

2020 Arkansas Soybean Performance Results, Disease Rating, and Agronomic Characteristics

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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 8 and 9**. 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 2020 Arkansas Soybean Performance Tests are found in **Tables 1**.

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 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 consist of cultural information that pertains to the 2020 University of Arkansas System Division of Agriculture Soybean Performance Trials (<http://arkansas-variety-testing.uark.edu>). **Tables 2 through 7** contain varietal yield information for 2018, 2019, and 2020. **Tables 8 and 9** 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.

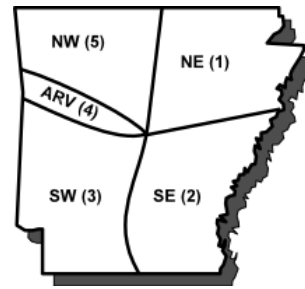


Figure 1. Area of Adaptation for Soybean Maturity Groups for All Production Systems

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 Arkansas Soybean Performance Tests, 2020.

Location	Planting Target	Soil Classification	Planting Date	Row Width	Non-Xtend Late MG 3 – Early MG 4	Non-Xtend Late MG 4	Non-Xtend MG 5	Xtend Late MG 3 – Early MG 4	Xtend Late MG 4	Xtend MG 5
NEREC, Keiser, AR – Irrigated	Earliest Opportunity	Sharkey clay	5/17/20	38" (single)	10/04/20	10/04/20	10/20/20	10/04/20	10/04/20	10/20/20
VRS, Kibler, AR – Irrigated	Earliest Opportunity	Dardanelle silt loam	6/3/20	36" (twin-row)	10/10/20	10/10/20	11/19/20	10/05/20	10/05/20	11/19/20
LMCRS, Marianna, AR – Irrigated	Earliest Opportunity	Calloway silt loam	5/16/20	38" (single)	10/03/20	10/03/20	10/05/20	10/03/20	10/03/20	10/05/20
NPEC, Newport, AR – Irrigated	Earliest Opportunity	Beulah sandy loam	5/21/20	30" (single)	10/22/20	10/22/20	11/2/20	10/22/20	10/22/20	11/2/20
PTRS, Colt, AR – Irrigated	Earliest Opportunity	Calloway silt loam	5/17/20	30" (single)	10/05/20	10/10/20	10/10/20	10/05/20	10/09/20	10/10/20
RRS, Rohwer, AR – Irrigated	Earliest Opportunity	Herbert silt loam	5/15/20	38" (twin-row)	9/30/20	9/30/20	10/04/20	9/24/20	9/24/20	10/04/20
RREC, Stuttgart, AR – Irrigated	Earliest Opportunity	Crowley silt loam	5/31/20	30" (single)	10/10/20	10/20/20	10/20/20	10/10/20	10/19/20	10/19/20
RREC, Stuttgart, AR – Non-irrigated	Earliest Opportunity	Crowley silt loam	6/13/20	30" (single)	10/18/20	10/18/20	10/18/20	10/17/20	10/17/20	10/17/20

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” of a variety mean indicates 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.

2020 Soybean Update

Table 3. 2020 Yield, 2-Year, and 3-Year Average Yield (bu/ac) of Relative Maturity 3.5-4.4 Xtend Soybean Varieties/Experimental Lines Across Arkansas, 2020^{1,2,3,4}

Variety/Experimental Line	Keiser 2020	Keiser 2-Year Average	Keiser 3-Year Average	Kibler 2020	Kibler 2-Year Average	Kibler 3-Year Average	Marianna 2020	Marianna 2-Year Average	Marianna 3-Year Average	Newport 2020	Pine Tree 2020	Pine Tree 2-Year Average	Rohwer 2020	2-Year Average	3-Year Average	Stuttgart 2020	Stuttgart 2-Year Average	Stuttgart Non-Irrg 2020	Stuttgart Non-Irrg 2-Year Average	All-Loc. Avg
----- (bu./ac) -----																				
Relative Maturity 3.5-4.4																				
Xtend Cultivars																				
Armor 44-D49	81.2	•	•	80.3	•	•	65.9	•	•	•	59.1	•	68.4	•	•	75.9	•	64.5	•	69.9
Armor 44-D92	80.7	84.8	•	74.9	•	•	71.8	69.7	•	•	61.8	56.0	71.0	•	•	79.9	68.3	57.2	49.9	71.9
Asgrow AG 43X0	80.7	85.0	•	73.2	•	•	71.5	•	•	•	65.8	59.1	64.0	•	•	83.3	71.3	65.9	54.8	71.5
Credenz CZ 4280X	80.7	82.4	•	68.1	•	•	64.2	63.6	•	•	59.0	56.5	59.1	•	•	75.1	66.6	49.2	45.0	65.1
Credenz CZ 4341X	80.1	•	•	69.5	•	•	60.0	•	•	•	66.1	•	69.2	•	•	84.1	•	50.0	•	69.8
Donmario Seeds 44X31	80.7	•	•	72.4	•	•	62.7	•	•	•	64.6	•	59.3	•	•	74.3	•	47.8	•	66.7
Dyna-Gro S43XS70	80.5	•	•	76.3	•	•	69.2	•	•	•	66.2	•	69.5	•	•	80.9	•	58.0	•	72.4
LGS4464RX	80.6	•	•	71.9	•	•	61.6	•	•	•	58.2	•	67.0	•	•	78.4	•	55.1	•	67.4
Local LS3976X	79.1	81.6	•	67.2	•	•	51.4	56.4	•	•	64.3	56.8	61.2	60.1	•	74.9	•	53.9	47.6	63.8
Local LS4299XS	79.9	81.8	•	80.2	•	•	68.0	•	•	•	76.0	63.2	66.3	70.7	•	86.1	•	57.3	51.7	75.3
Local LS4407X	80.9	•	•	69.8	•	•	59.7	•	•	•	55.7	•	61.9	•	•	79.5	•	59.3	47.6	65.3
Mission A4448X	78.4	78.3	•	70.1	•	•	61.3	64.0	•	•	64.6	59.9	65.9	55.6	•	74.8	65.7	57.0	51.2	67.3
Progeny 4265RXS	79.9	77.1	•	75.7	•	•	64.7	•	•	•	73.0	61.6	69.4	72.5	•	83.4	•	62.9	•	73.2
USG 7447XTS	81.1	•	•	77.5	•	•	57.2	•	•	•	70.1	•	69.3	•	•	81.5	•	59.5	•	71.1
Grand Mean	80.8	•	•	73.6	•	•	64.4	•	•	•	65.6	•	65.1	•	•	79.7	•	57.3	•	•
LSD (5%)	1.8	•	•	5.6	•	•	7.4	•	•	•	9.9	•	8.3	•	•	7.2	•	5.0	•	•
C.V.	1.6	•	•	5.6	•	•	8.4	•	•	•	11.0	•	9.3	•	•	6.5	•	6.4	•	•

2020 Soybean Update

Table 4. 2020 Yield, 2-Year, and 3-Year Average Yield (bu/ac) of Relative Maturity 4.5-4.9 Non-Xtend Soybean Varieties/Experimental Lines Across Arkansas, 2020^{1,2,3,4}

