

2018 Soybean Performance Results for Early Planted and Full-Season Production Systems in Arkansas

Dr. Jeremy Ross
Extension Agronomist - Soybeans

John Carlin, *Program Director, Variety Testing*

Joshua A. Still, *Program Technician, Variety Testing*

Richard Bond
Program Associate, Variety Testing

Dr. Jason Norsworthy,
Professor

Dr. Terrence L. Kirkpatrick
Extension Plant Pathologist

Dr. Travis Faske
Extension Plant Pathologist

Michael Emerson
Plant Pathology Program Associate

Matthew Conatser
Arkansas State University

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. This information listed in this publication is largely derived from the University of Arkansas System Division of Agriculture Soybean Performance Trials and screening programs, and is provided as an aid in variety selection.

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 14 and 15**. Varieties are considered adapted to Arkansas conditions based primarily on their yield performance across the different geographical regions of Arkansas. The location, soil description, and cultural information for each of the 2018 soybean Early-Planted and Full-Season performance trials are found in **Tables 1 and 2**.

All varieties listed in this publication have been tested in the University of Arkansas System, Division of Agriculture Soybean Performance Trials.

Soybean variety performance may vary from year to year, and two-year 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.

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 yield 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 MG's: III – very early maturity; IV – early maturity; and V – mid-season maturity.

ABOUT THIS PUBLICATION

Tables 1 and 2 consist of cultural information that pertains to the 2018 University of Arkansas System Division of Agriculture Soybean Performance Trials (<http://arkansas-variety-testing.uark.edu>). **Tables 3 through 13** contain varietal yield information for 2015, 2016 and 2017, 2018. **Tables 14 and 15** contain the many varietal characteristics of those varieties designated as being adapted to the Arkansas soybean production environment.

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

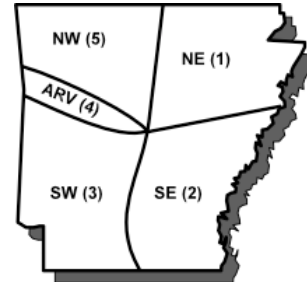


Figure 1. Area of Adaptation for Soybean Maturity Groups for All Production Systems

- 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

Acknowledgements are extended to the host of University of Arkansas System Division of Agriculture workers for their significant contributions to this update.

Table 1. Location, Soil Description, and Cultural Information of the Early Planted Soybean Performance Trials, 2018.

Location	Soil Description	Planting Date	Row Width	Harvest Date by MG					Previous Crop
				RM 3.5-4.2	RM 4.3-4.5	RM 4.6-4.7	RM 4.8-4.9	RM 5.0-5.3	
Keiser – Irrigated	Sharkey clay	5/2/18	38" twin-row	9/19/18	9/20/18	10/4/18	10/4/18	10/5/18	Cotton
Marianna – Irrigated	Calloway silt loam	4/20/18	38"	9/20/18	9/20/18	9/20/18	10/5/18	10/5/18	Cotton
Poinsett County – Irrigated	Hilleman silt loam	5/2/18	7.5"	10/2/18	10/2/18	10/2/18	10/3/18	10/3/18	Soybean
Rohwer – Irrigated	Desha silt loam	5/2/18	38" twin-row	9/11/18	9/18/18	9/18/18	9/20/18	9/21/18	Corn

Table 2. Location, Soil Description, and Cultural Information of the Full-Season & Double-Crop Soybean Performance Trials, 2018.

Location	Soil Description	Planting Date	Row Width	Harvest Date by MG						Previous Crop
				RM 3.5-4.2	RM 4.3-4.5	RM 4.6-4.7	RM 4.8-4.9	RM 5.0-5.4	RM 5.5-5.9	
Keiser – Irrigated	Sharkey clay	6/5/18	38"	10/5/18	10/5/18	10/8/18	10/8/18	10/24/18	10/24/18	Corn
Marianna – Irrigated	Calloway silt loam	5/9/18	38"	9/20/18	10/5/18	10/5/18	10/5/18	10/5/18	10/5/18	Cotton
Rohwer – Irrigated	Desha silt loam	5/15/18	38" twin-row	9/20/18	9/20/18	9/21/18	10/3/18	10/3/18	10/8/18	Corn
Rohwer (Late Planted) - Irrigated	Desha silt loam	6/5/18	38" twin-row	9/21/18	10/8/18	10/8/18	10/8/18	10/11/18	10/11/18	Corn
Kibler – Irrigated	Roxanna silt loam	6/1/18	36"	10/29/18	10/29/18	10/29/18	10/30/18	11/15/18	11/15/18	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: “Shading” 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.

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Table 3. Yield (bu/ac) of Relative Maturity 3.5 - 4.2 Soybean Varieties and Experimental Lines in the Early Planted Tests at All Locations, 2018.^{1,2}

Variety/Experimental Line	Herbicide Technology	2018 Keiser	2-Year ³ Average Keiser	3-Year ⁴ Average Keiser	2018 Marianna	2-Year ³ Average Marianna	3-Year ⁴ Average Marianna	2018 Poinsett Co.	2-Year ⁵ Average Poinsett Co.	3-Year ⁶ Average Poinsett Co.	2018 Rohwer	2-Year ⁵ Average Rohwer	3-Year ⁶ Average Rohwer	All Location Avg.
(bu./ac)														
Relative Maturity 3.5 to 4.2; 2018, 2- and 3-Year Average Yields														
Xtend Only														
Armor 39-D39	RR2X	75.8	•	•	59.3	•	•	63.1	•	•	68.9	•	•	66.8
Armor 42-D27	RR2X	69.4	•	•	58.4	•	•	65.9	•	•	70.1	•	•	65.9
Armor X40D	RR2X	78.7	•	•	58.7	•	•	53.7	•	•	49.4	•	•	60.1
Armor X41D	RR2X	72.1	•	•	66.2	•	•	67.0	•	•	65.4	•	•	67.7
Asgrow AG 42X9	RR2X	83.5	•	•	72.5	•	•	72.7	•	•	55.6	•	•	71.1
Dyna-Gro S41XS98	RR2X/STS	90.7	•	•	68.0	•	•	59.7	•	•	75.8	•	•	73.5
NK S39-R9X	RR2X	83.3	•	•	66.7	•	•	73.4	•	•	63.2	•	•	71.6
Progeny P4255RX	RR2X	83.4	•	•	72.1	•	•	73.0	76.3	•	72.1	73.3	•	75.1
GRAND MEAN		79.6	•	•	65.2	•	•	—	—	—	—	—	—	•
LSD (5%)		16.2	•	•	6.7	•	•	—	—	—	—	—	—	•
C.V.		16.4	•	•	8.4	•	•	—	—	—	—	—	—	•
Non-Xtend														
Credenz CZ 4222 LL	LL	86.3	•	•	73.7	•	•	61.3	•	•	66.2	•	•	71.9
Progeny P4247LL	LL	88.8	82.7	•	85.0	77.0	•	73.3	76.3	73.7	66.2	69.0	64.6	78.3
GRAND MEAN		87.5	•	•	79.4	•	•	66.3	•	•	65.3	•	•	•
LSD (5%)		19.6	•	•	7.6	•	•	6.4	•	•	6.2	•	•	•
C.V.		13.5	•	•	5.7	•	•	8.0	•	•	7.9	•	•	•

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Table 4. Yield (bu/ac) of Relative Maturity 4.3 – 4.5 Soybean Varieties and Experimental Lines in the Early Planted Tests at All Locations, 2018.^{1,2}

Variety/Experimental Line	Herbicide Technology	2018 Keiser	2-Year ³ Average Keiser	3-Year ⁴ Average Keiser	2018 Marianna	2-Year ³ Average Marianna	3-Year ⁴ Average Marianna	2018 Poinsett Co.	2-Year ⁵ Average Poinsett Co.	3-Year ⁶ Average Poinsett Co.	2018 Rohwer	2-Year ⁵ Average Rohwer	3-Year ⁶ Average Rohwer	All Location Avg.
(bu./ac)														
Relative Maturity 4.3 to 4.5; 2018, 2- and 3-Year Average Yields														
Xtend Only														
AgriGold G4440RX	RR2X	89.1	•	•	67.7	•	•	85.5	83.6	•	62.7	71.1	•	76.2
AgriGold G4579RX	RR2X	91.9	•	•	78.5	•	•	84.2	•	•	66.5	•	•	80.2
Armor 45-D43	RR2X	98.2	•	•	75.4	•	•	87.3	•	•	58.4	•	•	79.8
Armor 45-D50	RR2X	93.1	•	•	83.5	•	•	89.2	•	•	64.2	•	•	82.5
Armor X44D36	RR2X	86.8	•	•	69.7	•	•	70.4	•	•	45.7	•	•	68.1
Asgrow AG 43X8	RR2X	83.5	•	•	64.2	•	•	83.9	81.1	•	73.1	78.5	•	76.2
Asgrow AG 45X8	RR2X	97.3	•	•	66.2	•	•	78.4	83.1	•	77.2	78.2	•	79.8
Delta Grow DG44X25	RR2X	99.2	•	•	65.3	•	•	81.2	•	•	72.1	•	•	79.4
Delta Grow DG44X50	RR2X	88.9	•	•	73.6	•	•	86.1	•	•	51.5	•	•	75.0
Delta Grow DG45X35	RR2X	83.7	•	•	73.3	•	•	76.9	•	•	70.4	•	•	76.1
Dyna-Gro S43XS27	RR2X/STS	83.9	•	•	63.8	•	•	79.9	•	•	69.1	•	•	74.2
Dyna-Gro S45XS37	RR2X/STS	95.4	84.2	•	66.3	69.3	•	83.5	85.4	84.0	72.2	75.9	67.4	79.3
Dyna-Gro SX18845XT	RR2X	90.5	•	•	76.0	•	•	90.6	•	•	63.3	•	•	80.1
Local Seed LS4487XS	RR2X	84.7	•	•	66.9	•	•	75.1	•	•	72.7	•	•	74.9
Local Seed LS4565XS	RR2X/STS	89.1	•	•	71.6	•	•	81.1	•	•	69.9	•	•	77.9
Local Seed LS4583X	RR2X	90.1	•	•	82.8	•	•	83.3	•	•	53.4	•	•	77.4
Mission A4447NSXR2	RR2X	92.9	•	•	72.6	•	•	79.3	•	•	71.9	•	•	79.2
NK S43-V3X	RR2X	96.0	•	•	70.0	•	•	71.6	•	•	69.2	•	•	76.7
NK S45-J3X	RR2X	85.4	•	•	65.3	•	•	76.6	•	•	69.3	•	•	74.2
NK S45-K5X	RR2X	88.3	•	•	71.9	•	•	77.4	•	•	76.2	•	•	78.4
NK S45-Z5XS	RR2X/STS	96.3	•	•	70.1	•	•	76.2	•	•	80.8	•	•	80.8
Progeny P4318RX	RR2X	78.7	•	•	67.1	•	•	74.4	•	•	63.9	•	•	71.0
Progeny P4444RXS	RR2X/STS	94.9	•	•	73.5	•	•	84.2	81.6	•	63.0	67.6	•	78.9
Progeny P4570RXS	RR2X/STS	92.9	•	•	74.9	•	•	80.9	•	•	75.4	•	•	81.0
GRAND MEAN		90.4	•	•	71.2	•	•	—	—	—	—	—	—	•
LSD (5%)		8.5	•	•	5.9	•	•	—	—	—	—	—	—	•
C.V.		8.0	•	•	7.0	•	•	—	—	—	—	—	—	•

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Table 4 (Continued). Yield (bu/ac) of Relative Maturity 4.3 – 4.5 Soybean Varieties and Experimental Lines in the Early Planted Tests at All Locations, 2018.^{1,2}

Variety/Experimental Line	Herbicide Technology	2018 Keiser	2-Year ³ Average Keiser	3-Year ⁴ Average Keiser	2018 Marianna	2-Year ³ Average Marianna	3-Year ⁴ Average Marianna	2018 Poinsett Co.	2-Year ⁵ Average Poinsett Co.	3-Year ⁶ Average Poinsett Co.	2018 Rohwer	2-Year ⁵ Average Rohwer	3-Year ⁶ Average Rohwer	All Location Avg.
(bu./ac)														
Relative Maturity 4.3 to 4.5; 2018, 2- and 3-Year Average Yields														
Non-Xtend														
Credenz CZ 4308 LL	LL	95.8	•	•	69.7	•	•	70.7	•	•	67.7	•	•	76.0
Credenz CZ 4540 LL	LL	83.2	•	•	69.5	•	•	64.5	•	•	62.0	•	•	69.8
Credenz CZ 4548 LL	LL	84.6	•	•	75.1	•	•	77.4	•	•	71.6	•	•	77.1
Delta Grow DG4587LL/STS	LL/STS	86.2	89.4	89.9	66.7	67.4	70.0	74.1	75.8	78.7	65.4	68.8	66.6	73.1
Go Soy 43C17S	Conv./STS	83.5	•	•	60.3	•	•	64.4	•	•	64.8	•	•	68.2
Go Soy E4510S	Conv./STS	78.8	•	•	61.1	•	•	62.4	•	•	65.2	•	•	66.9
GRAND MEAN		85.3	•	•	67.0	•	•	78.3	•	•	67.0	•	•	•
LSD (5%)		7.8	•	•	4.5	•	•	8.3	•	•	7.9	•	•	•
C.V.		7.3	•	•	5.4	•	•	9.0	•	•	10.0	•	•	•

