALB DKB 36-52	---	---	---	---	---	1	---	R	MIXED	EXC
Dekalb DKB 46-51	7	7	7	5	7^	1	5*	R	INC	INC
Delta Grow 3950RR	---	---	---	---	---	---	---	R	INC	INC
Delta Grow 4150RR	7	7	7	3	5^	1	3*	R	EXC	EXC
Delta Grow 4460RR	5	7	7	5	3^	1	3*	R	INC	INC
Delta Grow 4840RR	5	7	5	5	5	3	3*	R	INC	INC
Delta Grow 4860RR	7	7	7	7	3	1	5	R	INC	INC
Delta Grow 4960RR	5	7	7	7	3	1	7	MR	INC	INC
Delta Grow 4970RR	7	7	7	7	1	3	7	R	INC	INC
Delta Grow 5160RR	7	7	7	3	5^	1	3^	R	INC	INC
Delta King 3964	---	---	---	---	---	3	---	R	MIXED	MIXED
Delta King 3967	---	---	---	---	---	3	---	R	INC	INC
Delta King 3968	---	---	---	---	---	1	---	R	EXC	EXC
Delta King 4461	5	7	7	7	7	3	3	R	INC	INC
Delta King 4763	7	5	7	5	7	7	5	R	INC	INC
Delta King 4866	7	7	7	7	5	7	3	R	MIXED	IMIXED
Delta King 4967	7	7	7	7	3	1	7	R	INC	INC
Delta King 5066	7	7	7	---	5^	1	3^	R	INC	INC
Delta King 5161	7	7	7	7	3	1	9	R	MIXED	MIXED
Delta King 5366	7	7	7	5	3	7	5	R	MIXED	EXC

Notes:

Table 3. Disease, Nematode, and Propanil Sensitivity Ratings for Selected MG III, IV, & V Soybean Cultivars, 2006 (Continued).

Variety	Disease / Nematode Ratings ¹							Prop- ⁴ anil Sensi- tivity	Chloride ⁵ Sensitivity Ratings	
	Root ² Knot Nema- tode	Soybean ³ Cyst Nematode Race			Frog- eye Leaf- Spot	Stem Can- ker	Sudden Death Syn.		2006	2005
		2	5	6						
Deltapine DP3861RR	---	---	---	---	---	1	---	R	INC	INC
Deltapine DP4331RR	5	7	7	7	7	5	3*	R	INC	INC
Deltapine DP4546RR	5	7	7	3	3	3	7	R	EXC	EXC
Dyna Gro 31J39	---	---	---	---	---	1	---	R	INC	INC
Dyna Gro 3373	---	---	---	---	---	3	---	R	MIXED	MIXED
Dyna Gro 33B52	7	7	7	7	1	3	9	R	INC	INC
Dyna Gro 3481	7	7	7	5	3^	1	3*	R	EXC	EXC
Dyna Gro 3535	5	7	7	3	3^	7	3*	R	EXC	EXC
Dyna Gro 35B40	7	7	7	7	3^	1	1*	R	INC	INC
Dyna Gro 36M49	7	7	7	5	5	3	5	R	EXC	EXC
FFR 4545RR	---	---	---	---	---	5	3*	R	INC	INC
HBK R4623	7	7	7	5	1	1	3*	R	INC	INC
HBK R4724	5	7	7	7	5	1	5*	R	MIXED	MIXED
HBK R4924	7	7	7	3	5	1	3	R	INC	INC
MorSoy RT 3883N	---	---	---	---	---	1	---	R	INC	INC
MorSoy RT 4480N	5	7	5	7	7	5	3*	R	INC	INC
MorSoy RT 4485N	7	7	5	3	3^	1	3*	R	INC	INC
MorSoy RT 4665N	5	7	7	7	5	1	3*	R	INC	INC
MorSoy RT 4802N	7	7	7	5	3^	1	3*	R	INC	INC
MorSoy RT 4914N	7	7	7	5	1^	3	1*	R	INC	INC
MorSoy RT 4993N	7	5	7	5	5	1	3	R	INC	INC
MorSoy RTS 4955N	5	5	7	5	5^	1	3*	R	INC	INC
Pioneer 93M90	---	---	---	---	---	---	---	R	INC	INC
Pioneer 94B73	7	7	7	7	1	1	5*	R	INC	INC
Pioneer 94M80	7	7	7	5	1^	1	1*	R	EXC	EXC
Progeny 3900	---	---	---	---	---	1	---	R	INC	INC
Progeny 4401	---	---	---	---	7	---	3*	R	INC	INC
Progeny 4405	---	---	---	---	---	---	1*	R	INC	INC
Progeny 4804	5	7	7	5	5	1	3^	R	INC	INC
Progeny 4805	7	5	7	7	3^	1	3*	R	INC	INC
Progeny 4949	7	7	7	7	1	1	7	MR	INC	INC
Progeny 5115	7	5	5	3	3^	1	5^	R	INC	INC
Progeny 5250	7	7	7	3	3	1	7	R	EXC	EXC
Schillinger 495RC	7	7	7	3	1^	1	---	R	INC	INC
Terral TV39RS31	---	---	---	---	---	1	---	R	INC	INC
Terral TV43R56	7	7	7	5	3^	5	3*	R	MIXED	MIXED
Terral TV46R15	7	7	7	7	1^	1	---	R	INC	INC
Terral TV48R14	7	7	7	7	1*	3	3*	R	INC	INC