Variety/Experimental Line	Keiser 2020	Keiser 2-Year Average	Keiser 3-Year Average	Kibler 2020	Kibler 2-Year Average	Kibler 3-Year Average	Marianna 2020	Marianna 2-Year Average	Marianna 3-Year Average	Newport 2020	Pine Tree 2020	Pine Tree 2-Year Average	Rohwer 2020	2-Year Average	3-Year Average	Stuttgart 2020	Stuttgart 2-Year Average	Stuttgart Non-Irrg 2020	Stuttgart Non-Irrg 2-Year Average	All-Loc. Avg
(bu./ac)																				
Relative Maturity 4.5-4.9																				
Non-Xtend Cultivars																				
Armor 46-E50	63.0	•	•	66.9	•	•	62.3	•	•	•	79.3	•	73.3	•	•	80.5	•	56.8	•	72.5
Armor 47-E02	60.1	•	•	64.7	•	•	74.4	•	•	•	66.7	•	71.3	•	•	74.2	•	50.0	•	70.3
Armor 48-E81	64.5	•	•	69.9	•	•	66.3	•	•	•	78.0	•	60.9	•	•	75.9	•	55.9	•	70.2
Delta Grow DG45E10	66.3	•	•	64.8	•	•	55.9	•	•	•	70.2	•	67.1	•	•	80.5	•	54.4	•	67.7
Delta Grow DG45E28XP	55.4	•	•	65.3	•	•	59.8	•	•	•	64.5	•	66.5	•	•	67.3	•	49.4	•	64.7
Delta Grow DG47E20/STS	59.2	•	•	62.9	•	•	64.1	•	•	•	69.7	•	69.0	•	•	69.1	•	50.9	•	67.0
Delta Grow DG47E80/STS	63.2	•	•	67.8	•	•	62.6	•	•	•	69.9	•	55.0	•	•	75.8	•	51.0	•	66.2
Delta Grow DG4880	53.7	•	•	65.3	•	•	56.9	•	•	•	69.0	•	71.2	•	•	70.2	•	50.7	•	66.5
Delta Grow DG48E10	62.0	70.9	•	72.9	•	•	65.1	68.3	•	•	69.4	64.9	56.5	59.9	•	74.0	70.9	51.1	47.9	67.6
Delta Grow DG48E49/STS	58.0	67.9	•	61.9	•	•	58.9	61.0	•	•	65.8	64.3	69.8	63.4	•	76.2	68.9	53.4	48.2	66.5
Delta Grow DG49E00/STS	61.7	•	•	70.7	•	•	51.4	•	•	•	77.8	•	63.9	•	•	67.3	•	55.6	•	66.2
Dyna-Gro S45E510	65.1	•	•	69.2	•	•	66.1	•	•	•	78.7	•	73.2	•	•	85.4	•	59.9	•	74.5
Dyna-Gro S46E591	62.4	•	•	63.3	•	•	68.7	•	•	•	72.3	•	69.1	•	•	72.8	•	49.4	•	69.2
Dyna-Gro S49EN79	60.0	72.0	76.0	70.0	•	•	69.3	70.3	•	•	75.1	•	61.8	60.0	•	69.1	67.3	58.0	•	69.0
Eagle Seed ES4772R2Y	71.7	•	•	72.5	•	•	62.5	•	•	•	77.6	•	72.0	•	•	82.8	•	58.8	•	73.5
Go Soy 463E20S	56.5	•	•	64.7	•	•	60.4	•	•	•	71.6	•	72.1	•	•	76.1	•	51.7	•	69.0
Go Soy 481E19	64.3	72.5	75.2	66.2	•	•	57.8	64.0	•	•	76.6	•	62.6	64.4	•	79.0	70.9	56.8	•	68.4
Go Soy 491E19S	61.9	•	•	67.6	•	•	57.8	•	•	•	74.9	•	52.5	•	•	71.3	•	53.0	•	64.8
GT Ireane	64.2	•	•	66.4	•	•	66.9	•	•	•	71.8	•	71.4	•	•	76.8	•	59.0	•	70.7
Local LS4706GL	61.4	•	•	72.7	•	•	54.1	•	•	•	75.4	•	71.3	•	•	78.5	•	47.6	•	70.4
Local ZS4694E3S	62.4	•	•	66.5	•	•	57.8	•	•	•	72.7	68.3	67.5	•	•	81.5	•	56.5	•	69.2
Petrus Seed 4619 GTS	60.3	•	•	60.5	•	•	53.8	•	•	•	67.2	•	65.2	•	•	78.2	•	49.9	•	65.0
Petrus Seed 4916 GT	61.1	65.5	67.0	56.1	61.9	•	69.7	66.5	69.1	•	67.1	•	66.6	63.7	59.8	72.4	67.4	51.9	•	66.4
Pioneer P47A76L	64.3	•	•	67.9	•	•	54.4	59.9	•	•	75.9	•	75.3	70.7	•	83.7	•	54.2	•	71.5
Pioneer P49A41L	70.9	•	•	78.8	•	•	62.4	•	•	•	82.7	•	87.2	•	•	87.8	•	63.8	•	79.8
Pioneer P49T62E	65.1	•	•	70.1	•	•	61.8	•	•	•	66.9	•	60.3	•	•	79.6	•	55.7	•	67.7
Progeny 4602LR	61.7	•	•	68.1	•	•	68.8	•	•	•	75.8	•	70.4	•	•	75.7	•	39.6	•	71.8
Progeny 4682E3	63.5	72.7	•	65.8	•	•	64.9	66.5	•	•	70.2	70.5	55.8	59.5	•	81.0	72.7	51.6	45.7	67.5
Progeny 4775E3S	60.5	70.4	•	65.0	•	•	68.0	69.5	•	•	72.9	66.7	75.3	70.3	•	72.9	66.5	52.7	48.3	70.8
Progeny 4807E3S	64.2	•	•	74.6	•	•	55.8	•	•	•	77.3	•	69.2	•	•	79.3	•	51.2	•	71.2

2020 Soybean Update

Table 5. 2020 Yield, 2-Year, and 3-Year Average Yield (bu/ac) of Relative Maturity 4.54-9 Xtend Soybean Varieties/Experimental Lines Across Arkansas, 2020^{1,2,3,4}

Variety/Experimental Line	Keiser 2020	Keiser 2-Year Average	Keiser 3-Year Average	Kibler 2020	Kibler 2-Year Average	Kibler 3-Year Average	Marianna 2020	Marianna 2-Year Average	Marianna 3-Year Average	Newport 2020	Pine Tree 2020	Pine Tree 2-Year Average	Rohwer 2020	2-Year Average	3-Year Average	Stuttgart 2020	Stuttgart 2-Year Average	Stuttgart Non-Irrg 2020	Stuttgart Non-Irrg 2-Year Average	All-Loc. Avg
------(bu./ac)-----																				
Relative Maturity 4.5-4.9																				
Xtend Cultivars																				
AgriGold G4620RX	71.2	•	•	66.8	•	•	61.8	•	•	•	77.8	•	74.1	•	•	88.1	•	61.1	•	73.7
AgriGold G4820RX	81.4	•	•	74.3	•	•	65.4	•	•	•	82.4	•	73.1	•	•	82.9	•	62.5	•	75.6
AgriGold G4995RX	75.1	•	•	75.2	75.6	•	62.9	68.3	•	•	72.2	•	69.8	71.2	•	83.1	•	57.8	•	72.6
Armor 46-D09	77.3	82.4	•	74.4	•	•	66.2	66.7	•	•	81.5	70.0	74.7	67.4	•	80.5	70.2	58.6	53.0	75.4
Armor 48-D25	78.0	79.2	•	72.3	•	•	74.1	70.4	•	•	76.6	66.0	68.9	67.7	•	84.1	74.7	60.9	53.6	75.2
Armor 49-D14	73.0	•	•	70.5	•	•	66.1	•	•	•	76.3	•	69.3	•	•	78.0	•	54.9	•	72.0
Asgrow AG 45X8	74.6	•	•	69.1	•	•	68.3	69.8	•	•	67.1	•	65.3	64.5	•	76.5	•	54.2	•	69.2
Asgrow AG 46X0	78.1	83.7	•	70.1	•	•	69.3	66.3	•	•	76.3	65.4	74.2	73.8	•	82.8	72.2	55.7	48.7	74.5
Asgrow AG 46X6	75.6	81.0	•	71.7	71.4	76.8	70.1	68.8	69.5	•	75.1	67.1	75.9	66.7	•	82.0	72.3	59.0	50.6	75.0
Asgrow AG 48X9	73.2	78.3	•	75.3	76.5	•	73.2	68.7	68.8	•	73.1	65.9	72.8	67.7	•	78.0	68.3	56.1	49.2	74.5
Asgrow AG 49X0	75.6	•	•	66.5	•	•	67.3	•	•	•	75.4	•	66.5	•	•	79.9	•	55.8	•	71.1
Credenz CZ 4570X	74.0	74.3	•	70.2	•	•	62.7	64.4	•	•	76.3	66.1	52.6	52.0	•	72.8	67.4	55.5	48.6	66.9
Credenz CZ 4600X	71.9	76.2	•	70.4	•	•	62.0	62.7	•	•	71.0	61.1	55.0	54.7	•	70.1	64.2	53.7	47.1	65.7
Credenz CZ 4730X	72.1	•	•	67.6	•	•	65.9	•	•	•	71.5	•	71.3	•	•	71.8	•	57.3	•	69.6
Credenz CZ 4770X	73.1	79.3	•	70.0	•	•	63.0	66.7	•	•	74.0	63.8	69.9	67.7	•	86.8	73.0	50.8	43.9	72.7
Credenz CZ 4810X	71.5	•	•	68.7	•	•	61.5	•	•	•	76.4	•	65.0	•	•	74.6	•	50.4	•	69.3
Credenz CZ 4869X	74.5	80.0	•	74.4	•	•	63.6	65.1	•	•	72.0	63.9	65.5	63.4	•	80.4	69.2	50.1	44.8	71.2
Credenz CZ 4941X	71.9	•	•	66.9	•	•	70.7	•	•	•	72.5	•	53.2	•	•	76.7	•	58.0	•	68.0
Credenz CZ 4979X	69.5	75.9	•	70.1	•	•	62.0	64.9	•	•	69.6	63.3	56.7	61.3	•	79.6	70.6	52.1	46.3	67.6
Delta Grow DG46X05/STS	77.3	•	•	71.1	•	•	60.3	•	•	•	77.3	•	64.8	•	•	79.2	•	58.2	•	70.5
Delta Grow DG46X65/STS	76.0	82.1	•	72.8	•	•	67.1	66.9	•	•	70.0	62.9	71.4	63.9	•	85.4	74.4	58.4	45.7	73.3
Delta Grow DG47X95/STS	74.4	•	•	71.1	•	•	54.6	•	•	•	74.5	•	59.8	•	•	76.8	•	59.7	•	67.4
Delta Grow DG48X05	76.9	82.0	•	68.5	•	•	57.1	64.3	•	•	78.5	67.7	66.9	62.3	•	83.9	72.6	56.1	47.3	71.0
Delta Grow DG48X45	72.9	79.3	64.5	74.8	79.0	•	70.4	67.3	71.1	•	75.5	63.7	64.9	65.8	67.1	87.7	74.7	56.5	50.9	74.6
Delta Grow DG49X15	69.8	76.2	•	69.2	•	•	62.7	63.9	•	•	68.0	61.4	66.8	57.5	•	79.0	71.9	52.7	46.5	69.1
Delta Grow DG49X25	74.8	•	•	62.3	•	•	70.0	•	•	•	71.8	•	61.2	•	•	77.9	•	54.3	•	68.6
Donmario Seeds 45X61	73.4	•	•	74.9	•	•	59.8	•	•	•	73.4	•	65.2	•	•	79.6	•	60.5	•	70.6
Donmario Seeds 47X39	71.2	80.5	•	66.0	•	•	55.2	•	•	•	73.5	•	64.8	61.5	•	73.3	69.7	49.2	•	66.6
Donmario Seeds 49X13	74.3	•	•	61.6	•	•	59.4	•	•	•	70.4	•	65.7	•	•	77.6	•	55.8	•	66.9
Dyna-Gro S46XS60	72.9	78.6	•	70.2	•	•	75.9	72.2	•	•	77.5	•	74.6	•	•	84.9	•	59.2	48.5	76.6