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Table 5. Yield (bu/ac) of Relative Maturity 4.6 – 4.7 Soybean Varieties and Experimental Lines in the Early Planted Tests at All Locations, 2018.^{1,2}

Variety/Experimental Line	Herbicide Technology	2018 Keiser	2-Year ³ Average Keiser	3-Year ⁴ Average Keiser	2018 Marianna	2-Year ³ Average Marianna	3-Year ⁴ Average Marianna	2018 Poinsett Co.	2-Year ⁵ Average Poinsett Co.	3-Year ⁶ Average Poinsett Co.	2018 Rohwer	2-Year ⁵ Average Rohwer	3-Year ⁶ Average Rohwer	All Location Avg.
(bu./ac)														
Relative Maturity 4.6 to 4.7; 2018, 2- and 3-Year Average Yields														
Xtend Only														
AgriGold G4605RX	RR2X	93.8	•	•	77.3	•	•	82.6	•	•	66.5	•	•	80.0
AGS GS46X17	RR2X	94.9	•	•	70.4	•	•	81.9	79.0	•	79.5	79.2	•	81.7
Armor 47-D22	RR2X	102.9	•	•	77.3	•	•	87.2	•	•	59.9	•	•	81.8
Armor X46D63	RR2X	91.1	•	•	75.6	•	•	87.9	•	•	66.9	•	•	80.4
Asgrow AG 46X6	RR2X	104.9	97.9	•	79.7	72.3	•	83.8	86.1	80.8	81.7	83.5	71.6	87.5
Asgrow AG 47X9	RR2X	96.9	•	•	83.1	•	•	79.2	•	•	76.9	•	•	84.0
Delta Grow DG46X25	RR2X	100.9	•	•	77.8	•	•	92.8	•	•	51.6	•	•	80.8
Local Seed AV47W2X	RR2X	93.6	•	•	64.5	•	•	81.7	•	•	70.6	•	•	77.6
Local Seed LS4677X	RR2X	99.7	•	•	76.0	•	•	81.0	•	•	68.0	•	•	81.1
Local Seed LS4689X	RR2X	98.2	•	•	67.3	•	•	76.4	•	•	66.1	•	•	77.0
Mission A4637NSXR2	RR2X	89.5	•	•	64.8	•	•	81.4	•	•	69.1	•	•	76.2
Mission MEX4608	RR2X	96.4	•	•	68.7	•	•	79.9	•	•	65.5	•	•	77.6
Mission MEX4619X	RR2X	94.5	•	•	75.1	•	•	81.0	•	•	76.2	•	•	81.7
Progeny P4620RXS	RR2X/STS	98.3	•	•	72.0	•	•	83.0	84.9	•	71.4	75.2	•	81.2
Progeny P4799RXS	RR2X/STS	100.9	•	•	75.3	•	•	83.9	85.6	•	71.4	77.4	•	82.9
REV 4679X	RR2X	102.5	•	•	68.7	•	•	73.9	•	•	65.6	•	•	77.7
GRAND MEAN		97.4	•	•	73.3	•	•	—	—	—	—	—	—	•
LSD (5%)		6.0	•	•	6.9	•	•	—	—	—	—	—	—	•
C.V.		5.2	•	•	7.9	•	•	—	—	—	—	—	—	•
Non-Xtend														
Credenz CZ 4649 LL	LL	92.7	•	•	93.4	•	•	79.5	•	•	58.4	•	•	81.0
Delta Grow DG4670RR2	RR2	98.7	93.0	82.1	72.2	72.4	68.3	84.9	82.3	81.3	67.4	73.7	64.1	80.8
Delta Grow DG4790RR2	RR2	97.1	88.5	78.4	70.5	62.3	60.9	80.7	84.1	80.1	72.2	76.6	64.6	80.1
Petrus Seed 479 GTS	RR1/STS	79.3	•	•	62.4	•	•	72.9	75.7	•	73.9	75.2	•	72.1
REV 46L99	LL	80.6	•	•	70.8	•	•	79.8	•	•	74.6	•	•	76.4
REV 47L38	LL	92.1	•	•	65.3	•	•	79.2	•	•	71.0	•	•	76.9
GRAND MEAN		90.1	•	•	72.4	•	•	81.6	•	•	69.3	•	•	•
LSD (5%)		11.1	•	•	4.5	•	•	7.1	•	•	9.7	•	•	•
C.V.		9.9	•	•	5.0	•	•	7.4	•	•	11.8	•	•	•

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Table 6. Yield (bu/ac) of Relative Maturity 4.8 – 4.9 Soybean Varieties and Experimental Lines in the Early Planted Tests at All Locations, 2018.^{1,2}

Variety/Experimental Line	Herbicide Technology	2018 Keiser	2-Year ³ Average Keiser	3-Year ⁴ Average Keiser	2018 Marianna	2-Year ³ Average Marianna	3-Year ⁴ Average Marianna	2018 Poinsett Co.	2-Year ⁵ Average Poinsett Co.	3-Year ⁶ Average Poinsett Co.	2018 Rohwer	2-Year ⁵ Average Rohwer	3-Year ⁶ Average Rohwer	All Location Avg.
(bu./ac)														
Relative Maturity 4.8 to 4.9; 2018, 2- and 3-Year Average Yields														
Xtend Only														
AgriGold G4995RX	RR2X	102.0	•	•	84.7	•	•	90.2	•	•	67.9	•	•	86.2
Armor 49-D31	RR2X	97.0	•	•	81.2	•	•	86.9	•	•	58.6	•	•	80.9
Armor X48D02	RR2X	102.5	•	•	75.7	•	•	92.8	•	•	62.4	•	•	83.3
Asgrow AG 48X9	RR2X/SR	103.2	•	•	80.3	•	•	95.7	•	•	79.3	•	•	89.6
Asgrow AG 49X9	RR2X/SR	101.4	•	•	71.1	•	•	91.9	•	•	67.0	•	•	82.9
Croplan RX4825	RR2X	98.4	•	•	81.6	•	•	100.0	•	•	76.7	•	•	89.1
Croplan RX4927	RR2X	97.3	•	•	73.1	•	•	88.3	•	•	61.9	•	•	80.1
Croplan RX4928	RR2X	106.7	•	•	91.8	•	•	102.1	•	•	70.5	•	•	92.8
Delta Grow DG48X45	RR2X	99.4	•	•	78.7	•	•	87.4	•	•	73.2	•	•	84.7
Dyna-Gro S48XT56	RR2X	108.0	•	•	77.4	•	•	90.9	87.2	•	68.2	73.4	•	86.1
Dyna-Gro S49XS76	RR2X/STS	99.2	89.5	•	68.1	65.0	•	86.6	84.3	71.1	69.1	70.9	66.2	80.8
Local Seed AV49W3X	RR2X	94.8	•	•	77.0	•	•	88.3	•	•	74.5	•	•	83.6
Local Seed LS4889XS	RR2X/STS	109.1	•	•	83.3	•	•	93.4	•	•	61.5	•	•	86.8
Local Seed LS4966X	RR2X	108.4	•	•	74.7	•	•	91.0	•	•	69.8	•	•	86.0
Local Seed LS4968XS	RR2X/STS	103.4	•	•	73.8	•	•	90.0	•	•	66.1	•	•	83.3
Local Seed LS4988X	RR2X	99.1	•	•	69.6	•	•	77.2	•	•	62.3	•	•	77.0
Mission MEX4808	RR2X	102.1	•	•	80.8	•	•	93.8	•	•	59.6	•	•	84.1
Mission MEX4908	RR2X	102.5	•	•	85.9	•	•	91.3	•	•	65.7	•	•	86.3
Progeny P4816RX	RR2X	102.9	•	•	78.6	•	•	92.5	87.5	•	74.5	75.7	•	87.1
Progeny P4851RX	RR2X	98.9	•	•	72.4	•	•	88.5	81.4	•	59.9	70.1	•	79.9
Progeny P4955RX	RR2X	102.4	•	•	82.1	•	•	87.0	•	•	61.2	•	•	83.2
Progeny P4994RX	RR2X	93.8	•	•	70.6	•	•	83.4	•	•	65.8	•	•	78.4
REV 4857X	RR2X	92.7	•	•	63.5	•	•	77.9	80.1	•	68.9	74.5	•	75.7
REV 4927X	RR2X	98.6	•	•	77.3	•	•	92.1	84.7	•	63.7	73.2	•	82.9
USG 7487XTS	RR2X/STS	92.7	87.3	•	83.7	76.9	•	95.8	82.5	81.4	52.9	58.6	56.3	81.3
USG 7489XT	RR2X	104.1	•	•	81.1	•	•	93.8	•	•	78.5	•	•	89.4
USG 7496XTS	RR2X/STS	104.3	•	•	72.7	•	•	88.2	83.4	•	74.3	74.3	•	84.9
GRAND MEAN		100.9	•	•	77.4	•	•	—	—	—	—	—	—	•
LSD (5%)		7.1	•	•	8.3	•	•	—	—	—	—	—	—	•
C.V.		6.0	•	•	9.1	•	•	—	—	—	—	—	—	•

2018 Soybean Update

Table 6 (Continued). Yield (bu/ac) of Relative Maturity 4.8 – 4.9 Soybean Varieties and Experimental Lines in the Early Planted Tests at All Locations, 2018.^{1,2}

Variety/Experimental Line	Herbicide Technology	2018 Keiser	2-Year ³ Average Keiser	3-Year ⁴ Average Keiser	2018 Marianna	2-Year ³ Average Marianna	3-Year ⁴ Average Marianna	2018 Poinsett Co.	2-Year ⁵ Average Poinsett Co.	3-Year ⁶ Average Poinsett Co.	2018 Rohwer	2-Year ⁵ Average Rohwer	3-Year ⁶ Average Rohwer	All Location Avg.
(bu./ac)														
Relative Maturity 4.8 to 4.9; 2018, 2- and 3-Year Average Yields														
Non-Xtend														
Credenz CZ 4918 LL	LL	101.5	•	•	74.5	•	•	88.9	•	•	68.4	•	•	83.3
Credenz CZ 4938 LL	LL	87.9	•	•	63.9	•	•	90.5	•	•	53.7	•	•	74.0
Delta Grow DG4880RR	RR1	93.4	89.4	85.2	68.2	72.9	74.2	86.3	79.9	75.8	58.8	74.3	64.9	76.7
Delta Grow DG4967LL	LL	77.6	82.8	78.0	73.7	66.7	67.2	81.2	77.8	75.7	57.3	60.3	59.7	72.4
Delta Grow DG4970RR	RR1	87.8	88.2	85.8	64.6	67.9	72.3	81.2	76.0	74.6	52.2	63.9	57.0	71.4
Delta Grow DG4977LL/STS	LL/STS	82.5	76.8	71.7	73.4	71.3	68.0	85.9	80.9	79.7	55.0	59.1	57.9	74.2
Go Soy 49G16	RR1	87.2	•	•	75.8	•	•	88.6	78.7	•	61.1	63.5	•	78.2
Petrus Seed 4916 GTS	RR1	88.8	•	•	61.2	•	•	94.2	•	•	66.4	•	•	77.7
Progeny P4930LL	LL	97.0	93.5	86.1	88.4	81.0	77.8	87.3	81.6	76.8	64.9	69.1	65.6	84.4
REV 49L88	LL	97.0	•	•	73.3	•	•	84.1	80.8	•	72.4	71.8	•	81.7
GRAND MEAN		90.1	•	•	71.7	•	•	89.3	•	•	65.5	•	•	•
LSD (5%)		7.3	•	•	8.2	•	•	6.6	•	•	8.8	•	•	•
C.V.		6.7	•	•	9.5	•	•	6.3	•	•	11.4	•	•	•

2018 Soybean Update

Table 7. Yield (bu/ac) of Relative Maturity 5.0 – 5.3 Soybean Varieties and Experimental Lines in the Early Planted Tests at All Locations, 2018.^{1,2}