Table 4. Agronomic Characteristics for Selected MG III, IV, & V Soybean Cultivars, 2006.

			Plant ⁶			Avg. Days ⁹
	Herbicide	Rel.	Ht.	Lodg- ⁷	Shatter ⁸	To
Brand/Hybrid	Tolerance	Mat.	(inches)	ing	Score	Maturity
ASGROW AG 3802	RR	3.8	25.3	1.1	1.1	108
ASGROW AG 3905	RR	3.9	28.8	1.1	1.0	115
ASGROW AG 3906	RR	3.9	24.0	1.0	1.1	114
ASGROW AG 4403	RR	4.4	30.0	1.8	1.3	119
ASGROW AG 4404	RR	4.4	26.0	1.3	1.3	115
ASGROW AG 4703	RR	4.7	35.8	2.0	1.0	128
ASGROW AG 4801	RR	4.8	33.3	1.3	1.1	129
ASGROW AG 4903	RR	4.9	36.0	1.9	1.0	129
Croplan RC4444	RR	4.4	29.5	1.3	1.4	124
Croplan RC4842	RR	4.8	34.5	1.8	1.0	129
Croplan RC4955	RR	4.9	37.8	2.0	1.1	136
Croplan RC5222	RR	5.2	37.8	1.7	1.0	142
DEKALB DKB 36-52	RR	3.6	24.5	1.0	1.0	108
DEKALB DKB 46-51	RR	4.6	27.3	1.7	1.1	117
Delta Grow 3950RR	RR	3.9	28.0	1.1	1.0	113
Delta Grow 4150RR	RR	4.1	29.8	1.8	1.2	121
Delta Grow 4460RR	RR	4.4	30.5	1.9	1.8	117
Delta Grow 4840RR	RR	4.8	32.8	2.4	1.0	132
Delta Grow 4860RR	RR	4.9	35.5	1.6	1.1	128
Delta Grow 4960RR	RR	4.9	32.0	1.4	1.1	136
Delta Grow 4970RR	RR	4.9	38.3	2.5	1.0	134
Delta Grow 5160RR	RR	5.1	29.5	2.0	1.0	136
Delta King 3964	RR	3.9	27.3	1.1	1.0	112
Delta King 3967	RR	3.9	27.0	1.3	1.0	112
Delta King 3968	RR	3.9	24.5	1.0	1.2	113
Delta King 4461	RR	4.4	31.5	1.5	1.2	123
Delta King 4763	RR	4.7	35.3	2.2	1.0	125
Delta King 4866	RR	4.8	34.0	2.3	1.1	135
Delta King 4967	RR	4.9	36.3	2.1	1.1	126
Delta King 5066	RR	5.0	30.8	1.9	1.0	137
Delta King 5161	RR	5.1	33.3	1.8	1.0	141
Delta King 5366	RR	5.3	32.5	1.6	1.1	148

Notes:

Table 4. Agronomic Characteristics for Selected MG III, IV, & V Soybean Cultivars, 2006.