2020 Soybean Update

Table 5 (Continued). 2020 Yield, 2-Year, and 3-Year Average Yield (bu/ac) of Relative Maturity 4.54.9 Xtend Soybean Varieties/Experimental Lines Across Arkansas, 2020^{1,2,3,4}

Variety/Experimental Line	Keiser 2020	Keiser 2-Year Average	Keiser 3-Year Average	Kibler 2020	Kibler 2-Year Average	Kibler 3-Year Average	Marianna 2020	Marianna 2-Year Average	Marianna 3-Year Average	Newport 2020	Pine Tree 2020	Pine Tree 2-Year Average	Rohwer 2020	2-Year Average	3-Year Average	Stuttgart 2020	Stuttgart 2-Year Average	Stuttgart Non-Irrg 2020	Stuttgart Non-Irrg 2-Year Average	All-Loc. Avg
(bu./ac)																				
Relative Maturity 4.5-4.9																				
Xtend Cultivars																				
Dyna-Gro S47XT20	72.9	75.5	•	66.8	•	•	63.4	63.5	•	•	74.8	•	75.8	•	•	76.7	•	57.8	49.6	71.5
Dyna-Gro S48XT40	71.5	•	•	65.0	•	•	71.8	•	•	•	75.7	•	71.1	•	•	74.0	•	53.4	•	71.5
Dyna-Gro S48XT90	74.7	•	•	69.8	•	•	72.0	•	•	•	73.9	•	71.9	•	•	78.2	•	56.8	•	73.2
Dyna-Gro S49XT70	74.5	76.5	•	70.7	•	•	56.6	62.4	•	•	74.6	•	67.8	•	•	75.7	•	54.0	46.1	69.1
Eagle Seed ES4640RYX	69.4	•	•	75.5	•	•	64.8	•	•	•	77.3	•	72.7	•	•	84.9	•	60.9	•	75.0
Eagle Seed ES4880RYX	75.2	•	•	73.4	•	•	69.0	•	•	•	74.5	•	68.2	•	•	81.0	•	56.2	•	73.2
Integra 54606NS	74.6	•	•	72.7	•	•	62.9	•	•	•	78.0	•	69.8	•	•	80.5	•	58.2	•	72.8
Integra 54660NS	79.8	•	•	75.0	•	•	62.8	•	•	•	82.8	•	82.1	•	•	76.4	•	60.9	•	75.8
Integra 54816N	74.7	•	•	71.7	•	•	62.1	•	•	•	80.0	•	77.0	•	•	84.8	•	62.5	•	75.1
Integra 54891NS	77.4	•	•	76.2	•	•	68.0	•	•	•	77.2	•	70.5	•	•	77.3	•	58.5	•	73.8
Integra 54920NS	71.1	•	•	68.9	•	•	66.3	•	•	•	77.7	•	65.8	•	•	76.2	•	57.7	•	71.0
LGS4632RX	76.0	•	•	73.3	•	•	62.1	•	•	•	77.6	•	66.3	•	•	85.5	•	59.5	•	72.9
LGS4899RX	75.8	80.8	•	71.8	•	•	76.2	71.1	•	•	81.6	69.0	80.6	74.1	•	84.1	73.2	62.0	53.5	78.9
Local LS4565XS	73.9	82.2	•	75.2	•	•	63.8	65.9	66.7	•	77.7	•	78.2	74.8	•	82.2	•	57.8	47.4	75.4
Local LS4607XS	75.9	•	•	77.1	•	•	67.3	•	•	•	78.3	•	68.2	•	•	80.1	•	56.7	•	74.2
Local LS4795XS	72.6	•	•	77.2	•	•	70.6	•	•	•	79.0	68.9	74.8	•	•	82.9	•	59.7	50.5	76.9
Local LS4806XS	72.7	•	•	67.2	•	•	70.4	•	•	•	77.7	•	76.7	•	•	80.3	•	58.7	•	74.5
Local LS4999X	72.2	•	•	71.0	•	•	65.7	•	•	•	74.5	66.2	75.5	•	•	81.4	•	56.5	47.4	73.6
Mission A4618X	76.7	77.2	•	63.8	•	•	62.4	64.4	•	•	75.5	•	77.9	•	•	81.4	•	56.9	51.3	72.2
Mission A4828X R	72.9	•	•	72.6	•	•	64.5	•	•	•	71.6	•	67.9	•	•	71.9	•	54.4	•	69.7
Mission A4950X	75.8	80.3	•	74.6	•	•	61.6	65.1	•	•	74.8	•	70.7	•	•	75.2	•	59.0	49.9	71.4
Pioneer P46A86X	77.6	•	•	73.9	•	•	69.3	•	•	•	80.0	•	76.2	•	•	81.1	•	59.7	•	76.1
Pioneer P48A60X	77.7	83.1	•	75.7	75.4	75.4	59.6	65.2	66.4	•	80.3	•	80.5	75.9	•	73.1	75.7	56.3	47.8	73.8
Progeny 4444RXS	72.7	•	•	70.4	•	•	62.6	•	•	•	82.5	•	65.1	•	•	71.0	•	52.0	•	70.3
Progeny 4505RXS	72.7	•	•	73.5	•	•	55.3	•	•	•	77.0	•	69.2	•	•	80.1	•	60.8	•	71.0
Progeny 4620RXS	76.6	82.9	59.1	74.0	•	•	59.3	62.2	65.4	•	81.6	68.4	74.2	68.5	66.8	78.9	69.0	49.9	43.9	73.6
Progeny 4700RXS	74.0	•	•	78.7	•	•	55.7	•	•	•	80.3	•	71.4	•	•	80.1	•	59.6	•	73.2
Progeny 4816RXS	75.5	83.1	59.9	73.5	•	•	63.9	65.2	67.9	•	79.9	66.3	77.0	67.3	68.2	80.9	69.2	60.9	51.5	75.0
Progeny 4821RX	73.8	79.7	•	73.9	•	•	67.3	69.8	•	•	79.0	68.2	75.9	71.7	•	81.5	73.1	62.3	52.8	75.5
Progeny 4851RX	73.0	79.5	•	70.3	•	•	57.3	61.8	•	•	72.9	62.5	69.3	63.0	•	79.5	72.3	55.3	53.7	69.8

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Table 5 (Continued). 2020 Yield, 2-Year, and 3-Year Average Yield (bu/ac) of Relative Maturity 4.54.9 Xtend Soybean Varieties/Experimental Lines Across Arkansas, 2020^{1,2,3,4}

Variety/Experimental Line	Keiser 2020	Keiser 2-Year Average	Keiser 3-Year Average	Kibler 2020	Kibler 2-Year Average	Kibler 3-Year Average	Marianna 2020	Marianna 2-Year Average	Marianna 3-Year Average	Newport 2020	Pine Tree 2020	Pine Tree 2-Year Average	Rohwer 2020	2-Year Average	3-Year Average	Stuttgart 2020	Stuttgart 2-Year Average	Stuttgart Non-Irrg 2020	Stuttgart Non-Irrg 2-Year Average	All-Loc. Avg
------(bu./ac)-----																				
Relative Maturity 4.5-4.9																				
Xtend Cultivars																				
Progeny 4970RX	74.3	•	•	72.1	•	•	63.4	•	•	•	79.9	•	71.8	•	•	85.1	•	57.9	•	74.5
Taylor T4880XS	74.2	•	•	66.9	•	•	64.3	•	•	•	73.4	•	68.7	•	•	83.5	•	57.2	•	71.3
Taylor T4990XS	71.1	•	•	63.7	•	•	68.7	•	•	•	66.8	•	65.1	•	•	76.2	•	57.7	•	68.1
USG 7461XT	76.0	•	•	72.7	•	•	62.2	•	•	•	76.9	•	70.1	•	•	83.1	•	62.2	•	73.0
USG 7480XT	74.3	80.1	•	74.0	•	•	65.9	67.5	•	•	77.5	67.0	61.9	•	•	80.7	•	50.6	43.9	72.0
USG 7489XT	82.0	82.2	•	71.7	•	•	60.2	66.8	•	•	81.0	68.0	74.6	•	•	84.4	•	59.1	52.4	74.4
USG 7496XTS	77.5	79.0	•	69.7	69.3	•	70.2	71.1	71.4	•	73.9	65.8	65.8	67.7	•	78.9	75.7	58.3	50.7	71.7
Grand Mean	74.5	•	•	68.9	•	•	63.5	•	•	•	73.8	•	67.1	•	•	77.2	•	55.2	•	•
LSD	5.6	•	•	6.2	•	•	9.9	•	•	•	6.2	•	9.2	•	•	6.7	•	5.1	•	•
C.V.	5.5	•	•	6.6	•	•	11.5	•	•	•	6.3	•	10.2	•	•	6.5	•	6.9	•	•