Variety/Experimental Line	Herbicide Technology	2018 Keiser	2-Year ³ Average Keiser	3-Year ⁴ Average Keiser	2018 Marianna	2-Year ³ Average Marianna	3-Year ⁴ Average Marianna	2018 Poinsett Co.	2-Year ⁵ Average Poinsett Co.	3-Year ⁶ Average Poinsett Co.	2018 Rohwer	2-Year ⁵ Average Rohwer	3-Year ⁶ Average Rohwer	All Location Avg.
(bu./ac)														
Relative Maturity 5.0 to 5.3; 2018, 2- and 3-Year Average Yields														
Xtend Only														
AgriGold G5000RX	RR2X	101.1	•	•	71.8	•	•	91.5	86.8	•	69.1	71.2	•	83.4
AgriGold G5288RX	RR2X	104.3	•	•	73.8	•	•	92.1	•	•	70.2	•	•	85.1
Armor 49-D13	RR2X	101.5	•	•	69.1	•	•	93.4	•	•	62.7	•	•	81.7
Armor 52-D71	RR2X	97.7	•	•	74.5	•	•	97.0	•	•	65.9	•	•	83.8
Armor X51D77	RR2X	89.5	•	•	74.1	•	•	79.6	•	•	55.9	•	•	74.8
Asgrow AG 52X9	RR2X/SR	97.2	•	•	67.7	•	•	87.8	•	•	73.1	•	•	81.5
Local Seed LS5087X	RR2X	92.8	•	•	70.7	•	•	93.7	•	•	66.8	•	•	81.0
NK S50-G9X	RR2X	87.2	•	•	61.8	•	•	87.4	•	•	61.6	•	•	74.5
Progeny P5016RXS	RR2X/STS	105.0	•	•	67.6	•	•	92.1	89.2	•	66.6	71.4	•	82.8
Progeny P5018RX	RR2X	96.3	•	•	72.8	•	•	88.0	•	•	62.9	•	•	80.0
Progeny P5252RX	RR2X	86.3	•	•	73.0	•	•	81.5	•	•	58.3	•	•	74.8
Progeny P5279RXS	RR2X/STS	85.9	•	•	68.5	•	•	89.8	83.8	•	52.4	62.7	•	74.1
GRAND MEAN		95.4	•	•	70.5	•	•	—	—	—	—	—	—	•
LSD (5%)		7.0	•	•	4.7	•	•	—	—	—	—	—	—	•
C.V.		6.2	•	•	5.6	•	•	—	—	—	—	—	—	•
Non-Xtend														
Credenz CZ 5150 LL	LL	82.2	•	•	65.1	•	•	85.1	•	•	60.5	•	•	73.2
Credenz CZ 5225 LL	LL	87.8	•	•	56.1	•	•	64.2	•	•	62.8	•	•	67.7
Delta Grow DG5170RR2	RR2	95.9	•	•	82.0	•	•	98.3	•	•	68.1	•	•	86.1
Go Soy Leland	Conv.	81.7	•	•	55.7	•	•	79.0	77.3	•	63.5	64.5	•	70.0
NSGA DrewSoy 5.0	Conv.	92.6	•	•	73.8	•	•	92.6	•	•	58.1	•	•	79.2
GRAND MEAN		88.0	•	•	66.5	•	•	87.8	•	•	63.4	•	•	•
LSD (5%)		5.1	•	•	4.4	•	•	7.8	•	•	8.3	•	•	•
C.V.		4.5	•	•	5.2	•	•	7.4	•	•	11.0	•	•	•

2018 Soybean Update

Table 8. Yield (bu/ac) of Relative Maturity 3.5 - 4.2 Soybean Varieties and Experimental Lines in the Full-Season Planted Tests at All Locations, 2018.^{1,2}

Variety/Experimental Line	Herbicide Technology	2018 Keiser	2-Year ³ Average Keiser	3-Year ⁴ Average Keiser	2018 Marianna	2-Year ³ Average Marianna	2018 Kibler	2-Year ⁵ Average Kibler	3-Year ⁶ Average Kibler	2018 Rohwer	2-Year ⁵ Average Rohwer	3-Year ⁶ Average Rohwer	2018 Rohwer (Late Planted)	All Location Avg.
(bu./ac)														
Relative Maturity 3.5 to 4.2; 2018, 2- and 3-Year Average Yields Xtend Only														
Armor 42-D27	RR2X	75.4	•	•	77.4	•	69.2	•	•	80.5	•	•	75.2	75.6
Eagle Seed ES4211RYX	RR2X	76.3	•	•	71.2	•	66.4	•	•	75.4	•	•	71.5	72.3
Eagle Seed ES4060RYX	RR2X	76.5	•	•	72.0	•	60.1	•	•	79.0	•	•	60.2	71.9
Progeny P4255RX	RR2X	68.7	•	•	79.6	•	67.9	69.9	•	67.4	62.5	•	72.7	70.9
Asgrow AG 42X9	RR2X	70.7	•	•	73.8	•	52.7	•	•	69.1	•	•	60.3	66.6
EXP1X18	RR2X	63.2	•	•	68.4	•	54.4	•	•	65.6	•	•	66.2	62.9
GRAND MEAN		71.8	•	•	73.7	•	-	-	-	-	-	-	-	•
LSD (5%)		7.6	•	•	7.8	•	-	-	-	-	-	-	-	•
C.V.		7.0	•	•	7.1	•	-	-	-	-	-	-	-	•
Non-Xtend														
Credenz CZ 3601 LL	LL	66.2	•	•	68.9	•	67.9	•	•	69.5	•	•	76.5	68.1
Credenz CZ 3738 LL	LL	58.9	•	•	69.4	•	66.5	•	•	76.5	•	•	72.6	67.8
Credenz CZ 3841 LL	LL	57.3	•	•	67.5	•	59.8	•	•	72.9	•	•	69.1	64.4
Credenz CZ 4044 LL	LL	68.6	63.6	65.9	67.0	62.0	58.8	64.6	65.7	65.1	63.0	60.6	60.0	64.9
Credenz CZ 4222 LL	LL	67.2	65.5	•	74.5	67.7	61.2	67.8	67.6	83.5	69.8	65.5	72.5	71.6
Progeny P4247LL	LL	65.3	63.4	•	75.1	66.0	64.8	67.2	67.6	72.0	67.3	64.7	70.0	69.3
S13-2743C	Conv	73.7	•	•	68.0	•	62.0	67.2	•	77.5	69.4	•	51.7	70.3
GRAND MEAN		65.3	•	•	70.1	•	62.4	•	•	73.4	•	•	67.6	•
LSD (5%)		6.2	•	•	9.4	•	8.3	•	•	12.4	•	•	9.2	•
C.V.		6.5	•	•	9.3	•	9.5	•	•	12.1	•	•	9.7	•

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Table 9 (Continued). Yield (bu/ac) of Relative Maturity 4.3 - 4.5 Soybean Varieties and Experimental Lines in the Full-Season Planted Tests at All Locations, 2018.^{1,2}

Variety/Experimental Line	Herbicide Technology	2018 Keiser	2-Year ³ Average Keiser	3-Year ⁴ Average Keiser	2018 Marianna	2-Year ³ Average Marianna	2018 Kibler	2-Year ⁵ Average Kibler	3-Year ⁶ Average Kibler	2018 Rohwer	2-Year ⁵ Average Rohwer	3-Year ⁶ Average Rohwer	2018 Rohwer (Late Planted)	All Location Avg.
(bu./ac)														
Relative Maturity 4.3 to 4.5; 2018, 2- and 3-Year Average Yields														
Non-Xtend														
Credenz CZ 4308 LL	LL	69.9	•	•	73.0	•	63.0	•	•	65.8	•	•	65.5	67.9
Credenz CZ 4540 LL	LL	61.1	58.8	61.0	64.3	58.4	59.0	64.2	61.4	53.3	57.5	57.6	54.4	59.4
Credenz CZ 4548 LL	LL	60.6	•	•	73.0	•	69.6	•	•	66.1	•	•	63.8	67.3
Delta Grow DG4587LL/STS	LL/STS	64.6	61.5	65.0	67.3	64.8	55.1	60.8	62.0	64.2	67.1	64.6	60.8	62.8
Go Soy E4510S	Conv/STS	58.8	•	•	67.9	•	60.1	•	•	61.8	•	•	58.0	62.2
Local Seed AV44U4LL	LL	65.2	•	•	68.6	•	64.3	•	•	73.6	•	•	66.8	67.9
Pioneer P44A08L	LL	67.7	•	•	72.0	•	69.0	•	•	72.1	•	•	59.9	70.2
S13-10590C	Conv	62.4	•	•	75.1	•	64.7	67.6	•	56.4	57.4	•	51.2	64.6
VIRTUE EX206	Conv	63.3	•	•	75.1	•	67.6	•	•	57.4	•	•	63.7	65.8
GRAND MEAN		63.7	•	•	70.7	•	65.4	•	•	63.0	•	•	62.2	•
LSD (5%)		7.7	•	•	9.8	•	8.5	•	•	8.7	•	•	7.7	•
C.V.		8.5	•	•	9.8	•	9.5	•	•	10.1	•	•	9.0	•

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Table 10 (Continued). Yield (bu/ac) of Relative Maturity 4.6 - 4.7 Soybean Varieties and Experimental Lines in the Full-Season Planted Tests at All Locations, 2018.^{1,2}

Variety/Experimental Line	Herbicide Technology	2018 Keiser	2-Year ³ Average Keiser	3-Year ⁴ Average Keiser	2018 Marianna	2-Year ³ Average Marianna	2018 Kibler	2-Year ⁵ Average Kibler	3-Year ⁶ Average Kibler	2018 Rohwer	2-Year ⁵ Average Rohwer	3-Year ⁶ Average Rohwer	2018 Rohwer (Late Planted)	All Location Avg.
(bu./ac)														
Relative Maturity 4.6 to 4.7; 2018, 2- and 3-Year Average Yields														
Non-Xtend														
Credenz CZ 4649 LL	LL	64.6	•	•	71.6	•	60.0	•	•	64.2	•	•	62.2	65.1
Credenz CZ 4748 LL	LL	58.9	56.4	60.6	66.8	61.8	60.3	68.4	65.7	66.5	66.3	61.9	64.2	63.1
Delta Grow DG4670RR2	RR2	58.3	57.4	60.8	61.0	64.0	63.1	70.1	68.5	66.1	69.6	66.5	60.4	62.1
Delta Grow DG4790RR2	RR2	69.2	68.2	69.8	71.6	62.7	56.1	66.3	66.8	66.6	70.4	67.9	66.0	65.9
Eagle Seed ES4777RR	RR1	67.8	•	•	67.9	•	66.6	•	•	54.2	•	•	60.6	64.1
Local Seed AV47W3LL	LL	67.4	•	•	60.5	•	63.9	•	•	73.4	•	•	68.7	66.3
Petrus Seed 479 GTS	RR1/STS	54.7	•	•	55.5	•	58.4	64.3	•	66.4	65.6	•	68.8	58.8
Pioneer P46A16R	RR1	65.6	•	•	69.6	•	66.9	73.9	•	82.0	81.4	•	70.7	71.0
Pioneer P47A76L	LL	62.9	•	•	65.5	•	69.4	•	•	71.5	•	•	66.0	67.3
R15-1150	Conv	70.9	•	•	58.3	•	61.6	•	•	64.8	•	•	52.5	63.9
R15-2422	Conv	60.3	•	•	57.6	•	62.6	•	•	54.6	•	•	44.6	58.8
R15-818	Conv	63.6	•	•	57.8	•	67.2	•	•	58.2	•	•	58.7	61.7
REV 46L99	LL	64.4	•	•	69.0	•	67.2	•	•	78.0	•	•	72.1	69.7
REV 47L38	LL	66.7	•	•	60.9	•	66.2	•	•	70.0	•	•	73.8	65.9
S14-9051R	RR1	65.6	•	•	70.4	•	68.7	72.2	•	71.4	68.8	•	65.2	69.0
VIRTUE EX202	Conv	69.2	•	•	53.2	•	60.7	•	•	55.1	•	•	54.5	59.5
VIRTUE EX203	Conv	63.5	•	•	61.6	•	61.5	•	•	60.9	•	•	50.8	61.9
GRAND MEAN		64.3	•	•	63.4	•	63.6	•	•	66.4	•	•	63.2	•
LSD (5%)		7.9	•	•	7.5	•	8.3	•	•	7.8	•	•	5.9	•
C.V.		8.8	•	•	8.5	•	9.5	•	•	8.6	•	•	6.8	•

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Table 11. Yield (bu/ac) of Relative Maturity 4.8 – 4.9 Soybean Varieties and Experimental Lines in the Full-Season Planted Tests at All Locations, 2018.^{1,2}