			Plant ⁶			Avg. Days ⁹
	Herbicide	Rel.	Ht.	Lodg- 7	Shatter ⁸	To
Brand/Hybrid	Tolerance	Mat.	(inches)	ing	Score	Maturity
Deltapine DP3861RR	RR	3.8	23.8	1.2	1.0	108
Deltapine DP4331RR	RR	4.3	31.3	1.4	1.3	122
Deltapine DP4546RR	RR	4.5	32.3	2.0	1.2	126
Dyna-Gro 31J39	RR	3.9	28.3	1.1	1.0	113
Dyna-Gro 3373	RR	3.7	21.5	1.0	1.4	107
Dyna-Gro 33B52	RR	5.2	33.0	1.2	1.0	142
Dyna-Gro 3481	RR	4.8	36.0	2.0	1.1	128
Dyna-Gro 3535	RR	5.3	31.3	1.3	1.0	149
Dyna-Gro 35B40	RR	4.0	27.5	1.8	1.8	119
Dyna-Gro 36M49	RR	4.9	33.8	2.1	1.0	127
FFR 4545	RR	4.5	28.8	1.3	1.1	129
HBK R4623	RR	4.5	33.8	1.7	1.2	118
HBK R4724	RR	4.7	37.0	1.7	1.3	130
HBK R4924	RR	4.9	38.3	1.9	1.1	135
MorSoy RT 3883N	RR	3.8	25.8	1.2	1.0	114
MorSoy RT 4480N	RR	4.4	30.5	1.3	1.2	122
MorSoy RT 4485N	RR	4.4	32.3	2.2	1.8	117
MorSoy RT 4665N	RR	4.6	31.8	2.6	1.2	121
MorSoy RT 4802N	RR	4.8	33.3	1.4	1.1	126
MorSoy RT 4914N	RR	4.9	37.3	2.8	1.0	135
MorSoy RT 4993N	RR	4.9	33.3	2.4	1.1	129
MorSoy RTS 4955N	RR	4.9	36.3	1.8	1.0	134
Pioneer 93M90	RR	3.9	26.8	1.0	1.9	110
Pioneer 94B73	RR	4.7	39.0	2.2	1.2	130
Pioneer 94M80	RR	4.8	37.3	2.1	1.2	129
Progeny 3900	RR	3.9	26.8	1.0	1.0	112
Progeny 4401	RR	4.4	31.5	1.5	1.4	122
Progeny 4405	RR	4.4	31.3	2.3	1.5	116
Progeny 4804	RR	4.8	35.8	2.2	1.1	130
Progeny 4805	RR	4.8	37.5	1.9	1.1	136
Progeny 4949	RR	4.9	34.5	2.4	1.0	135
Progeny 5115	RR	5.1	36.5	2.0	1.2	138
Progeny 5250	RR	5.2	32.8	1.0	1.0	142
Schillinger 495RC	RR	4.9	36.8	2.4	1.2	133
Terral TV39RS31	RR	3.9	26.8	1.0	1.1	114
Terral TV43R56	RR	4.3	30.8	1.8	1.4	119
Terral TV46R15	RR	4.6	33.3	2.0	1.4	122
Terral TV48R14	RR	4.8	40.5	2.2	1.1	130

KEY CODES FOR TABLES 3 & 4

* Denotes Seed Company Data

^Denotes Limited Data Available

1. 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>

2. 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).

3. 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.

4. Propanil (Propanil, Stam M4, etc.) injury at drift rates (0.25X rate) applied to V4-V5 soybeans. Ratings represent injury 24 days after application where **R** = < 10% injury, **MR** = 10-20% injury, **MS** = 20-30% injury, and **S** = > 30% injury.

5. Chloride Sensitivity: **INC** - Includer **EXC** - Excluder **MIXED** – Mixed population (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.)

6. Soybean plant height reported in inches and is an average of all locations.

7. 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.

8. 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.

9. Days to maturity represent the average (of all locations) number of days from planting until 80% of the soybeans in the plot were thought to be mature.

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