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Table 7. 2020 Yield, 2-Year, and 3-Year Average Yield (bu/ac) of Relative Maturity 5.0-5.9 Xtend Soybean Varieties/Experimental Lines Across Arkansas, 2020^{1,2,3,4}

Variety/Experimental Line	Keiser 2020	Keiser 2-Year Average	Keiser 3-Year Average	Kibler 2020	Kibler 2-Year Average	Kibler 3-Year Average	Marianna 2020	Marianna 2-Year Average	Marianna 3-Year Average	Newport 2020	Pine Tree 2020	Pine Tree 2-Year Average	Rohwer 2020	2-Year Average	3-Year Average	Stuttgart 2020	Stuttgart 2-Year Average	Stuttgart Non-Irrg 2020	Stuttgart Non-Irrg 2-Year Average	All-Loc. Avg
-----(bu./ac)-----																				
Relative Maturity 5.0-5.9																				
Xtend Cultivars																				
Asgrow AG 52X9	73.5	80.7	77.8	70.0	68.7	•	66.8	66.5	66.4	68.7	60.9	64.5	59.4	61.0	•	82.4	•	55.1	47.6	67.9
Asgrow AG 53X0	74.3	80.2	•	73.6	•	•	62.3	66.0	•	75.4	64.7	65.1	67.6	65.3	•	74.2	•	58.0	52.7	68.4
Asgrow AG 53X9	75.7	•	•	64.5	68.4	•	65.8	69.1	•	73.4	71.4	•	73.1	73.8	•	86.6	•	56.8	•	72.3
Credenz CZ 5000X	75.0	•	•	75.0	•	•	65.1	•	•	64.5	64.7	•	60.2	•	•	80.7	•	49.4	•	69.1
Credenz CZ 5251X	72.3	•	•	71.6	•	•	66.5	•	•	68.4	68.6	•	66.0	•	•	77.3	•	57.6	•	70.0
Credenz CZ 5299X	66.1	73.2	•	75.3	•	•	61.2	63.4	•	73.8	66.0	60.8	55.6	56.2	•	73.8	•	53.2	48.0	66.4
Credenz CZ 5700X	55.5	•	•	65.0	•	•	58.3	•	•	56.8	60.7	•	60.1	•	•	64.7	•	61.6	•	61.8
Credenz CZ 6020X	54.8	•	•	73.4	•	•	52.7	•	•	64.9	59.8	•	64.9	•	•	61.4	•	56.3	•	62.4
Delta Grow DG52X05/STS	63.6	73.3	•	72.7	•	•	48.2	55.7	•	68.5	67.8	60.1	68.5	59.2	•	72.1	68.5	54.8	47.6	65.9
Delta Grow DG54X25	64.4	78.2	•	56.7	•	•	57.2	59.0	•	56.9	62.9	59.7	63.0	61.0	•	72.4	68.0	51.6	44.8	62.4
Donmario Seeds 51X61	75.4	•	•	82.3	•	•	66.8	•	•	75.4	63.1	•	64.5	•	•	81.9	•	52.9	•	71.7
Dyna-Gro S52XS39	63.2	72.1	•	82.0	•	•	59.5	59.1	•	74.6	67.8	62.7	61.7	56.0	•	78.3	•	57.9	49.9	69.9
Local LS5009XS	69.6	•	•	73.3	•	•	64.7	•	•	77.3	72.9	•	68.6	•	•	82.3	•	63.5	•	72.4
Local LS5087X	74.2	84.5	78.0	72.1	•	•	63.0	67.6	69.3	71.6	67.9	63.7	60.8	60.4	•	82.7	•	58.7	52.2	69.3
Local LS5386X	71.9	77.4	•	77.5	•	•	62.8	64.9	•	62.6	67.0	62.6	57.3	53.2	•	81.1	•	54.8	51.9	69.1
Progeny 5016RXS	72.9	79.6	56.9	73.8	•	•	66.8	70.8	70.9	55.0	63.6	62.7	63.2	65.0	65.3	82.2	73.6	62.6	56.1	69.9
Progeny 5170RX	69.6	79.1	•	86.9	•	•	63.9	66.5	•	61.0	66.8	59.7	63.0	62.1	•	75.2	70.7	59.4	48.3	71.2
Progeny 5252RX	59.7	69.5	•	65.5	•	•	60.2	64.8	•	76.0	63.4	67.1	57.6	57.4	•	72.1	68.5	55.8	51.2	63.8
Progeny 5554RX	61.2	67.2	•	77.4	•	•	62.7	66.7	•	69.5	63.5	68.4	67.1	59.1	•	72.6	66.4	48.8	45.5	68.7
Grand Mean	68.4	•	•	71.4	•	•	62.0	•	•	69.0	65.3	•	63.2	•	•	76.0	•	55.6	•	•
LSD (5%)	4.8	•	•	10.6	•	•	6.4	•	•	10.5	5.3	•	10.6	•	•	4.5	•	6.6	•	•
C.V.	5.1	•	•	10.9	•	•	7.6	•	•	11.2	6.0	•	12.3	•	•	4.4	•	8.7	•	•

2020 Soybean Update

Table 8. Nematode, Disease, and Chloride Sensitivity Ratings for Soybean Varieties in 2020 Arkansas Soybean Variety Performance Test^{5, 6}.

Variety/Experimental Line	RKN GH Gall Rating	Stem Canker ⁷	Cercospora Leaf Blight	Frogeye Leaf Spot	Target Leaf Spot	Chloride Reaction ⁸
AgriGold G4620RX	MR	R	MR	R	MR	Strong Excluder
AgriGold G4820RX	MR	R	MR	R	R	Strong Excluder
AgriGold G4995RX	MR	R	MR	R	R	Strong Includer
Armor 44-D49	MR	R	MR	R	MR	Mixed
Armor 44-D92	MR	R	MS	R	S	Strong Excluder
Armor 44-E44	MR	R	MR	R	MR	Moderate Excluder
Armor 46-D09	MR	R	MR	R	MR	Moderate Excluder
Armor 46-E50	MR	R	MS	R	MR	Strong Excluder
Armor 47-E02	MR	R	MR	MS	R	Strong Excluder
Armor 48-D25	MR	R	MR	R	R	Strong Excluder
Armor 48-E81	MR	R	MR	MR	R	Strong Includer
Armor 49-D14	MR	R	MR	MR	R	Mixed
Armor 51-E53	MR	R	MR	MS	MR	Strong Includer
Asgrow AG 43X0	MR	R	MR	R	S	Moderate Excluder
Asgrow AG 45X8	MR	R	MR	R	MR	Moderate Includer
Asgrow AG 46X0	MR	R	MR	R	MR	Strong Excluder
Asgrow AG 46X6	MR	S	MR	MR	R	Strong Excluder
Asgrow AG 48X9	MR	S	MR	MR	MR	Strong Excluder
Asgrow AG 49X0	MR	R	MR	R	R	Strong Includer
Asgrow AG 52X9	MR	S	MS	MR	R	Moderate Includer
Asgrow AG 53X0	MR	R	MS	MR	R	Strong Includer
Asgrow AG 53X9	MR	S	MS	R	MR	Moderate Includer
Credenz CZ 3930GTLL	R	R	MR	R	R	Mixed
Credenz CZ 4280X	MR	R	MR	R	MR	Moderate Includer
Credenz CZ 4341X	MR	R	MS	R	MS	Mixed
Credenz CZ 4410GTLL	MR	R	MR	R	MR	Mixed
Credenz CZ 4570X	MR	R	MS	MR	MR	Strong Includer
Credenz CZ 4600X	MR	R	MR	MR	R	Mixed
Credenz CZ 4730X	MR	R	MS	R	MR	Strong Excluder
Credenz CZ 4770X	MR	R	MR	MR	R	Mixed
Credenz CZ 4810X	MR	R	MR	MR	R	Strong Includer
Credenz CZ 4869X	MR	R	MR	R	R	Mixed
Credenz CZ 4941X	MR	R	MR	MR	MR	Mixed
Credenz CZ 4979X	MR	R	MR	MR	R	Mixed
Credenz CZ 5000X	MR	R	MR	MR	MR	Strong Includer
Credenz CZ 5251X	MR	R	MR	MR	MR	Moderate Includer
Credenz CZ 5299X	MR	R	MR	MR	MR	Moderate Includer
Credenz CZ 5700X	MR	R	MR	R	MR	Moderate Excluder
Credenz CZ 6020X	MR	R	MR	MR	MR	Moderate Excluder
Delta Grow DG45E10	MR	R	S	R	MR	Mixed
Delta Grow DG45E28XP	MR	R	MR	R	R	Mixed
Delta Grow DG46X05/STS	MR	R	MR	VS	R	Strong Includer
Delta Grow DG46X65/STS	MR	R	MS	R	R	Strong Excluder
Delta Grow DG47E20/STS	MR	R	MR	MR	R	Strong Excluder
Delta Grow DG47E80/STS	MR	R	MR	S	R	Strong Includer
Delta Grow DG47X95/STS	MR	R	MR	MR	MR	Mixed
Delta Grow DG4880	MR	R	MR	MS	MR	Strong Excluder
Delta Grow DG48E10	MR	R	MR	MR	R	Moderate Includer
Delta Grow DG48E49/STS	MR	R	MR	MR	R	Strong Excluder
Delta Grow DG48X05	MR	S	MR	MR	R	Mixed

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Table 8. Nematode, Disease, and Chloride Sensitivity Ratings for Soybean Varieties in 2020 Arkansas Soybean Variety Performance Test^{5, 6}.