Variety/Experimental Line	Herbicide Technology	2018 Keiser	2-Year ³ Average Keiser	3-Year ⁴ Average Keiser	2018 Marianna	2-Year ³ Average Marianna	2018 Kibler	2-Year ⁵ Average Kibler	3-Year ⁶ Average Kibler	2018 Rohwer	2-Year ⁵ Average Rohwer	3-Year ⁶ Average Rohwer	2018 Rohwer (Late Planted)	All Location Avg.
(bu./ac)														
Relative Maturity 4.8 to 4.9; 2018, 2- and 3-Year Average Yields Xtend Only														
AgriGold G4995RX	RR2X	72.5	•	•	73.7	•	76.1	•	•	70.2	•	•	72.6	73.1
AGS GS48X18	RR2X	73.0	•	•	69.1	•	73.0	•	•	67.2	•	•	61.0	70.5
Armor 49-D31	RR2X	67.5	•	•	67.6	•	64.6	•	•	59.7	•	•	65.0	64.9
Armor X48D02	RR2X	73.0	•	•	76.6	•	71.3	•	•	58.6	•	•	55.1	69.9
Asgrow AG 48X9	RR2X/SR	70.7	•	•	69.0	•	77.6	•	•	65.8	•	•	74.8	70.8
Asgrow AG 49X9	RR2X/SR	78.6	•	•	67.8	•	78.9	•	•	76.4	•	•	73.9	75.4
Delta Grow DG48X45	RR2X	71.9	•	•	70.4	•	83.3	•	•	69.3	•	•	69.8	73.7
Dyna-Gro S48XS78	RR2X/STS	81.7	•	•	66.7	•	71.6	•	•	61.6	•	•	67.5	70.4
Dyna-Gro S48XT56	RR2X	75.2	69.4	•	70.6	63.5	81.9	79.8	73.5	72.0	70.1	64.0	66.5	74.9
Dyna-Gro S49XS76	RR2X/STS	74.0	63.6	•	73.3	68.3	73.3	73.4	69.4	66.8	64.9	55.4	57.9	71.8
Dyna-Gro S49XT39	RR2X	72.2	•	•	68.0	•	80.1	•	•	61.3	•	•	56.1	70.4
Eagle Seed ES4840RYX	RR2X	76.9	•	•	70.5	•	62.3	•	•	54.3	•	•	64.9	66.0
Eagle Seed ES4870RYX	RR2X	70.7	56.9	•	70.5	64.9	66.4	67.8	66.4	66.1	56.3	54.0	69.7	68.4
GDM Seeds EXP2X18	RR2X	78.6	•	•	65.9	•	73.2	•	•	60.7	•	•	67.2	69.6
GDM Seeds EXP3X18	RR2X	67.6	•	•	69.1	•	77.4	•	•	56.4	•	•	61.6	67.6
Hefty H48X7	RR2X	71.8	•	•	67.0	•	80.8	•	•	66.7	•	•	72.0	71.6
Hefty H49X7s	RR2X/STS	73.7	•	•	71.7	•	76.1	73.4	•	67.8	64.0	•	63.8	72.3
LG C4845RX	RR2X	69.1	•	•	68.8	•	83.2	•	•	73.1	•	•	76.7	73.6
LG LGS4989RX	RR2X	70.5	•	•	66.6	•	75.3	•	•	66.5	•	•	74.3	69.7
Local Seed AV49W3X	RR2X	68.0	•	•	68.0	•	72.6	•	•	70.6	•	•	68.6	69.8
Local Seed LS4889XS	RR2X/STS	67.9	•	•	70.4	•	67.8	•	•	66.1	•	•	60.9	68.0
Local Seed LS4966X	RR2X	72.8	•	•	74.5	•	79.0	•	•	72.1	•	•	75.5	74.6
Local Seed LS4968XS	RR2X/STS	72.5	•	•	77.3	•	71.5	•	•	67.2	•	•	64.8	72.1
Local Seed LS4988X	RR2X	67.3	•	•	59.5	•	74.4	•	•	54.7	•	•	58.5	64.0
Pioneer P48A60X	RR2X	73.1	•	•	68.7	•	75.1	75.3	•	79.1	73.2	•	71.3	74.0
Progeny P4816RX	RR2X	73.4	69.1	•	73.5	66.6	79.9	78.8	74.8	70.8	71.1	65.9	69.9	74.4
Progeny P4851RX	RR2X	75.4	•	•	66.3	•	75.4	73.3	•	66.6	65.5	•	57.7	70.9
Progeny P4955RX	RR2X	67.8	•	•	63.6	•	63.7	•	•	54.4	•	•	56.5	62.4

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Table 11 (Continued). Yield (bu/ac) of Relative Maturity 4.8 – 4.9 Soybean Varieties and Experimental Lines in the Full-Season Planted Tests at All Locations, 2018.^{1,2}

Variety/Experimental Line	Herbicide Technology	2018 Keiser	2-Year ³ Average Keiser	3-Year ⁴ Average Keiser	2018 Marianna	2-Year ³ Average Marianna	2018 Kibler	2-Year ⁵ Average Kibler	3-Year ⁶ Average Kibler	2018 Rohwer	2-Year ⁵ Average Rohwer	3-Year ⁶ Average Rohwer	2018 Rohwer (Late Planted)	All Location Avg.
(bu./ac)														
Relative Maturity 4.8 to 4.9; 2018, 2- and 3-Year Average Yields														
Xtend Only														
Progeny P4994RX	RR2X	68.4	•	•	61.5	•	73.8	•	•	66.6	•	•	70.5	67.6
REV 4857X	RR2X	73.3	•	•	67.3	•	70.2	71.0	•	60.4	63.6	•	66.1	67.8
REV 4927X	RR2X	73.9	•	•	70.6	•	76.5	73.3	•	59.3	61.7	•	55.3	70.1
USG 7487XTS	RR2X/STS	68.4	•	•	68.8	•	68.4	•	•	63.4	•	•	67.9	67.3
USG 7489XTS	RR2X/STS	76.5	•	•	66.8	•	84.5	•	•	77.3	•	•	72.0	76.3
USG 7496XTS	RR2X/STS	70.8	65.2	•	72.0	65.6	74.5	71.7	66.8	68.7	67.0	62.9	69.6	71.5
GRAND MEAN		72.3	•	•	69.2	•	-	-	-	-	-	-	-	•
LSD (5%)		6.7	•	•	7.4	•	-	-	-	-	-	-	-	•
C.V.		6.8	•	•	7.8	•	-	-	-	-	-	-	-	•
Non-Xtend														
Credenz CZ 4820 LL	LL	70.6	•	•	63.5	•	71.4	•	•	64.2	•	•	69.7	67.4
Credenz CZ 4918 LL	LL	68.6	•	•	70.5	•	73.7	•	•	59.8	•	•	62.9	68.2
Credenz CZ 4938 LL	LL	64.2	•	•	63.1	•	71.6	•	•	54.7	•	•	65.0	63.4
Delta Grow DG4880RR	RR1	68.2	63.7	64.8	63.6	60.5	69.8	71.7	67.2	57.8	57.8	58.3	62.0	64.9
Delta Grow DG4967LL	LL	71.1	61.8	63.7	65.6	60.5	72.0	71.0	67.4	61.5	61.2	58.9	65.0	67.5
Delta Grow DG4970RR	RR1	73.7	61.2	65.5	58.3	56.3	66.7	68.0	63.9	56.9	55.4	57.4	48.5	63.9
Delta Grow DG4977LL/STS	LL/STS	62.7	57.7	57.9	56.0	56.6	67.8	65.6	63.3	56.9	55.6	54.4	54.4	60.9
Dyna-Gro S49LL34	LL	72.8	64.8	65.6	70.5	62.5	71.8	71.6	67.4	61.4	63.2	59.0	63.6	69.1
Eagle Seed ES4998RR	RR1	68.6	59.0	•	60.2	60.6	63.7	67.7	66.3	38.3	46.7	48.7	56.6	57.7
Go Soy 49G16	RR1	69.9	•	•	72.0	•	70.1	•	•	63.1	•	•	53.3	68.8
Go Soy Ireane	Conv	76.1	67.0	67.3	59.6	53.3	73.0	72.9	69.7	63.3	65.5	59.5	61.8	68.0
Petrus Seed 4916 GTS	RR1	71.7	•	•	74.2	•	67.5	•	•	57.4	•	•	51.9	67.7
Progeny P4930LL	LL	71.5	63.0	63.8	70.6	62.3	73.0	72.0	67.7	51.5	56.5	56.7	67.8	66.7
REV 49L88	LL	67.0	•	•	69.3	•	73.4	70.3	•	59.6	62.1	•	66.0	67.3
TN16-520R1	RR1	65.7	•	•	59.5	•	71.5	•	•	63.6	•	•	66.8	65.1
GRAND MEAN		69.5	•	•	65.1	•	73.3	•	•	63.4	•	•	64.7	•
LSD (5%)		5.8	•	•	6.4	•	6.8	•	•	9.6	•	•	7.2	•
C.V.		6.0	•	•	7.1	•	6.8	•	•	11.1	•	•	8.1	•

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Table 12 (Continued). Yield (bu/ac) of Relative Maturity 5.0 – 5.4 Soybean Varieties and Experimental Lines in the Full-Season Planted Tests at All Locations, 2018.^{1,2}

Variety/Experimental Line	Herbicide Technology	2018 Keiser	2-Year ³ Average Keiser	3-Year ⁴ Average Keiser	2018 Marianna	2-Year ³ Average Marianna	2018 Kibler	2-Year ⁵ Average Kibler	3-Year ⁶ Average Kibler	2018 Rohwer	2-Year ⁵ Average Rohwer	3-Year ⁶ Average Rohwer	2018 Rohwer (Late Planted)	All Location Avg.
(bu./ac)														
Relative Maturity 5.0 to 5.4; 2018, 2- and 3-Year Average Yields														
Non-Xtend														
Credenz CZ 5147 LL	LL	67.4	64.9	62.6	70.1	59.6	67.7	69.9	64.0	59.7	58.9	54.7	66.2	66.2
Credenz CZ 5150 LL	LL	70.0	64.6	65.4	64.1	57.4	62.0	67.5	64.1	60.7	62.1	59.5	71.0	64.2
Credenz CZ 5225 LL	LL	72.2	•	•	57.3	•	66.3	•	•	51.6	•	•	62.0	61.8
Credenz CZ 5328 LL	LL	62.9	•	•	70.0	•	66.0	•	•	63.5	•	•	61.7	65.6
Credenz CZ 5445 LL	LL	69.8	•	•	64.3	•	64.1	•	•	56.3	•	•	58.6	63.6
Delta Grow DG5170RR2	RR2	71.5	•	•	72.9	•	64.8	•	•	60.0	•	•	59.3	67.3
Go Soy 50G17	RR1	73.9	•	•	79.0	•	65.6	•	•	54.2	•	•	51.0	68.2
Go Soy 51C17	Conv	67.2	•	•	62.5	•	65.5	•	•	59.6	•	•	48.9	63.7
Local Seed AV51W1LL	LL	74.7	•	•	68.6	•	62.2	•	•	77.0	•	•	65.6	70.6
Pioneer P50A78L	LL	67.2	•	•	66.4	•	66.9	•	•	74.2	•	•	61.7	68.7
Progeny P5414LLS	LL/STS	62.9	59.2	•	61.4	56.0	61.4	63.4	58.9	47.9	53.1	55.1	59.1	58.4
R12-6751RR	RR1	61.4	•	•	59.0	•	60.0	•	•	67.0	•	•	49.1	61.9
R13-13997	Conv	69.2	•	•	67.6	•	67.0	68.5	•	54.2	57.2	•	61.8	64.5
R13-1409	Conv	67.8	•	•	68.8	•	58.0	•	•	63.4	•	•	68.8	64.5
R13-818	Conv	71.8	•	•	67.5	•	66.7	•	•	49.7	•	•	52.5	63.9
R14-10150	Conv	59.5	•	•	65.9	•	60.8	•	•	46.5	•	•	45.8	58.2
R14-1422	Conv	77.4	•	•	62.2	•	67.3	•	•	53.6	•	•	53.7	65.1
R14-14797RR	RR1	67.8	•	•	62.6	•	58.7	62.4	•	54.3	56.0	•	56.1	60.8
R14-15079	Conv	68.9	•	•	66.0	•	66.6	•	•	53.7	•	•	53.5	63.8
R14-356	Conv	67.6	•	•	63.6	•	64.1	•	•	57.0	•	•	67.2	63.1
R14-898	Conv	67.8	•	•	67.4	•	62.1	•	•	54.1	•	•	55.5	62.9
R15-1194	Conv	68.4	•	•	64.0	•	67.1	•	•	62.6	•	•	56.5	65.5
R15-1587	Conv	76.7	•	•	65.6	•	64.1	•	•	62.0	•	•	57.5	67.1
R15-1687	Conv	64.8	•	•	63.0	•	67.1	•	•	49.0	•	•	51.8	61.0
R15-2465RR	RR1	58.2	•	•	58.2	•	58.5	•	•	54.2	•	•	45.5	57.3
R15-489	Conv	73.5	•	•	62.2	•	62.9	•	•	62.2	•	•	52.6	65.2
REV 54L18	LL	71.0	•	•	63.0	•	62.8	•	•	70.9	•	•	63.2	66.9
GRAND MEAN		68.6	•	•	65.3	•	65.5	•	•	60.9	•	•	61.7	•
LSD (5%)		8.9	•	•	5.4	•	5.9	•	•	9.9	•	•	7.7	•
C.V.		9.5	•	•	6.1	•	6.7	•	•	12.0	•	•	9.2	•

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Table 13. Yield (bu/ac) of Relative Maturity 5.5 – 5.9 Soybean Varieties and Experimental Lines in the Full-Season Planted Tests at All Locations, 2018.^{1,2}

Variety/Experimental Line	Herbicide Technology	2018 Keiser	2-Year ³ Average Keiser	3-Year ⁴ Average Keiser	2018 Marianna	2-Year ³ Average Marianna	2018 Kibler	2-Year ⁵ Average Kibler	3-Year ⁶ Average Kibler	2018 Rohwer	2-Year ⁵ Average Rohwer	3-Year ⁶ Average Rohwer	2018 Rohwer (Late Planted)	All Location Avg.
(bu./ac)														
Relative Maturity 5.5 to 5.9; 2018, 2- and 3-Year Average Yields Xtend Only														
Armor 55-D57	RR2X	71.0	•	•	75.6	•	60.8	•	•	78.1	•	•	67.9	71.4
Asgrow AG 55X7	RR2X	77.6	65.9	•	68.5	56.1	66.1	73.6	72.2	72.4	64.2	62.6	67.9	71.1
Dyna-Gro S56XT99	RR2X	72.8	•	•	71.9	•	63.9	•	•	77.4	•	•	66.9	71.5
Eagle Seed ES5660RYX	RR2X	69.9	•	•	68.7	•	63.9	69.5	•	67.7	60.5	•	66.2	67.6
Eagle Seed ES5930RYX	RR2X	64.3	•	•	73.1	•	60.0	•	•	56.2	•	•	43.3	63.4
Progeny P5688RX	RR2X	74.5	•	•	78.7	•	66.1	70.9	•	65.9	62.4	•	66.3	71.3
USG 7568XT	RR2X	62.9	•	•	77.5	•	62.5	71.1	•	66.1	57.7	•	64.2	67.2
GRAND MEAN		70.4	•	•	73.4	•	-	-	-	-	-	-	-	•
LSD (5%)		6.5	•	•	5.2	•	-	-	-	-	-	-	-	•
C.V.		6.4	•	•	4.7	•	-	-	-	-	-	-	-	•
Non-Xtend														
16UARK-52	RR1	64.8	•	•	64.2	•	64.9	•	•	61.6	•	•	54.7	63.9
Delta Grow DG5580RR2	RR2	71.7	57.1	•	78.2	66.9	70.2	71.7	72.2	43.6	52.7	55.8	52.7	65.9
Delta Grow DG5585RR2	RR2	71.3	•	•	77.3	•	63.2	•	•	69.2	•	•	58.6	70.2
Eagle Seed ES5519RR	RR1	63.7	•	•	71.0	•	58.5	•	•	41.2	•	•	51.8	58.6
Go Soy 56C16	Conv	70.1	60.9	•	72.8	60.3	60.6	66.9	66.4	58.7	55.3	55.9	49.5	65.6
R14-14648	Conv	70.7	•	•	61.5	•	60.2	•	•	53.8	•	•	53.6	61.5
R15-5695	Conv	70.9	•	•	69.8	•	56.5	•	•	52.3	•	•	54.7	62.4
S15-10434C	Conv	72.3	•	•	80.5	•	71.0	•	•	53.5	•	•	56.0	69.3
USG 75B75R	RR2	74.0	59.0	64.0	69.0	59.4	63.1	68.9	66.8	68.2	63.9	59.9	62.0	68.6
GRAND MEAN		69.9	•	•	71.6	•	63.2	•	•	61.6	•	•	58.5	•
LSD (5%)		6.8	•	•	9.3	•	5.0	•	•	10.7	•	•	8.5	•
C.V.		6.8	•	•	9.0	•	5.7	•	•	12.5	•	•	10.4	•

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Table 14. Nematode, Disease, and Chloride Sensitivity Ratings for Soybean Varieties in 2018 Arkansas Soybean Variety Performance Tests.⁷

Variety/Experimental Line	RKN GH Gall ⁸ Rating	Stem Canker ⁹ Rating	Frogeye ¹⁰ Rating	Chloride Reaction ¹¹	
				2017	2018
16UARK-52	10	1	1	•	Includer
AgriGold G4440RX	1	7	3	Includer	Includer
AgriGold G4579RX	2	1	1	•	Excluder
AgriGold G4605RX	4	5	5	•	Includer
AgriGold G4995RX	5	1	4	•	Includer
AgriGold G5000RX	4	1	5	Includer	Includer
AgriGold G5288RX	3	1	5	•	Includer
AGS GS46X17	10	1	1	Excluder	Excluder
AGS GS48X18	10	1	1	•	Includer
AGS GS51X18	8	1	0	•	Includer
Armor 39-D39	10	1	2	•	Includer
Armor 42-D27	10	1	5	•	Includer
Armor 45-D43	9	1	0	•	Includer
Armor 45-D50	10	1	5	•	Includer
Armor 47-D22	10	1	1	•	Includer
Armor 49-D13	10	1	5	•	Includer
Armor 49-D31	9	1	1	•	Includer
Armor 52-D71	10	1	3	•	Includer
Armor 55-D57	10	1	0	•	Excluder
Armor X40D	10	1	•	•	Includer
Armor X41D	10	1	1	•	Includer
Armor X44D36	10	1	6	•	Includer
Armor X46D63	10	1	0	•	Excluder
Armor X48D02	10	1	5	•	Includer
Armor X51D77	10	1	0	•	Includer
Asgrow AG 42X9	8	1	3	•	Includer
Asgrow AG 43X8	10	3	4	Excluder	Excluder
Asgrow AG 45X8	10	2	6	Mixed	Includer
Asgrow AG 46X6	10	4	3	Excluder	Excluder
Asgrow AG 47X9	10	3	1	•	Includer
Asgrow AG 48X9	10	3	5	•	Excluder
Asgrow AG 49X9	10	3	0	•	Includer
Asgrow AG 52X9	10	3	4	•	Includer
Asgrow AG 53X9	10	3	5	•	Includer
Asgrow AG 54X9	9	4	1	•	Excluder
Asgrow AG 55X7	9	2	2	Includer	Includer
Credenz CZ 3601 LL	6	5	2	•	Includer
Credenz CZ 3738 LL	3	4	0	•	Includer
Credenz CZ 3841 LL	6	2	3	•	Includer
Credenz CZ 4044 LL	7	1	0	Includer	Includer
Credenz CZ 4222 LL	2	3	3	Includer	Includer
Credenz CZ 4308 LL	1	3	0	•	Includer
Credenz CZ 4540 LL	4	3	1	Excluder	Excluder
Credenz CZ 4548 LL	•	4	0	•	Includer
Credenz CZ 4649 LL	2	3	0	•	Excluder
Credenz CZ 4748 LL	4	1	1	Includer	Includer
Credenz CZ 4820 LL	6	3	1	•	Includer
Credenz CZ 4918 LL	4	2	1	•	Includer
Credenz CZ 4938 LL	6	2	2	•	Includer
Credenz CZ 5147 LL	2	1	1	Excluder	Excluder
Credenz CZ 5150 LL	5	1	1	Includer	Includer
Credenz CZ 5225 LL	4	1	1	•	Excluder
Credenz CZ 5328 LL	2	1	0	•	Excluder
Credenz CZ 5445 LL	2	1	1	•	Excluder
Croplan RX4825	2	1	4	•	Excluder
Croplan RX4927	4	1	1	•	Includer
Croplan RX4928	5	1	4	•	Includer
Delta Grow DG44X25	10	•	1	•	Includer
Delta Grow DG44X50	10	•	1	•	Includer

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Table 14 (Continued). Nematode, Disease, and Chloride Sensitivity Ratings for Soybean Varieties in 2018 Arkansas Soybean Variety Performance Tests.⁷

Variety/Experimental Line	RKN GH Gall ⁸ Rating	Stem Canker ⁹ Rating	Frogeye ¹⁰ Rating	Chloride Reaction ¹¹	
				2017	2018
Delta Grow DG4587LL/STS	10	1	1	Includer	Includer
Delta Grow DG45X35	8	•	2	•	Includer
Delta Grow DG4670RR2	10	1	1	Includer	Mixed
Delta Grow DG46X25	10	1	5	•	Includer
Delta Grow DG4790RR2	10	1	1	Includer	Includer
Delta Grow DG4880RR	10	1	1	Excluder	Excluder
Delta Grow DG48X45	10	1	5	•	Excluder
Delta Grow DG4967LL	8	4	0	Includer	Includer
Delta Grow DG4970RR	10	4	2	Includer	Includer
Delta Grow DG4977LL/STS	9	4	3	Includer	Mixed
Delta Grow DG5170RR2	10	1	7	Excluder	Excluder
Delta Grow DG52X15	10	•	4	•	Includer
Delta Grow DG5580RR2	10	1	1	Includer	Includer
Delta Grow DG5585RR2	9	3	0	Mixed	Mixed
Dyna-Gro S41XS98	10	3	4	•	Includer
Dyna-Gro S43XS27	10	7	4	•	Includer
Dyna-Gro S45XS37	10	1	1	Excluder	Excluder
Dyna-Gro S45XS66	8	1	2	Includer	Includer
Dyna-Gro S48XS78	10	5	0	•	Excluder
Dyna-Gro S48XT56	10	1	4	Excluder	Excluder
Dyna-Gro S49LL34	10	3	0	Includer	Includer
Dyna-Gro S49XS76	10	1	6	Includer	Includer
Dyna-Gro S49XT39	8	1	1	•	Includer
Dyna-Gro S52XT08	9	2	0	•	Includer
Dyna-Gro S56XT99	9	2	0	Mixed	Excluder
Dyna-Gro SX18652XS	10	1	0	•	Includer
Dyna-Gro SX18845XT	10	1	5	•	Includer
Dyna-Gro SX18854XT	7	1	0	•	Includer
Eagle Seed ES4060RYX	10	•	3	•	Includer
Eagle Seed ES4211RYX	10	•	5	•	Includer
Eagle Seed ES4460RYX	10	9	1	Mixed	Includer
Eagle Seed ES4680RYX	10	1	6	Excluder	Includer
Eagle Seed ES4777RR	10	1	6	•	Excluder
Eagle Seed ES4840RYX	10	1	6	Excluder	Includer
Eagle Seed ES4870RYX	10	1	1	Mixed	Excluder
Eagle Seed ES4998RR	10	1	0	Includer	Includer
Eagle Seed ES5220RYX	10	•	1	•	Includer
Eagle Seed ES5420RYX	9	1	5	Excluder	Includer
Eagle Seed ES5519RR	10	1	4	•	Excluder
Eagle Seed ES5660RYX	8	9	0	Excluder	Includer
Eagle Seed ES5930RYX	10	1	5	•	Excluder
GDM Seeds EXP1X18	10	1	0	•	Includer
GDM Seeds EXP2X18	10	1	0	•	Includer
GDM Seeds EXP3X18	10	1	0	•	Includer
GDM Seeds EXP4X18	10	1	0	•	Includer
GDM Seeds VIRTUE EX203	10	1	7	•	Includer
GDM Seeds VIRTUE EX206	10	1	8	•	Includer
GDM Seeds VIRTUE V46C202	10	•	1	•	Includer
Go Soy 43C17S	10	1	4	•	Includer
Go Soy 49G16	9	1	1	Excluder	Excluder
Go Soy 50G17	9	1	5	•	Excluder
Go Soy 51C17	6	1	4	•	Excluder
Go Soy 56C16	10	3	2	Excluder	Excluder
Go Soy E4510S	10	9	5	•	Includer
Go Soy Ireane	7	1	1	Excluder	Excluder
Go Soy Leland	8	8	1	Excluder	Excluder
Hefty H43x8	10	1	4	Includer	Includer
Hefty H45x8s	10	3	5	Includer	Includer
Hefty H46x6	10	1	2	Includer	Includer

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Table 14 (Continued). Nematode, Disease, and Chloride Sensitivity Ratings for Soybean Varieties in 2018 Arkansas Soybean Variety Performance Tests.⁷

Variety/Experimental Line	RKN GH Gall ⁸ Rating	Stem Canker ⁹ Rating	Frogeye ¹⁰ Rating	Chloride Reaction ¹¹	
				2017	2018
Hefty H48x7	10	1	5	•	Excluder
Hefty H49x7s	10	1	5	Mixed	Includer
LG C4710RX	3	1	0	Includer	Includer
LG C4845RX	1	1	4	Excluder	Excluder
LG LGS4597RX	6	1	5	•	Includer
LG LGS4624RX	5	1	2	•	Includer
LG LGS4989RX	5	1	0	•	Includer
Local Seed AV44U4LL	3	1	7	•	Includer
Local Seed AV47W2X	10	1	5	•	Excluder
Local Seed AV47W3LL	10	1	0	•	Excluder
Local Seed AV49W3X	10	1	1	•	Excluder
Local Seed AV51W1LL	1	1	4	•	Excluder
Local Seed LS4388XS	10	1	2	•	Includer
Local Seed LS4565XS	10	1	0	•	Mixed
Local Seed LS4583X	10	1	5	•	Includer
Local Seed LS4677X	10	1	1	•	Includer
Local Seed LS4689X	10	3	4	•	Includer
Local Seed LS4889XS	10	1	6	•	Includer
Local Seed LS4966X	10	1	4	•	Excluder
Local Seed LS4968XS	9	1	6	•	Includer
Local Seed LS4988X	10	1	0	•	Excluder
Local Seed LS5087X	10	1	4	•	Includer
Mission A4447NSXR2	10	1	0	•	Mixed
Mission A4637NSXR2	10	9	5	•	Includer
Mission MEX4608	10	1	5	•	Includer
Mission MEX4619X	10	1	3	•	Includer
Mission MEX4808	10	1	6	•	Includer
Mission MEX4908	10	1	5	•	Includer
NK S39-R9X	10	2	7	•	Includer
NK S43-V3X	10	3	0	Includer	Includer
NK S45-J3X	7	1	0	•	Includer
NK S45-K5X	10	2	0	Mixed	Mixed
NK S45-Z5XS	10	1	0	•	Includer
NK S50-G9X	10	1	0	•	Includer
NSGA DrewSoy 5.0	8	1	1	•	Excluder
Petrus Seed 479 GTS	10	1	7	Excluder	Excluder
Petrus Seed 4916 GTS	6	1	1	Excluder	Excluder
Pioneer P44A08L	10	1	1	•	Excluder
Pioneer P45A19X	9	1	8	•	Excluder
Pioneer P46A16R	10	4	0	Excluder	Excluder
Pioneer P46A57BX	10	1	0	•	Excluder
Pioneer P47A76L	10	1	0	•	Excluder
Pioneer P48A60X	10	2	6	Excluder	Excluder
Pioneer P50A78L	8	1	1	Excluder	Excluder
Progeny P4247LL	6	•	1	Includer	Includer
Progeny P4255RX	7	9	4	Includer	Includer
Progeny P4318RX	7	1	2	•	Includer
Progeny P4444RXS	7	1	0	Includer	Includer
Progeny P4570RXS	10	1	0	•	Excluder
Progeny P4620RXS	6	1	0	Excluder	Excluder
Progeny P4799RXS	5	1	0	Includer	Includer
Progeny P4816RX	5	1	4	Excluder	Excluder
Progeny P4851RX	10	1	2	Includer	Includer
Progeny P4930LL	3	3	1	Includer	Includer
Progeny P4955RX	8	1	2	•	Includer
Progeny P4994RX	9	1	0	•	Excluder
Progeny P5016RXS	2	1	5	Includer	Includer
Progeny P5018RX	10	1	3	•	Includer
Progeny P5252RX	10	1	0	•	Includer