Variety/Experimental Line	RKN GH Gall Rating	Stem Canker ⁷	Cercospora Leaf Blight	Frogeye Leaf Spot	Target Leaf Spot	Chloride Reaction ⁸
Delta Grow DG48X45	MR	R	MR	MR	MR	Strong Excluder
Delta Grow DG49E00/STS	MR	R	MR	MR	MR	Strong Includer
Delta Grow DG49X15	MR	S	MS	MR	R	Mixed
Delta Grow DG49X25	MR	R	MS	MR	MR	Moderate Includer
Delta Grow DG50E10XP	MR	R	MR	MR	MR	Strong Excluder
Delta Grow DG51E60	MR	R	MR	R	MR	Moderate Excluder
Delta Grow DG52E15/STS	MR	R	MR	MR	MR	Strong Includer
Delta Grow DG52E22	MR	S	S	MR	R	Strong Includer
Delta Grow DG52X05/STS	MR	R	MR	MR	MR	Mixed
Delta Grow DG54X25	MR	R	MR	R	MR	Moderate Includer
Donmario Seeds 44X31	MR	R	MS	R	MS	Mixed
Donmario Seeds 45X61	MR	R	MR	MR	MR	Mixed
Donmario Seeds 47X39	MR	R	MR	MS	R	Strong Includer
Donmario Seeds 49X13	MR	R	MR	MR	MR	Strong Includer
Donmario Seeds 51X61	MR	R	MR	MR	MR	Strong Includer
Dyna-Gro S43EN61	MR	R	MR	R	MR	Mixed
Dyna-Gro S43XS70	MR	R	MS	R	MS	Strong Excluder
Dyna-Gro S45ES10	MR	R	MR	R	MR	Strong Excluder
Dyna-Gro S46ES91	MR	R	MR	R	MR	Strong Excluder
Dyna-Gro S46XS60	MR	R	MS	MR	MR	Strong Excluder
Dyna-Gro S47XT20	MR	R	MR	R	MR	Strong Excluder
Dyna-Gro S48XT40	MR	R	MR	MR	R	Moderate Includer
Dyna-Gro S48XT90	MR	R	MR	R	R	Mixed
Dyna-Gro S49EN79	MR	R	MR	R	R	Mixed
Dyna-Gro S49XT70	MR	R	MR	R	MR	Strong Excluder
Dyna-Gro S52XS39	MR	R	MR	MR	R	Strong Includer
Eagle Seed ES4640RYX	MR	R	MR	MR	MR	Strong Excluder
Eagle Seed ES4772R2Y	MR	R	MR	MR	R	Strong Includer
Eagle Seed ES4880RYX	MR	R	MR	R	R	Strong Includer
Go Soy 463E20S	MR	R	MS	R	MR	Strong Excluder
Go Soy 481E19	MR	R	MS	MR	R	Moderate Includer
Go Soy 491E19S	MR	R	MR	R	MR	Strong Includer
Go Soy 512E21	MR	R	MR	MS	MR	Moderate Excluder
GT Ireane	MR	R	MR	R	MR	Strong Excluder
Integra 54606NS	MR	R	MR	R	MR	Strong Includer
Integra 54660NS	MR	R	MS	VS	R	Strong Excluder
Integra 54816N	MR	R	MR	MR	R	Moderate Excluder
Integra 54891NS	MR	R	MR	MR	R	Mixed
Integra 54920NS	MR	R	MR	R	MR	Strong Includer
LGS4464RX	MR	R	MR	R	MR	Mixed
LGS4632RX	MR	R	MR	R	MR	Strong Includer
LGS4899RX	MR	R	MS	MR	MR	Strong Excluder
Local LS3906GL	R	R	R	R	MR	Mixed
Local LS3976X	R	R	FALSE	FALSE	FALSE	Strong Includer
Local LS4299XS	MR	R	MS	R	S	Strong Excluder
Local LS4407X	MR	R	MR	R	MR	Mixed
Local LS4565XS	MR	R	MR	MR	R	Strong Excluder
Local LS4607XS	MR	R	MR	R	R	Mixed
Local LS4706GL	MR	R	MR	MR	MR	Strong Excluder
Local LS4795XS	MR	R	MR	R	R	Strong Excluder

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Table 8. Nematode, Disease, and Chloride Sensitivity Ratings for Soybean Varieties in 2020 Arkansas Soybean Variety Performance Test^{5,6}.

Variety/Experimental Line	RKN GH Gall Rating	Stem Canker ⁷	Cercospora Leaf Blight	Frogeye Leaf Spot	Target Leaf Spot	Chloride Reaction ⁸
Local LS4806XS	MR	R	MR	MR	R	Strong Excluder
Local LS4999X	MR	R	MR	R	MR	Strong Excluder
Local LS5009XS	MR	R	MR	MR	R	Moderate Excluder
Local LS5087X	MR	R	MR	R	R	Strong Includer
Local LS5386X	MR	R	MR	MR	R	Strong Includer
Local ZS4694E3S	MR	R	MR	R	R	Strong Excluder
Local ZS5098E3	MR	R	MR	MS	R	Strong Includer
Mission A4448X	MR	R	MR	R	MR	Mixed
Mission A4618X	MR	R	MR	R	MR	Strong Excluder
Mission A4828X R	MR	R	MR	MR	R	Moderate Includer
Mission A4950X	MR	R	MR	MR	MR	Strong Includer
Petrus Seed 4619 GTS	MR	R	MR	MR	MR	Mixed
Petrus Seed 4916 GT	MR	S	MR	MR	R	Strong Excluder
Petrus Seed 5319 GT	MR	R	MS	R	MR	Moderate Includer
Pioneer P46A86X	MR	R	MR	MR	R	Strong Excluder
Pioneer P47A76L	MR	R	MR	MR	R	Strong Excluder
Pioneer P48A60X	MR	R	MS	MR	R	Strong Excluder
Pioneer P49A41L	MR	R	MR	R	R	Strong Excluder
Pioneer P49T62E	MR	R	MR	S	R	Strong Includer
Progeny 4241E3	MR	R	MR	R	MR	Mixed
Progeny 4265RXS	MR	S	MR	R	MR	Strong Excluder
Progeny 4444RXS	MR	R	MR	R	R	Strong Includer
Progeny 4505RXS	MR	R	MR	MR	MR	Moderate Includer
Progeny 4602LR	MR	R	MR	R	MR	Strong Excluder
Progeny 4620RXS	MR	R	MS	R	R	Strong Excluder
Progeny 4682E3	MR	R	MR	MS	R	Moderate Includer
Progeny 4700RXS	MR	R	MR	R	R	Mixed
Progeny 4775E3S	MR	R	MR	MR	R	Strong Excluder
Progeny 4807E3S	MR	R	MR	MR	R	Moderate Includer
Progeny 4816RXS	MR	R	MS	MR	MR	Strong Excluder
Progeny 4821RX	MR	S	MS	MR	MR	Strong Excluder
Progeny 4851RX	MR	R	MR	MR	MR	Moderate Includer
Progeny 4902E3	MR	R	MS	R	MR	Moderate Excluder
Progeny 4908E3S	MR	R	MR	MR	MR	Strong Includer
Progeny 4970RX	MR	R	MR	MR	MR	Strong Includer
Progeny 5016RXS	MR	R	MR	MR	R	Mixed
Progeny 5170RX	MR	R	MR	MR	R	Moderate Includer
Progeny 5211E3	MR	R	MS	MR	R	Moderate Includer
Progeny 5252RX	MR	R	MR	MR	R	Strong Includer
Progeny 5554RX	MR	S	MS	R	R	Strong Excluder
R13-13997	MR	R	MR	MR	MR	Strong Excluder
R13-14635RR	MR	R	MR	MR	MR	Mixed
R13-14635RR:0009	MR	R	MR	MR	R	Mixed
R13-14635RR:0010	MR	R	MR	MR	R	Mixed
R13-14635RR:0013	MR	R	MR	MR	MR	Strong Includer
R14-1422	MR	R	MS	R	MR	Moderate Excluder
R15-1587	MR	R	MR	R	MR	Strong Excluder
R15-2422	MR	R	MR	MR	R	Strong Includer
R16-1445	MR	R	MR	MR	MR	Moderate Excluder
R16-247	MR	R	MR	MR	R	Mixed

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Table 8. Nematode, Disease, and Chloride Sensitivity Ratings for Soybean Varieties in 2020 Arkansas Soybean Variety Performance Test^{5, 6}.