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Table 14 (Continued). Nematode, Disease, and Chloride Sensitivity Ratings for Soybean Varieties in 2018 Arkansas Soybean Variety Performance Tests.⁷

Variety/Experimental Line	RKN GH Gall ⁸ Rating	Stem Canker ⁹ Rating	Frogeye ¹⁰ Rating	Chloride Reaction ¹¹	
				2017	2018
Progeny P5279RXS	10	1	0	Includer	Includer
Progeny P5414LLS	9	1	0	Excluder	Excluder
Progeny P5554RX	6	3	0	Mixed	Excluder
Progeny P5688RX	2	9	1	Excluder	Excluder
R12-6751RR	10	1	2	•	Excluder
R13-13997	5	•	0	•	Mixed
R13-1409	10	1	5	•	Excluder
R13-818	10	1	3	•	Mixed
R14-10150	10	1	6	•	Includer
R14-1422	8	1	1	•	Excluder
R14-14648	10	1	3	•	Includer
R14-14797RR	9	1	3	Excluder	Mixed
R14-15079	10	1	1	•	Mixed
R14-356	10	1	4	•	Mixed
R14-898	7	1	1	•	Excluder
R15-1150	10	1	3	•	Mixed
R15-1194	10	1	1	•	Excluder
R15-1587	10	1	1	•	Excluder
R15-1687	10	1	1	•	Includer
R15-2422	10	1	7	•	Includer
R15-2465RR	9	1	1	•	Mixed
R15-489	10	1	5	•	Includer
R15-5695	9	1	0	•	Includer
R15-818	10	1	0	•	Excluder
REV 4679X	1	1	0	•	Includer
REV 46L99	1	3	6	•	Mixed
REV 47L38	10	•	1	•	Excluder
REV 4857X	10	•	6	Mixed	Excluder
REV 4927X	10	1	0	Excluder	Excluder
REV 49L88	10	2	3	Excluder	Excluder
REV 54L18	8	2	7	•	Excluder
S13-10590C	2	1	2	Mixed	Mixed
S13-2743C	3	9	1	Includer	Includer
S14-9051R	2	1	0	Mixed	Mixed
S15-10434C	3	1	1	•	Excluder
TN16-520R1	10	1	0	•	Excluder
USG 7487XTS	2	1	5	Excluder	Mixed
USG 7489XTS	0	1	4	•	Excluder
USG 7496XTS	2	1	4	Includer	Includer
USG 7568XT	2	9	0	Excluder	Excluder
USG 75B75R	2	9	0	Excluder	Excluder

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Table 15. Agronomic Characteristics for Soybean Varieties and Experimental Lines in 2018 Arkansas Soybean Variety Performance Tests.

Variety/Experimental Line	Relative Maturity	Herbicide Technology	STS/ BOLT	Metribuzin Sensitivity	Flower Color	Pubescence Color	Pod Color	Hilum Color	Growth ¹² Habit	Days to Maturity ¹³	Lodging ¹⁴ Score	Shatter ¹⁵ Score	Plant ¹⁶ Height
16UARK-52	5.7	RR1	•	Slight	•	Gray	•	•	Det	134	1.7	1.0	37
AgriGold G4440RX	4.4	RR2X	Yes	Moderate	White	Lt Tawny	Brown	Black	Ind	127	1.5	1.0	44
AgriGold G4579RX	4.5	RR2X	Yes	Moderate	Purple	Grey	Brown	Buff	Ind	124	1.3	1.2	49
AgriGold G4605RX	4.6	RR2X	•	Moderate	Purple	Tawny	Tan	Black	Ind	124	1.9	1.0	50
AgriGold G4995RX	4.9	RR2X	•	Moderate	Purple	Lt Tawny	Tan	Black	Ind	128	1.9	1.0	46
AgriGold G5000RX	5.0	RR2X	Yes	Moderate	Purple	Lt Tawny	Brown	Black	Ind	130	1.5	1.0	45
AgriGold G5288RX	5.2	RR2X	•	Slight	Purple	Lt Tawny	Tan	Black	Ind	131	1.3	1.0	48
AGS GS46X17	4.6	RR2X	No	Moderate	Purple	Lt Tawny	Brown	Black	Ind	121	1.2	1.1	39
AGS GS48X18	4.8	RR2X	No	Moderate	White	Lt Tawny	Tan	Black	Ind	126	2.0	1.0	45
AGS GS51X18S	5.1	RR2X/STS	Yes	Slight	Purple	Gray	Tan	Imp Blk	Ind	130	1.3	1.0	44
Armor 39-D39	3.9	RR2X	No	Slight	Purple	Gray	Tan	Imp Blk	Ind	•	1.8	1.0	36
Armor 42-D27	4.2	RR2X	No	Slight	Purple	Gray	Tan	Imp Blk	Ind	116	1.4	1.0	41
Armor 45-D43	4.3	RR2X	Yes	Slight	Purple	Lt Tawny	Brown	Black	Ind	122	2.2	1.0	41
Armor 45-D50	4.5	RR2X	No	Slight	Purple	Lt Tawny	Brown	Black	Ind	122	1.3	1.2	44
Armor 47-D22	4.7	RR2X	No	Moderate	Purple	Lt Tawny	Brown	Black	Ind	123	2.3	1.0	43
Armor 49-D13	5.0	RR2X	No	Moderate	Purple	Lt Tawny	Tan	Black	Ind	128	1.7	1.0	44
Armor 49-D31	4.9	RR2X	No	Slight	Purple	Gray	Brown	Imp Blk	Ind	127	2.1	1.0	46
Armor 52-D71	5.2	RR2X	No	Severe	Purple	Lt Tawny	Tan	Black	Ind	132	1.5	1.0	46
Armor 55-D57	5.5	RR2X	No	Slight	White	Tawny	Tan	Black	Det	134	1.5	1.0	39
Armor X40D	4.0	RR2X	•	Slight	•	•	•	•	•	•	1.4	1.1	30
Armor X41D	4.1	RR2X	•	Severe	•	•	•	•	•	•	2.8	1.1	38
Armor X44D36	4.4	RR2X	No	Slight	Purple	Lt Tawny	Brown	Black	Ind	116	1.3	1.0	42
Armor X46D63	4.6	RR2X	Yes	Moderate	Purple	Gray	Brown	Imp Blk	Ind	124	1.3	1.0	48
Armor X48D02	4.8	RR2X	Yes	Moderate	Purple	Lt Tawny	Brown	Black	Ind	126	2.7	1.0	51
Armor X51D77	5.1	RR2X	No	Moderate	White	Gray	Tan	Buff	Ind	129	1.7	1.0	43
Asgrow AG 42X9	4.2	RR2X	•	Moderate	Purple	Tawny	•	Black	Ind	120	1.9	1.1	47
Asgrow AG 43X8	4.3	RR2X	No	Slight	White	Lt Tawny	Brown	Black	Ind	125	1.5	1.1	44
Asgrow AG 45X8	4.5	RR2X	No	Moderate	Purple	Lt Tawny	Brown	Black	Ind	126	1.7	1.0	41
Asgrow AG 46X6	4.6	RR2X	No	Moderate	Purple	Tawny	Brown	Black	Ind	129	1.9	1.0	45
Asgrow AG 47X9	4.7	RR2X	No	Moderate	Purple	Lt Tawny	Brown	Black	Ind	125	1.4	1.0	45
Asgrow AG 48X9	4.8	RR2X/SR	No	Slight	Purple	Lt Tawny	Tan	Black	Ind	125	1.5	1.0	45
Asgrow AG 49X9	4.9	RR2X/SR	No	Severe	Purple	Lt Tawny	Brown	Black	Ind	129	1.6	1.0	43
Asgrow AG 52X9	5.2	RR2X/SR	No	Moderate	Purple	Lt Tawny	Tan	Black	Ind	130	1.2	1.0	47
Asgrow AG 53X9	5.3	RR2X		Severe	Purple	Gray	Tan	Imp Blk	Ind	130	1.3	1.0	43
Asgrow AG 54X9	5.4	RR2X	No	Severe	Purple	Tawny	Brown	Black	Det	128	1.3	1.0	39
Asgrow AG 55X7	5.5	RR2X	No	Slight	White	Tawny	Tan	Black	Det	132	1.2	1.0	35
Credenz CZ 3601 LL	3.6	LL	•	Slight	White	Lt Tawny	Tan	Black	Ind	113	1.7	1.1	38
Credenz CZ 3738 LL	3.7	LL	•	Slight	Purple	Gray	Brown	Imp Blk	Ind	112	1.5	1.1	37
Credenz CZ 3841 LL	3.8	LL	•	Moderate	White	Lt Tawny	Tan	Black	Ind	115	2.4	1.1	39
Credenz CZ 4044 LL	4.0	LL	No	Severe	White	Lt Tawny	Tan	Black	Ind	113	2.1	1.0	38
Credenz CZ 4222 LL	4.2	LL	Yes	Moderate	Purple	Lt Tawny	Brown	Black	Ind	117	1.8	1.0	40
Credenz CZ 4308 LL	4.3	LL	•	Moderate	Purple	Lt Tawny	Tan	Black	Ind	121	1.9	1.0	41
Credenz CZ 4540 LL	4.5	LL	No	Slight	White	Lt Tawny	Tan	Black	Ind	125	1.7	1.0	45
Credenz CZ 4548 LL	4.5	LL	•	Severe	Purple	Lt Tawny	Brown	Black	Ind	123	1.8	1.1	40
Credenz CZ 4649 LL	4.6	LL	•	Slight	Purple	Gray	Tan	Buff	Ind	128	1.5	1.0	45
Credenz CZ 4748 LL	4.7	LL	No	Slight	White	Lt Tawny	Brown	Black	Ind	120	1.4	1.0	42
Credenz CZ 4820 LL	4.8	LL	•	Moderate	White	Lt Tawny	Brown	Black	Ind	120	1.5	1.0	44
Credenz CZ 4918 LL	4.9	LL	•	Moderate	Purple	Lt Tawny	Brown	Black	Ind	128	1.5	1.0	38
Credenz CZ 4938 LL	4.9	LL	•	Slight	Purple	Gray	Tan	Imp Blk	Ind	128	1.7	1.0	46
Credenz CZ 5147 LL	5.1	LL	No	Slight	Purple	Tawny	Tan	Black	Det	127	1.2	1.0	34
Credenz CZ 5150 LL	5.1	LL	No	Slight	Purple	Gray	Tan	Imp Blk	Sdt	127	1.5	1.0	44
Credenz CZ 5225 LL	5.2	LL	•	Slight	White	Tawny	Tan	Brown	Det	128	1.7	1.0	37
Credenz CZ 5328 LL	5.3	LL	•	Slight	Purple	Tawny	Tan	Brown	Det	129	1.5	1.0	38
Credenz CZ 5445 LL	5.4	LL	•	Slight	White	Tawny	Tan	Black	Det	131	1.4	1.0	37
Croplan RX4825	4.8	RR2X	No	Severe	Purple	Lt Tawny	Tan	Black	Ind	•	1.4	1.0	37
Croplan RX4927	4.9	RR2X	No	Moderate	Purple	Lt Tawny	Brown	Black	Ind	•	2.5	1.0	40
Croplan RX4928	4.9	RR2X	No	Slight	Purple	Lt Tawny	Tan	Black	Ind	•	1.9	1.0	41
Delta Grow DG44X25	4.4	RR2X	•	Slight	•	•	•	•	Ind	125	1.6	1.0	47
Delta Grow DG44X50	4.4	RR2X	•	Slight	•	•	•	•	Ind	119	2.2	1.2	50

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Table 15 (Continued). Agronomic Characteristics for Soybean Varieties and Experimental Lines in 2018 Arkansas Soybean Variety Performance Tests.