Variety/Experimental Line	RKN GH Gall Rating	Stem Canker ⁷	Cercospora Leaf Blight	Frogeye Leaf Spot	Target Leaf Spot	Chloride Reaction ⁸
R16-253	MR	R	MR	R	R	Moderate Includer
R16-259	MR	R	MR	R	R	Mixed
R17-2000	MR	R	MS	MR	MR	Moderate Excluder
R17-2069	MR	R	MR	MR	R	Strong Includer
R17-7443RR	MR	R	MS	R	MR	Mixed
R17C-1056	MR	R	MS	MR	R	Mixed
R17C-1182	MR	R	MR	R	R	Mixed
R17C-1266	MR	R	MR	R	R	Mixed
R17C-1308	MR	R	MS	R	MR	Mixed
S16-11651C	MR	R	MS	R	R	Strong Excluder
S16-3747RY	MR	R	MR	R	R	Moderate Excluder
S16-5504R	MR	R	MR	R	MR	Strong Excluder
Taylor T4880XS	MR	R	MR	R	R	Strong Excluder
Taylor T4990XS	MR	R	MR	MR	MR	Mixed
USG 7447XTS	MR	S	MR	R	MR	Mixed
USG 7461XT	MR	R	MR	R	MR	Mixed
USG 7471ETS	MR	R	MR	MR	R	Strong Includer
USG 7480XT	MR	R	MS	R	R	Moderate Includer
USG 7489XT	MR	R	MR	MR	MR	Strong Excluder
USG 7491ETS	MR	R	MR	R	MR	Strong Includer
USG 7496XTS	MR	S	MR	R	MR	Moderate Includer

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Table 9. Agronomic Characteristics for Soybean Varieties/Experimental Lines in 2020 Arkansas Soybean Variety Performance Test.

Variety/Experimental Line	Relative Maturity	Herb. Tech.	STS/BOLT	Metribuzin Sensitivity	Flower Color	Pubescence Color	Pod Color	Hilum Color	Growth ¹⁰ Habit	Days to ¹¹ Maturity	Lodging ¹² Score	Plant ¹³ Height
AgriGold G4620RX	4.6	RR2X	•	Slight	Purple	Gray	•	Black	Ind	130	1	40
AgriGold G4820RX	4.8	RR2X	•	Slight	Purple	Lt. Tawny	•	Black	Ind	130	1	36
AgriGold G4995RX	4.9	RR2X	•	Slight	Purple	Lt. Tawny	•	Black	Ind	131	2	38
Armor 44-D49	4.4	RR2X	Yes	Slight	Purple	Lt. Tawny	Brown	Black	Ind	129	2	38
Armor 44-D92	4.4	RR2X	Yes	Slight	Purple	Lt. Tawny	Brown	Black	Ind	129	1	35
Armor 44-E44	4.4	E3	No	Slight	White	Lt. Tawny	Tan	Brown	Ind	129	1	30
Armor 46-D09	4.6	RR2X	Yes	Moderate	Purple	Tawny	Brown	Black	Ind	130	2	39
Armor 46-E50	4.6	E3	Yes	Slight	White	Tawny	Tan	Brown	Ind	128	1	35
Armor 47-E02	4.7	E3	Yes	Moderate	Purple	Gray	Brown	Imp Black	Ind	129	1	39
Armor 48-D25	4.8	RR2X	Yes	Moderate	Purple	Lt. Tawny	Tan	Black	Ind	130	1	37
Armor 48-E81	4.8	E3	Yes	Slight	White	Gray	Brown	Buff	Ind	134	1	32
Armor 49-D14	4.9	RR2X	No	Slight	Purple	Lt. Tawny	Brown	Black	Ind	133	2	35
Armor 51-E53	5.1	E3	Yes	Slight	White	Gray	Brown	Buff	Ind	132	2	41
Asgrow AG 43X0	4.3	RR2X	Yes	Moderate	Purple	Gray	•	Imp Black	Ind	128	1	36
Asgrow AG 45X8	4.5	RR2X	Yes	Slight	Purple	Lt. Tawny	•	Black	Ind	130	2	38
Asgrow AG 46X0	4.6	RR2X	No	Moderate	Purple	Lt. Tawny	•	Black	Ind	129	1	37
Asgrow AG 46X6	4.6	RR2X	Yes	Moderate	Purple	Tawny	•	Black	Ind	133	1	35
Asgrow AG 48X9	4.8	RR2X	Yes	Slight	Purple	Lt. Tawny	•	Black	Ind	130	1	38
Asgrow AG 49X0	4.9	RR2X	Yes	Slight	Purple	Lt. Tawny	•	Black	Ind	133	2	38
Asgrow AG 52X9	5.2	RR2X	Yes	Moderate	Purple	Lt. Tawny	•	Black	Ind	134	1	38
Asgrow AG 53X0	5.3	RR2X	No	Moderate	Purple	Lt. Tawny	•	Black	Ind	134	1	40
Asgrow AG 53X9	5.3	RR2X	No	Slight	Purple	Gray	•	Imp Black	Ind	135	1	36
Credenz CZ 3930GTL	3.9	LLGT27	•	Slight	Purple	Lt. Tawny	Tan	Black	Ind	127	2	31
Credenz CZ 4280X	4.2	RR2X	•	Moderate	•	•	•	•	Ind	124	2	33
Credenz CZ 4341X	4.3	RR2X	Yes	Moderate	White	Lt. Tawny	Brown	Brown	Ind	126	2	34
Credenz CZ 4410GTL	4.4	LLGT27	No	Slight	Purple	Lt. Tawny	Brown	Black	Ind	127	2	35
Credenz CZ 4570X	4.5	RR2X	No	Moderate	Purple	Lt. Tawny	Tan	Black	Ind	129	2	35
Credenz CZ 4600X	4.6	RR2X	No	Moderate	Purple	Tawny	Tan	Black	Ind	129	1	35
Credenz CZ 4730X	4.7	RR2X	Yes	Slight	Purple	Lt. Tawny	Brown	Black	Ind	129	1	37
Credenz CZ 4770X	4.7	RR2X	No	Moderate	Purple	Lt. Tawny	Tan	Black	Ind	132	1	35
Credenz CZ 4810X	4.8	RR2X	No	Moderate	Purple	Gray	Brown	Imp Black	Ind	129	1	36
Credenz CZ 4869X	4.8	RR2X	No	Moderate	White	Lt. Tawny	Tan	Black	Ind	130	1	36
Credenz CZ 4941X	4.9	RR2X	No	Severe	Purple	Lt. Tawny	Brown	Black	Ind	133	2	39
Credenz CZ 4979X	4.9	RR2X	No	Severe	Purple	Gray	Brown	Imp Black	Ind	132	2	39
Credenz CZ 5000X	5.0	RR2X	No	Slight	Purple	Lt. Tawny	Tan	Black	Ind	132	2	36
Credenz CZ 5251X	5.3	RR2X	No	Slight	Purple	Gray	Tan	Black	Ind	133	1	34
Credenz CZ 5299X	5.2	RR2X	Yes	Slight	White	Gray	Tan	Buff	Ind	134	2	39
Credenz CZ 5700X	5.7	RR2X	No	Severe	White	Tawny	Tan	Black	Det	140	1	35
Credenz CZ 6020X	6.0	RR2X	No	Slight	Purple	Tawny	Tan	Black	Det	140	1	35
Delta Grow DG45E10	4.5	E3	•	Moderate	Purple	Gray	Tan	Imp Black	Ind	130	1	32
Delta Grow DG45E28XP	4.5	E3	•	Moderate	•	•	•	•	•	128	2	34
Delta Grow DG46X05/STS	4.6	RR2X	Yes	Moderate	Purple	Lt. Tawny	•	Black	Ind	130	2	36
Delta Grow DG46X65/STS	4.6	RR2X	Yes	Severe	Purple	Lt. Tawny	•	Black	Ind	128	1	32
Delta Grow DG47E20/STS	4.7	E3	Yes	Moderate	Purple	Gray	•	Brown	Ind	127	1	39
Delta Grow DG47E80/STS	4.7	E3	Yes	Moderate	Purple	Gray	•	Brown	Ind	129	2	31
Delta Grow DG47X95/STS	4.7	RR2X	Yes	Moderate	Purple	Lt. Tawny	•	Black	Ind	133	2	37
Delta Grow DG4880	4.8	RR2	•	Slight	•	•	•	•	•	131	2	35
Delta Grow DG48E10	4.8	E3	No	Slight	•	•	•	•	•	132	1	37
Delta Grow DG48E49/STS	4.8	E3	Yes	Moderate	White	Tawny	•	Brown	Ind	129	1	30
Delta Grow DG48X05	4.8	RR2X	No	Slight	Purple	Lt. Tawny	•	Black	Ind	132	2	37

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Table 9. Agronomic Characteristics for Soybean Varieties/Experimental Lines in 2020 Arkansas Soybean Variety Performance Test.