Variety/Experimental Line	Relative Maturity	Herbicide Technology	STS/ BOLT	Metribuzin Sensitivity	Flower Color	Pubescence Color	Pod Color	Hilum Color	Growth ¹² Habit	Days to ¹³ Maturity	Lodging ¹⁴ Score	Shatter ¹⁵ Score	Plant ¹⁶ Height
Delta Grow DG4587LL/STS	4.5	LL/STS	Yes	Moderate	Purple	Lt Tawny	Brown	Black	Ind	122	1.8	1.1	41
Delta Grow DG45X35	4.3	RR2X	•	Slight	•	•	•	•	Ind	126	2.2	1.2	46
Delta Grow DG4670RR2	4.6	RR2	No	Slight	Purple	Lt Tawny	Tan	Black	Ind	126	2.2	1.0	43
Delta Grow DG46X25	4.6	RR2X	No	Moderate	Purple	Lt Tawny	Brown	Black	Ind	120	1.4	1.0	45
Delta Grow DG4790RR2	4.7	RR2	No	Slight	White	Lt Tawny	Brown	Black	Ind	125	2.1	1.0	46
Delta Grow DG4880RR	4.8	RR1	No	Slight	White	Tawny	Brown	Black	Ind	127	2.3	1.0	44
Delta Grow DG48X45	4.8	RR2X	No	Moderate	Purple	Lt Tawny	Tan	Black	Ind	130	1.1	1.0	41
Delta Grow DG4967LL	4.9	LL	No	Moderate	White	Gray	Tan	Imp Blk	Ind	127	1.9	1.0	48
Delta Grow DG4970RR	4.8	RR1	No	Slight	Purple	Tawny	Tan	Black	Ind	128	3.6	1.0	44
Delta Grow DG4977LL/STS	4.9	LL/STS	Yes	Slight	Purple	Gray	Tan	Imp Blk	Ind	124	2.1	1.0	46
Delta Grow DG5170RR2	5.1	RR2	Yes	Slight	Purple	Lt Tawny	Tan	Black	Ind	132	2.3	1.0	47
Delta Grow DG52X15	5.0	RR2X	•	Moderate	•	•	•	•	Ind	129	1.9	1.0	46
Delta Grow DG5580RR2	5.5	RR2	No	Slight	Purple	Lt Tawny	Tan	Black	Det	131	2.1	1.0	36
Delta Grow DG5585RR2	5.5	RR2	No	Slight	Purple	Tawny	Tan	Brown	Det	131	1.4	1.0	40
Dyna-Gro S41XS98	4.1	RR2X/STS	Yes	Slight	Purple	Gray	Tan	Imp Blk	Ind	•	1.6	1.0	32
Dyna-Gro S43XS27	4.3	RR2X/STS	Yes	Slight	White	Lt Tawny	Brown	Black	Ind	127	1.5	1.0	45
Dyna-Gro S45XS37	4.5	RR2X/STS	Yes	Slight	White	Tawny	Brown	Black	Ind	126	2.2	1.1	46
Dyna-Gro S45XS66	4.5	RR2X/STS	Yes	Slight	Purple	Lt Tawny	Brown	Black	Ind	127	2.6	1.0	47
Dyna-Gro S48XS78	4.8	RR2X/STS	Yes	Moderate	Purple	Lt Tawny	Brown	Black	Ind	124	1.7	1.0	45
Dyna-Gro S48XT56	4.8	RR2X	No	Moderate	Purple	Lt Tawny	Tan	Black	Ind	130	1.1	1.0	41
Dyna-Gro S49LL34	4.9	LL	No	Slight	Purple	Gray	Tan	Imp Blk	Ind	127	1.9	1.0	45
Dyna-Gro S49XS76	4.9	RR2X/STS	Yes	Moderate	Purple	Lt Tawny	Brown	Black	Ind	129	1.3	1.0	45
Dyna-Gro S49XT39	4.9	RR2X	No	Moderate	Purple	Gray	Brown	Imp Blk	Ind	129	2.1	1.0	45
Dyna-Gro S52XT08	5.2	RR2X	No	Severe	White	Tawny	Brown	Black	Det	129	1.4	1.0	35
Dyna-Gro S56XT99	5.6	RR2X	No	Slight	White	Tawny	Tan	Black	Det	134	1.5	1.0	38
Dyna-Gro SX18652XS	5.2	RR2X/STS	•	Slight	White	Gray	•	Buff	Ind	129	1.5	1.0	46
Dyna-Gro SX18845XT	4.5	RR2X	•	Slight	Purple	Lt Tawny	•	Black	Ind	•	1.6	1.1	35
Dyna-Gro SX18854XT	5.4	RR2X	•	Moderate	Purple	Tawny	•	Black	Det	129	1.1	1.0	35
Eagle Seed ES4060RYX	4.0	RR2X	•	Slight	•	•	•	•	Ind	116	1.7	1.0	39
Eagle Seed ES4211RYX	4.2	RR2X	•	Moderate	•	•	•	•	Ind	116	1.7	1.0	40
Eagle Seed ES4460RYX	4.4	RR2X	Yes	Slight	Purple	Lt Tawny	Brown	Black	Ind	122	1.4	1.0	44
Eagle Seed ES4680RYX	4.6	RR2X	Yes	Slight	White	Tawny	Brown	Black	Ind	127	1.7	1.0	45
Eagle Seed ES4777RR	4.7	RR1	No	Slight	White		Tan	Black	Ind	127	1.9	1.1	43
Eagle Seed ES4840RYX	4.8	RR2X	No	Slight	White	Lt Tawny	Tan	Black	Ind	126	2.8	1.0	51
Eagle Seed ES4870RYX	4.8	RR2X	No	Slight	Purple	Lt Tawny	Brown	Black	Ind	122	1.6	1.0	48
Eagle Seed ES4998RR	4.9	RR1	No	Moderate	Purple	Lt Tawny	Brown	Black	Ind	120	2.6	1.0	42
Eagle Seed ES5220RYX	5.2	RR2X	•	Slight	•	•	•	•	Det	132	1.5	1.0	46
Eagle Seed ES5420RYX	5.4	RR2X	No	Slight	Purple	Gray	Tan	Imp Blk	Det	131	1.3	1.0	49
Eagle Seed ES5519RR	5.5	RR1	No	Slight	White		Tan	Black	Det	131	2.1	1.0	43
Eagle Seed ES5660RYX	5.6	RR2X	No	Severe	White	Tawny	Brown	Black	Det	130	1.3	1.0	37
Eagle Seed ES5930RYX	5.9	RR2X	Yes	Slight	White	Tawny	Tan	Black	Det	136	1.5	1.0	44
GDM Seeds EXP1X18	4.1	RR2X	•	Moderate	•	•	•	•	Ind	116	2.4	1.1	44
GDM Seeds EXP2X18	4.8	RR2X	•	Moderate	•	•	•	•	Ind	125	2.0	1.0	44
GDM Seeds EXP3X18	4.9	RR2X	•	Slight	•	•	•	•	Ind	129	2.1	1.0	44
GDM Seeds EXP4X18	5.2	RR2X	•	Slight	•	•	•	•	Det	129	1.5	1.0	45
GDM Seeds VIRTUE EX203	4.7	Conv	•	Slight	White	Lt Tawny	•	Black	Ind	129	2.2	1.0	44
GDM Seeds VIRTUE EX206	4.5	Conv	•	Slight	White	Lt Tawny	•	Black	Ind	124	1.3	1.0	40
GDM Seeds VIRTUE V46C202	4.6	Conv	•	Slight	Purple	Lt Tawny	•	Black	Ind	128	3.0	1.0	40
Go Soy 43C17S	4.3	Conv/STS	•	Slight	Purple	Tawny	•	Black	Ind	•	1.3	1.0	28
Go Soy 49G16	4.9	RR1	•	Slight	Purple	Tawny	•	Black	Ind	129	2.1	1.0	40
Go Soy 50G17	5.0	RR1	•	Slight	Purple	Tawny	•	Black	Sdt	126	3.1	1.0	38
Go Soy 51C17	5.1	Conv	•	Slight	Purple	Gray	•	Imp Blk	Det	127	1.7	1.0	36
Go Soy 56C16	5.6	Conv	No	Slight	White	Gray	Tan	Buff	Det	133	2.4	1.0	40
Go Soy E4510S	4.5	Conv/STS	•	Slight	Purple	Tawny	•	Black	Ind	115	1.0	1.0	37
Go Soy Ireane	4.9	Conv	No	Slight	White	Gray	Tan	Buff	Det	128	1.3	1.0	35
Go Soy Leland	5.0	Conv	No	Slight	White	Tawny	Tan	Black	Ind	•	1.1	1.0	29
Hefty H43x8	4.3	RR2X	No	Slight	Purple	Gray	Brown	Imp Blk	Ind	116	1.5	1.1	44
Hefty H45x8s	4.5	RR2X/STS	Yes	Slight	White	Lt Tawny	Brown	Black	Ind	127	1.5	1.0	44
Hefty H46x6	4.6	RR2X/STS	Yes	Slight	Purple	Lt Tawny	Brown	Black	Ind	127	2.7	1.0	46

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Table 15 (Continued). Agronomic Characteristics for Soybean Varieties and Experimental Lines in 2018 Arkansas Soybean Variety Performance Tests.