Variety/Experimental Line	Relative Maturity	Herb. Tech.	STS/ BOLT	Metribuzin Sensitivity	Flower Color	Pubescence Color	Pod Color	Hilum Color	Growth ¹⁰ Habit	Days to ¹¹ Maturity	Lodging ¹² Score	Plant ¹³ Height
Delta Grow DG48X45	4.8	RR2X	No	Moderate	Purple	Lt. Tawny	•	Black	Ind	133	1	35
Delta Grow DG49E00/STS	4.7	E3	•	Moderate	•	•	•	•	•	132	2	33
Delta Grow DG49X15	4.9	RR2X	•	Moderate	•	•	•	•	•	132	2	39
Delta Grow DG49X25	4.9	RR2X	No	Slight	•	•	•	•	Ind	132	2	40
Delta Grow DG50E10XP	5.0	E3	•	Slight	•	•	•	•	•	129	2	38
Delta Grow DG51E60	5.1	E3	No	Moderate	White	Gray	•	Buff	Ind	133	2	34
Delta Grow DG52E15/STS	5.2	E3	Yes	Severe	White	Gray	•	Buff	Ind	133	1	42
Delta Grow DG52E22	5.2	E3	No	Slight	White	Gray	•	Imp Black	Ind	133	2	36
Delta Grow DG52X05/STS	5.2	RR2X	Yes	Moderate	•	•	•	•	Ind	134	2	38
Delta Grow DG54X25	5.4	RR2X	No	Slight	White	Gray	•	Buff	Det	135	1	33
Donmario Seeds 44X31	4.2	RR2X	•	Severe	•	•	•	•	•	129	2	37
Donmario Seeds 45X61	4.5	RR2X	No	Moderate	Purple	Lt. Tawny	Brown	Black	Ind	130	2	41
Donmario Seeds 47X39	4.7	RR2X	No	Moderate	Purple	Lt. Tawny	Tan	Black	Ind	133	2	36
Donmario Seeds 49X13	4.9	RR2X	No	Moderate	Purple	Lt. Tawny	Tan	Black	Ind	133	2	37
Donmario Seeds 51X61	5.1	RR2X	No	Slight	Purple	Lt. Tawny	Tan	Black	Ind	134	1	36
Dyna-Gro S43EN61	4.3	E3	No	Slight	White	Lt. Tawny	Brown	Brown	Ind	127	2	33
Dyna-Gro S43XS70	4.3	RR2X	Yes	Slight	Purple	Lt. Tawny	Brown	Black	Ind	128	1	38
Dyna-Gro S45ES10	4.5	E3	No	Moderate	White	Tawny	Brown	Brown	Ind	129	1	36
Dyna-Gro S46ES91	4.6	E3	No	Moderate	Purple	Gray	Brown	Imp Black	Ind	128	1	37
Dyna-Gro S46XS60	4.6	RR2X	Yes	Moderate	Purple	Lt. Tawny	Tan	Black	Ind	130	1	36
Dyna-Gro S47XT20	4.7	RR2X	No	Slight	Purple	Lt. Tawny	Brown	Black	Ind	129	1	38
Dyna-Gro S48XT40	4.8	RR2X	No	Moderate	Purple	Gray	Brown	Imp Black	Ind	128	1	37
Dyna-Gro S48XT90	4.8	RR2X	No	Slight	Purple	Lt. Tawny	Tan	Black	Ind	132	2	36
Dyna-Gro S49EN79	4.9	E3	No	Slight	White	Gray	Brown	Imp Black	Ind	133	2	35
Dyna-Gro S49XT70	4.9	RR2X	No	Moderate	White	Lt. Tawny	Brown	Black	Ind	131	1	40
Dyna-Gro S52XS39	5.2	RR2X	Yes	Severe	White	Gray	Tan	Buff	Ind	133	2	38
Eagle Seed E54640RYX	4.6	RR2X	No	Slight	•	•	•	•	Ind	130	1	39
Eagle Seed E54772R2Y	4.7	RR2	No	Slight	White	Tawny	Tan	Black	Ind	130	1	38
Eagle Seed E54880RYX	4.8	RR2X	No	Slight	•	•	•	•	Ind	130	1	38
Go Soy 463E20S	4.6	E3	Yes	Moderate	•	•	•	•	Ind	127	1	39
Go Soy 481E19	4.8	E3	No	Slight	•	•	•	•	Ind	133	1	37
Go Soy 491E19S	4.9	E3	Yes	Slight	•	•	Brown	•	Ind	132	1	43
Go Soy 512E21	5.1	E3	No	Slight	•	•	Brown	•	Ind	132	2	37
GT Ireane	4.9	RR1	•	Slight	•	•	•	•	Det	132	1	30
Integra 54606NS	4.6	RR2X	Yes	Slight	Purple	Lt. Tawny	Brown	Black	Ind	131	2	39
Integra 54660NS	4.6	RR2X	Yes	Slight	Purple	Lt. Tawny	Tan	Black	Ind	129	2	35
Integra 54816N	4.8	RR2X	No	Slight	Purple	Lt. Tawny	Tan	Black	Ind	133	1	35
Integra 54891NS	4.8	RR2X	Yes	Slight	Purple	Lt. Tawny	Tan	Black	Ind	130	1	39
Integra 54920NS	4.9	RR2X	Yes	Slight	White	Lt. Tawny	Tan	Black	Ind	131	2	38
LGS4464RX	4.4	RR2X	Yes	Slight	White	Lt. Tawny	Brown	Black	Ind	124	1	35
LGS4632RX	4.6	RR2X	Yes	Moderate	Purple	Lt. Tawny	Brown	Black	Ind	128	1	38
LGS4899RX	4.8	RR2X	Yes	Slight	Purple	Lt. Tawny	Tan	Black	Ind	129	1	37
Local LS3906GL	3.9	LLGT27	•	Slight	•	•	•	•	Ind	125	2	33
Local LS3976X	3.9	RR2X	No	Slight	Purple	Lt. Tawny	Tan	•	Ind	121	2	32
Local LS4299XS	4.2	RR2X	Yes	Slight	Purple	Lt. Tawny	Brown	•	Ind	128	2	38
Local LS4407X	4.4	RR2X	•	Moderate	•	•	•	•	Ind	129	1	34
Local LS4565XS	4.5	RR2X	Yes	Moderate	White	Tawny	Brown	•	Ind	129	2	40
Local LS4607XS	4.6	RR2X	Yes	Moderate	•	•	•	•	Ind	131	2	39
Local LS4706GL	4.7	LLGT27	•	Slight	•	•	•	•	Ind	128	1	32
Local LS4795XS	4.7	RR2X	Yes	Slight	Purple	Lt. Tawny	Tan	•	Ind	128	1	37

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Table 9. Agronomic Characteristics for Soybean Varieties/Experimental Lines in 2020 Arkansas Soybean Variety Performance Test.

Variety/Experimental Line	Relative Maturity	Herb. Tech.	STS/BOLT	Metribuzin Sensitivity	Flower Color	Pubescence Color	Pod Color	Hilum Color	Growth ¹⁰ Habit	Days to ¹¹ Maturity	Lodging ¹² Score	Plant ¹³ Height
Local LS4806XS	4.8	RR2X	Yes	Slight	•	•	•	•	Ind	130	1	36
Local LS4999X	4.9	RR2X	No	Moderate	White	Lt. Tawny	Brown	•	Ind	129	1	37
Local LS5009XS	5.0	RR2X	Yes	Slight	•	•	•	•	Ind	135	2	39
Local LS5087X	5.0	RR2X	No	Slight	Purple	Lt. Tawny	Tan	•	Ind	132	1	38
Local LS5386X	5.3	RR2X	No	Severe	Purple	Lt. Tawny	Tan	•	Ind	134	1	38
Local ZS4694E3S	4.6	E3	Yes	Slight	White	Tawny	Tan	•	Ind	128	1	35
Local ZS5098E3	5.0	E3	No	Slight	White	Gray	Brown	•	Ind	133	1	41
Mission A4448X	4.4	RR2X	Yes	Slight	Purple	Lt. Tawny	Brown	Black	Ind	125	1	35
Mission A4618X	4.6	RR2X	Yes	Moderate	Purple	Gray	Brown	Imp Black	Ind	130	1	40
Mission A4828X R	4.8	RR2X	Yes	Slight	Purple	Lt. Tawny	Brown	Black	Ind	133	3	43
Mission A4950X	4.9	RR2X	No	Slight	Purple	Lt. Tawny	Tan	Black	Ind	133	2	39
Petrus Seed 4619 GTS	4.9	RR1	Yes	Slight	White	Tawny	Tan	Black	Ind	129	1	33
Petrus Seed 4916 GT	4.9	RR1	No	Slight	Purple	Tawny	Tan	Black	Semi Det	131	3	37
Petrus Seed 5319 GT	5.3	RR1	No	Slight	White	Tawny	Tan	Black	Ind	136	1	31
Pioneer P46A86X	4.6	RR2X	No	Slight	White	Gray	Brown	Buff	Ind	130	2	38
Pioneer P47A76L	4.7	LL	No	Slight	Purple	Tawny	Brown	Black	Ind	126	1	35
Pioneer P48A60X	4.8	RR2X	No	Slight	Purple	Lt. Tawny	Brown	Black	Ind	131	1	36
Pioneer P49A41L	4.9	LL	No	Slight	Purple	Gray	Brown	Imp Black	Ind	129	2	39
Pioneer P49T62E	4.9	E3	No	Slight	Purple	Gray	Brown	Imp Black	Ind	132	1	33
Progeny 4241E3	4.2	E3	No	Moderate	White	Gray	•	Buff	Ind	124	2	31
Progeny 4265RXS	4.2	RR2X	Yes	Slight	Purple	Lt. Tawny	Brown	Black	Ind	129	1	37
Progeny 4444RXS	4.6	RR2X	Yes	Slight	Purple	Lt. Tawny	Brown	Black	Ind	125	1	36
Progeny 4505RXS	4.5	RR2X	Yes	Slight	Purple	Lt. Tawny	Brown	Black	Ind	130	2	38
Progeny 4602LR	4.6	LLGT27	No	Moderate	Purple	Lt. Tawny	•	Brown	Ind	127	1	34
Progeny 4620RXS	4.6	RR2X	Yes	Moderate	White	Tawny	Brown	Black	Ind	129	2	39
Progeny 4682E3	4.6	E3	No	Moderate	Purple	Gray	•	Imp Black	Ind	131	1	35
Progeny 4700RXS	4.7	RR2X	Yes	Slight	Purple	Lt. Tawny	Brown	Black	Ind	130	1	38
Progeny 4775E3S	4.7	E3	Yes	Moderate	Purple	Gray	Brown	Imp Black	Ind	127	1	38
Progeny 4807E3S	4.8	E3	Yes	Slight	Purple	Gray	Brown	Imp Black	Ind	129	2	34
Progeny 4816RXS	4.8	RR2X	No	Moderate	Purple	Lt. Tawny	Tan	Black	Ind	133	1	37
Progeny 4821RX	4.8	RR2X	No	Moderate	Purple	Tawny	Brown	Black	Ind	132	2	37
Progeny 4851RX	4.8	RR2X	No	Moderate	Purple	Lt. Tawny	Brown	Black	Ind	131	3	39
Progeny 4902E3	4.9	E3	No	Slight	White	Gray	Brown	Buff	Ind	133	2	36
Progeny 4908E3S	4.9	E3	Yes	Slight	White	Gray	•	Buff	Ind	132	1	41
Progeny 4970RX	4.9	RR2X	No	Slight	Purple	Lt. Tawny	Tan	Black	Ind	135	1	37
Progeny 5016RXS	5.0	RR2X	Yes	Slight	Purple	Lt. Tawny	Brown	Black	Ind	133	1	39
Progeny 5170RX	5.1	RR2X	No	Severe	Purple	Lt. Tawny	•	Black	Ind	133	1	40
Progeny 5211E3	5.2	E3	No	Moderate	White	Gray	Brown	Buff	Ind	133	2	34
Progeny 5252RX	5.2	RR2X	No	Moderate	White	Gray	Tan	Buff	Ind	135	2	38
Progeny 5554RX	5.5	RR2X	No	Slight	White	Tawny	Tan	Black	Det	134	1	34
R13-13997	5.5	Conv	•	Slight	White	Tawny	•	Black	Det	134	3	33
R13-14635RR	5.4	RR1	•	Moderate	White	Gray	•	Buff	Ind	133	1	40
R13-14635RR:0009	4.8	RR1	•	Moderate	White	Gray	•	•	Ind	132	1	39
R13-14635RR:0010	4.8	RR1	•	Slight	White	Gray	•	•	Ind	134	1	38
R13-14635RR:0013	4.8	RR1	•	Slight	Purple	Gray	•	Buff	Ind	131	1	38
R14-1422	5.4	Conv	•	Slight	White	Gray	•	Brown	Det	135	2	33
R15-1587	5.1	Conv	•	Slight	Purple	Tawny	•	•	Det	135	2	30
R15-2422	4.7	Conv	•	Moderate	Purple	Gray	•	•	Ind	127	2	38
R16-1445	5.4	Conv	•	Moderate	•	Gray	•	•		134	3	33
R16-247	4.9	Conv	•	Slight	Purple	Tawny	•	•	Det	131	1	34

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Variety/Experimental Line	Relative Maturity	Herb. Tech.	STS/BOLT	Metribuzin Sensitivity	Flower Color	Pubescence Color	Pod Color	Hilum Color	Growth ¹⁰ Habit	Days to ¹¹ Maturity	Lodging ¹² Score	Plant ¹³ Height
R16-253	4.6	Conv	•	Moderate	White	Tawny	•	•	Ind	130	1	33
R16-259	4.6	Conv	•	Slight	Purple	Tawny	•	•	Ind	130	1	34
R17-2000	4.7	Conv	•	Slight	Purple	Gray	•	•	Ind	127	2	41
R17-2069	4.8	Conv	•	Slight	Purple	Gray	•	•	Ind	129	2	37
R17-7443RR	5.2	RR1	•	Moderate	•	Lt. Tawny	•	•	Ind	135	1	36
R17C-1056	4.7	Conv	•	Moderate	White	Gray	•	•	Det	132	2	38
R17C-1182	4.7	Conv	•	Slight	White	Gray	•	•	Ind	129	2	35
R17C-1266	4.9	Conv	•	Slight	White	Gray	•	•	Ind	130	2	39
R17C-1308	4.7	Conv	•	Moderate	White	Gray	•	•	Ind	131	2	36
S16-11651C	5.3	Conv	•	Slight	White	Tawny	•	Black	Semi	137	3	33
S16-3747RY	5.0	RR2	•	Slight	White	Lt. Tawny	•	Black	Det	135	2	36
S16-5504R	4.6	RR1	•	Slight	White	Tawny	•	Brown	Semi	133	2	32
Taylor T4880XS	4.8	RR2X	•	Slight	•	•	•	•	Ind	134	1	35
Taylor T4990XS	4.9	RR2X	•	Slight	•	•	•	•	Ind	133	1	38
USG 7447XTS	4.4	RR2X	Yes	Moderate	White	Lt. Tawny	Brown	Black	Ind	131	2	36
USG 7461XT	4.6	RR2X	No	Slight	Purple	Lt. Tawny		Black	Ind	130	2	38
USG 7471ETS	4.7	E3	Yes	Slight	Purple	Gray	Brown	Imp. Black	Ind	128	1	32
USG 7480XT	4.8	RR2X	No	Slight	Purple	Lt. Tawny	Tan	Black	Ind	131	1	37
USG 7489XT	4.8	RR2X	No	Moderate	Purple	Lt. Tawny	Tan	Black	Ind	132	1	35
USG 7491ETS	4.9	E3	Yes	Slight	White	Gray	Brown	Buff	Ind	131	2	32
USG 7496XTS	4.9	RR2X	Yes	Slight	Purple	Lt. Tawny	Brown	Black	Ind	131	2	41

Key Codes for All Tables

“ • ” Information Not Available

¹Keiser Irrig = Northeast Research and Extension Center, Keiser, AR Irrigated Test
Keiser LP Irrig = Northeast Research and Extension Center, Keiser, AR Late-Planted Irrigated Test
Marianna Irrig = Lon Mann Cotton Research Station, Marianna, AR Irrigated Test
Pine Tree Irrig = Pine Tree Research Station, Colt, AR Irrigated Test
Rohwer Irrig = Rohwer Research Station, Rohwer AR Irrigated Test
Rohwer LP Irrig = Rohwer Research Station, Rohwer AR Late-Planted Irrigated Test
Stuttgart Irrig = Rice Research and Extension Center, Stuttgart, AR Irrigated Test
Stuttgart Non-irrig = Rice Research and Extension Center, Stuttgart, AR Non-irrigated Test

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

³Average Yield from 2019 and 2020.

⁴Average Yield from 2018, 2019, and 2020.

⁵By using the greatest level of disease reported over the years tested, a standardized designation system for all disease and nematode screenings is as follows: **HR = Highly Resistant, R = Resistant, MR = Moderately Resistant, MS = Moderately Susceptible, S = Susceptible, VS = Very Susceptible**

⁶Evaluation 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 and the field trials were conducted in a soybean production field, Kerr, AR. Greenhouse root gall ratings were a visual assessment of the of the entire root system using a 0-10 scale (<1.0 = R; 1.0-2.0 = MR; 3.0-5.0 = MS; 6.0-50.0 = S; >50.0 = VS). Field root gall ratings were a visual assessment of the percentage root system galled using on a 0-100 scale (0-1.0 = HR, 1.1-4.0 = R, 4.1-9.0 = MR, 9.1-20.0 = MS, 20.1-40.0 = S, 40.1-100 = VS) at R5 to R5+ growth stage.

⁷Stem Canker Reaction-10 plants per plot were inoculated with infested toothpicks, replicated 3 times.

⁸Chloride 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.

⁹Soybean growth habit; Ind = Indeterminate; Det = Determinate; Std = Semi-determinate.

¹⁰Days to Maturity represent the average number of days (Keiser Irrigated, Pine Tree Irrigated, and Rohwer Irrigated Tests) from planting until 80% of the soybeans in the plot were thought to be mature.

¹¹Days to Maturity LP represent the average number of days (Keiser Irrigated Late-Planted and Rohwer Irrigated Late-Planted Tests) from planting until 80% of the soybeans in the plot were thought to be mature.

¹²Soybean lodging is an average of data from the Keiser Irrigated, Pine Tree Irrigated, and Rohwer Irrigated Tests 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.

¹³Soybean plant height reported in inches and is an average of data from the Keiser Irrigated, Pine Tree Irrigated, and Rohwer Irrigated Tests.