Variety/Experimental Line	Relative Maturity	Herbicide Technology	STS/ BOLT	Metribuzin Sensitivity	Flower Color	Pubescence Color	Pod Color	Hilum Color	Growth ¹² Habit	Days to Maturity ¹³	Lodging ¹⁴ Score	Shatter ¹⁵ Score	Plant ¹⁶ Height
Hefty H48x7	4.8	RR2X	No	Moderate	Purple	Lt Tawny	Tan	Black	Ind	130	1.1	1.0	42
Hefty H49x7s	4.9	RR2X/STS	Yes	Moderate	Purple	Lt Tawny	Brown	Black	Ind	129	1.7	1.0	47
LG C4710RX	4.7	RR2X	Yes	Moderate	White	Lt Tawny	Brown	Black	Ind	121	2.5	1.0	49
LG C4845RX	4.8	RR2X	No	Severe	Purple	Lt Tawny	Tan	Black	Ind	130	1.1	1.0	42
LG LGS4597RX	4.5	RR2X	No	Moderate	Purple	Lt Tawny	Brown	Black	Ind	120	1.4	1.0	43
LG LGS4624RX	4.6	RR2X	No	Moderate	Purple	Tan	Tan	Black	Ind	125	1.9	1.0	49
LG LGS4989RX	4.9	RR2X	No	Moderate	White	Lt Tawny	Brown	Black	Ind	126	2.1	1.0	45
Local Seed AV44U4LL	4.4	LL	No	Slight	White	Lt Tawny	Tan	Black	Ind	125	1.5	1.0	43
Local Seed AV47W2X	4.7	RR2X	No	Moderate	White	Gray	Brown	Black	Ind	126	1.7	1.0	44
Local Seed AV47W3LL	4.7	LL	No	Moderate	Purple	Tawny	Tan	Black	Ind	126	1.4	1.0	44
Local Seed AV49W3X	4.9	RR2X	No	Slight	Purple	Lt Tawny	Brown	Black	Ind	125	2.9	1.0	46
Local Seed AV51W1LL	5.1	LL	No	Slight	White	Tawny	Tan	Black	Ind	128	1.4	1.0	34
Local Seed LS4388XS	4.3	RR2X	Yes	Slight	Purple	Lt Tawny	Tan	Black	Ind	125	2.3	1.0	45
Local Seed LS4565XS	4.5	RR2X/STS	•	Severe	White	Tawny	Brown	Black	Ind	127	1.8	1.0	45
Local Seed LS4583X	4.5	RR2X	No	Moderate	Purple	Lt Tawny	Brown	Black	Ind	120	1.5	1.0	45
Local Seed LS4677X	4.6	GT/LL	No	Moderate	White	Lt Tawny	Tan	•	Ind	124	1.5	1.0	44
Local Seed LS4689X	4.6	RR2X	No	Moderate	Purple	Tawny	Tan	Black	Ind	123	1.9	1.0	50
Local Seed LS4889XS	4.8	RR2X/STS	Yes	Slight	Purple	Lt Tawny	Tan	Black	Ind	126	2.8	1.0	50
Local Seed LS4966X	4.9	RR2X	No	Moderate	Purple	Lt Tawny	Tan	Black	Ind	129	1.0	1.0	41
Local Seed LS4968XS	4.9	RR2X/STS	Yes	Slight	Purple	Lt Tawny	Brown	Black	Ind	128	1.5	1.0	48
Local Seed LS4988X	4.9	RR2X	No	Slight	Purple	Lt Tawny	Tan	Imp Blk	Ind	125	2.0	1.0	41
Local Seed LS5087X	5.0	RR2X	No	Moderate	Purple	Lt Tawny	Tan	Black	Ind	129	1.8	1.0	44
Mission A4447NSXR2	4.4	RR2X	•	Moderate	Purple	Lt Tawny	•	Black	Ind	•	1.6	1.1	41
Mission A4637NSXR2	4.6	RR2X	•	Moderate	White	Lt Tawny	•	Black	Ind	•	2.1	1.1	37
Mission MEX4608	4.6	RR2X	•	Slight	Purple	Tawny	•	Black	Ind	•	1.9	1.3	44
Mission MEX4619X	4.6	RR2X	•	Slight	White	Gray	•	Buff	Ind	•	1.6	1.0	38
Mission MEX4808	4.8	RR2X	•	Slight	Purple	Lt Tawny	•	Black	Ind	•	2.4	1.0	39
Mission MEX4908	4.9	RR2X	•	Slight	Purple	Lt Tawny	•	Black	Ind	•	1.8	1.0	40
NK S39-R9X	3.9	RR2X	No	Slight	Purple	Gray	Brown	Imp Blk	Ind	•	1.9	1.0	34
NK S43-V3X	4.3	RR2X	No	Slight	Purple	Lt Tawny	Tan	Black	Ind	•	1.7	1.3	36
NK S45-J3X	4.5	RR2X	No	Slight	Purple	Gray	Brown	Imp Blk	Ind	•	1.2	1.0	32
NK S45-K5X	4.5	RR2X	No	Moderate	Purple	Lt Tawny	Brown	Brown	Ind	•	1.4	1.0	33
NK S45-Z5XS	4.5	RR2X/STS	Yes	Severe	Purple	Lt Tawny	Brown	Black	Ind	•	1.1	1.0	32
NK S50-G9X	5.0	RR2X	Yes	Slight	Purple	Lt Tawny	Tan	Black	Ind	•	2.7	1.0	38
NSGA DrewSoy 5.0	5.0	Conv	•	Slight	White	Tawny	•	Black	Sdt	•	1.3	1.0	29
Petrus Seed 479 GTS	4.7	RR1/STS	Yes	Slight	White	Tawny	Tan	Black	Ind	125	1.3	1.0	45
Petrus Seed 4916 GTS	4.9	RR1	No	Slight	Purple	Tawny	Tan	Black	Sdt	129	2.1	1.0	38
Pioneer P44A08L	4.4	LL	No	Slight	White	Lt Tawny	Brown	Black	Ind	126	2.0	1.0	42
Pioneer P45A19X	4.5	RR2X	No	Slight	Purple	Lt Tawny	Brown	Black	Ind	125	1.4	1.1	43
Pioneer P46A16R	4.6	RR1	No	Slight	White	Gray	Brown	Buff	Ind	125	1.5	1.0	46
Pioneer P46A57BX	4.6	RR2X	•	Slight	White	Lt Tawny	•	Black	Ind	122	1.7	1.0	44
Pioneer P47A76L	4.7	LL	No	•	Purple	Tawny	Tan	Black	Ind	126	1.3	1.0	43
Pioneer P48A60X	4.8	RR2X	No	Slight	Purple	Lt Tawny	Brown	Black	Ind	125	1.4	1.0	41
Pioneer P50A78L	5.0	LL	No	Slight	White	Tawny	Brown	Black	Ind	130	2.1	1.0	40
Progeny P4247LL	4.2	LL	No	Slight	Mixed	Lt Tawny	Brown	Black	Ind	116	1.4	1.0	40
Progeny P4255RX	4.2	RR2X	No	Slight	Purple	Gray	Tan	Imp Blk	Ind	120	1.8	1.1	40
Progeny P4318RX	4.3	RR2X	Yes	Moderate	White	Gray	Tan	Buff	Ind	123	2.5	1.1	42
Progeny P4444RXS	4.4	RR2X/STS	Yes	Slight	Purple	Lt Tawny	Brown	Black	Ind	120	1.7	1.0	41
Progeny P4570RXS	4.5	RR2X/STS	Yes	Slight	Purple	Gray	Brown	Buff	Ind	123	1.4	1.1	46
Progeny P4620RXS	4.6	RR2X/STS	Yes	Moderate	White	Tawny	Brown	Black	Ind	127	2.1	1.0	46
Progeny P4799RXS	4.7	RR2X/STS	Yes	Slight	White	Lt Tawny	Brown	Black	Ind	129	1.5	1.0	47
Progeny P4816RX	4.9	RR2X	No	Moderate	Purple	Lt Tawny	Tan	Black	Ind	130	1.2	1.0	40
Progeny P4851RX	4.8	RR2X	No	Slight	Purple	Lt Tawny	Brown	Black	Ind	130	2.9	1.0	44
Progeny P4930LL	4.9	LL	No	Moderate	Purple	Gray	Tan	Imp Blk	Ind	128	1.9	1.0	45
Progeny P4955RX	4.9	RR2X	•	Slight	Purple	Gray	•	Imp Blk	Ind	128	2.4	1.0	45
Progeny P4994RX	4.9	RR2X	No	Slight	White	Lt Tawny	Brown	Brown	Ind	126	1.7	1.0	41
Progeny P5016RXS	5.0	RR2X/STS	Yes	Moderate	Purple	Lt Tawny	Brown	Black	Ind	129	1.5	1.0	45
Progeny P5018RX	5.0	RR2X	No	Moderate	Purple	Lt Tawny	Tan	Black	Ind	129	1.9	1.0	45

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Table 15 (Continued). Agronomic Characteristics for Soybean Varieties and Experimental Lines in 2018 Arkansas Soybean Variety Performance Tests.

Variety/Experimental Line	Relative Maturity	Herbicide Technology	STS/BOLT	Metribuzin Sensitivity	Flower Color	Pubescence Color	Pod Color	Hilum Color	Growth Habit ¹²	Days to Maturity ¹³	Lodging Score ¹⁴	Shatter Score ¹⁵	Plant Height ¹⁶
Progeny P5252RX	5.2	RR2X	•	Slight	White	Gray	•	Buff	Ind	130	1.6	1.0	43
Progeny P5279RXS	5.2	RR2X/STS	Yes	Slight	Purple	Gray	Brown	Imp Blk	Ind	128	1.6	1.0	46
Progeny P5414LLS	5.4	LL/STS	Yes	Slight	White	Tawny	Tan	Black	Det	130	1.3	1.0	39
Progeny P5554RX	5.4	RR2X	No	Slight	White	Tawny	Tan	Black	Det	133	1.4	1.0	38
Progeny P5688RX	5.6	RR2X	No	Slight	White	Tawny	Brown	Black	Det	134	1.6	1.0	37
R12-6751RR	5.2	RR1	•	Slight	White	Gray	•	Buff	Det	130	1.5	1.0	38
R13-13997	5.0	RR	•	Slight	•		•	•	Det	132	1.5	1.0	37
R13-1409	5.2	Conv	•	•	White	Tawny	•	•	Det	130	1.7	1.0	40
R13-818	5.3	Conv	•	Slight	Purple	Tawny	•	Black	Det	129	2.1	1.0	40
R14-10150	5.3	Conv	•	Slight	Purple	Gray	•	Imp Blk	Det	126	2.3	1.0	37
R14-1422	5.4	Conv	•	Slight	White	Gray	•	Brown	Det	131	2.1	1.0	37
R14-14648	6.2	Conv	•	Slight	Purple	Gray	•	Imp Blk	Det	131	2.2	1.0	38
R14-14797RR	5.2	RR1	•	Slight	Purple	•	Tan	Black	Det	128	1.7	1.0	38
R14-15079	5.3	Conv	•	Slight	Purple	Gray	•	•	Det	131	2.1	1.0	38
R14-356	5.2	Conv	•	Slight	White	Gray	•	Buff	Det	127	2.7	1.0	34
R14-898	5.3	Conv	•	Slight	White	Gray	•	Buff	Det	130	2.1	1.0	38
R15-1150	4.7	Conv	•	Slight	Purple	Gray	•	•	Det	120	1.8	1.0	38
R15-1194	5.2	Conv	•	Slight	Purple	Tawny	•	•	Det	127	1.3	1.0	36
R15-1587	5.1	Conv	•	Slight	Purple	Tawny	•	•	Det	130	1.5	1.0	34
R15-1687	5.3	Conv	•	Slight	White	Tawny	•	•	Det	131	1.7	1.0	36
R15-2422	4.7	Conv	•	Slight	Purple	Gray	•	•	Ind	126	3.3	1.0	42
R15-2465RR	5.1	RR1	•	Slight	White	Gray	•	•	Det	126	2.4	1.0	38
R15-489	5.4	Conv	•	Slight	White	Gray	•	•	Det	130	1.9	1.0	40
R15-5695	5.5	Conv	•	Slight	Purple	Tawny	•	•	Det	132	1.3	1.0	38
R15-818	4.6	Conv	•	Slight		Gray	•	•	Det	121	1.3	1.0	36
REV 4679X	4.6	RR2X	No	Moderate	Purple	Tawny	Tan	Black	Ind	127	1.3	1.0	42
REV 46L99	4.6	LL	No	Slight	White	Tawny	Brown	Black	Ind	125	1.5	1.0	43
REV 47L38	4.7	LL	No	Slight	Purple	Tawny	Tan	Black	Ind	126	1.4	1.0	44
REV 4857X	4.8	RR2X	No	Slight	White	Gray	Brown	Buff	Ind	128	1.7	1.0	44
REV 4927X	4.9	RR2X	No	Slight	Purple	Lt Tawny	Brown	Black	Ind	125	3.1	1.0	47
REV 49L88	4.9	LL	No	Slight	White	Tawny	Brown	Imp Blk	Ind	131	2.2	1.0	42
REV 54L18	5.4	LL	No	Slight	White	Tawny	Brown	Black	Det	129	1.3	1.0	34
S13-10590C	4.3	Conv	•	Slight	White	Tawny	•	Black	Ind	125	1.6	1.0	40
S13-2743C	4.1	Conv	•	Moderate	White	Gray	•	Buff	Ind	115	1.3	1.0	41
S14-9051R	4.7	RR1	•	Slight	White	Gray	•	Buff	Ind	128	1.5	1.0	40
S15-10434C	5.5	Conv	•	Moderate	Purple	Tawny	•	Black	Det	133	2.8	1.0	36
TN16-520R1	4.9	RR1	•	Slight	White	Gray	•	Buff	Det	128	1.2	1.0	36
USG 7487XTS	4.8	RR2X/STS	Yes	Moderate	Purple	Grey	Tan	Imp Blk	Ind	122	1.6	1.0	50
USG 7489XTS	4.8	RR2X/STS	No	Slight	Purple	Lt Tawny	Tan	Black	Ind	131	1.1	1.0	40
USG 7496XTS	4.9	RR2X/STS	Yes	Moderate	Purple	Lt Tawny	Brown	Black	Ind	128	1.5	1.0	47
USG 7568XT	5.6	RR2X	•	Slight	White	Tawny	Brown	Black	Det	134	1.9	1.0	41
USG 75B75R	5.7	RR2	•	Slight	Purple	Tawny	Tan	Brown	Det	133	1.3	1.0	39

Key Codes for All Tables

“ • ” Information Not Available

¹Keiser = Northeast Research & Extension Center, Keiser, AR
Kibler = Vegetable Research Station, Kibler, AR
Marianna = Lon Mann Cotton Research Station, Marianna, AR
Poinsett Co. = Berger Farm, Weiner, AR
Rohwer = Rohwer Research Station, Rohwer AR

²At both Keiser and Marianna, non-Xtend soybean varieties showed symptoms consistent with injury attributed to off-target movement of dicamba.

³Average Yield from 2016 and 2018

⁴Average Yield from 2015, 2016, and 2018

⁵Average Yield from 2017 and 2018

⁶Average Yield from 2016, 2017 and 2018

⁷By using the greatest level of disease reported over the years tested, a standardized designation system for all disease and nematode screenings is as follows: **0-1 = Resistant, 2-3 = Moderately Resistant, 4-5 = Moderately Susceptible, 6-7 = Susceptible, 8-10=Very Susceptible**

⁸Evaluation of soybean cultivars for reaction to root-knot nematode was conducted in a greenhouse and field test. Nematode population density ranged from moderate to severe in the field and eggs of *M. incognita* were used as inoculum in the greenhouse test. Greenhouse tests were conducted at the Southeast Research and Extension Center, Hope, AR. Greenhouse root gall ratings were a visual assessment of the of the entire root system using a 0-10 scale where 0 = no galling and 10 = severe galling.

⁹Stem Canker Reaction-10 plants per plot were inoculated with infested toothpicks, replicated 3 times.

¹⁰Evaluation of soybean cultivars for reaction to diseases was conducted in field environments with moderate disease pressure and plots were inoculated with *Cercospora sojina*. Each brand/cultivar was repeated 3 times and each maturity group was arranged using a completely randomized block design at the Newport Extension Station, Newport, AR. FLS values represent a visual estimate of the percentage of leaf area affected by frogeye leaf spot based on a 0-9 scale.

¹¹Chloride 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.

¹²Soybean growth habit; Ind = Indeterminate; Det = Determinate

¹³Days to maturity represent the average number of days (of all locations of the Full-Season Planted Test) from planting until 80% of the soybeans in the plot were thought to be mature.

¹⁴Soybean 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.

¹⁵Soybean 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.

¹⁶Soybean plant height reported in inches and is an average of all locations of the Full-Season Planted Test.