

Arkansas

Soybean Performance

Tests 2019



J.F. Carlin • R.D. Bond • J.A. Still

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Fayetteville, Arkansas 72704**

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Report Statement

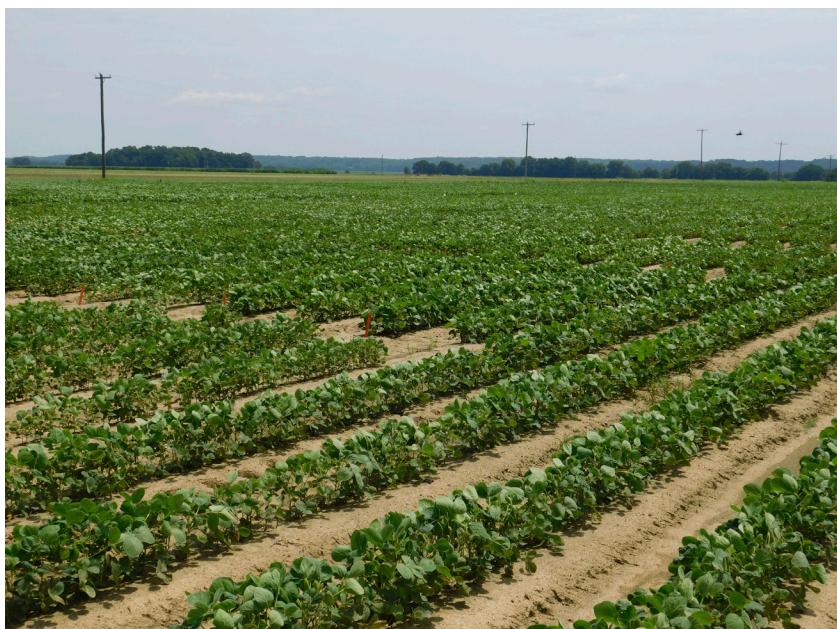
This Arkansas Agricultural Experiment Station (AAES) publication summarizes variety trial research conducted by the Arkansas Crop Variety Improvement Program. Variety trial information presented here furthers the AAES mission of conducting research that benefits the citizens of Arkansas by expanding agricultural profitability and strengthening local and state economies. This information is not a recommendation or an endorsement of any product by the University of Arkansas System Division of Agriculture or AAES.

Recommendations interpreted from this information are made and presented by the Arkansas Cooperative Extension Service.



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Arkansas Soybean Performance Tests¹

2019

J.F. Carlin,² R.D. Bond,³ and J.A. Still⁴

Introduction

Soybean variety and strain performance tests are conducted each year in Arkansas by the University of Arkansas System Division of Agriculture's Arkansas Crop Variety Improvement Program. The tests provide information to companies developing varieties and/or marketing seed within the State, and aid the Arkansas Cooperative Extension Service in formulating variety recommendations for soybean producers.

Methods

The 2019 Arkansas Performance Tests contained 191 soybean varieties and strains, and were conducted at the Northeast Research and Extension Center (NEREC) at Keiser, the Lon Mann Cotton Research Station (LMCRS) near Marianna, the Pine Tree Research Station (PTRS) near Colt, the Rohwer Research Station (RRS) near Rohwer, and the Rice Research and Extension Center (RREC) near Stuttgart. A test location map can be found inside the back cover. Entries containing any herbicide technology trait(s) were eligible to enter. To facilitate field operations and to allow for fairer comparisons between varieties and strains, entries were divided into three relative maturity (RM) ranges based on information provided by the originating company or institution; they are RM 3.5–4.4, RM 4.5–4.9, and RM 5.0–5.9. Soybean varieties with Xtend technology were tested separately from varieties with all other herbicide technologies.

Within each test, entries were arranged as a randomized complete block design with three replications. Plots in all tests were 2 or 4 rows wide depending on location and 20–21 feet in length. Seeds were packaged for recommended planting rates and were planted with a cone planter. Specific location and cultural practice information accompany each table.

All rows of each 2-row plot and the two interior rows of each 4-row plot were harvested for yield determination. Percent moisture was recorded for all harvested seed and plot weights were adjusted to 13% moisture. Plot weights of all tests were converted to yield in bushels per acre (bu./ac).

Plots were visually rated for lodging and shattering according to the following scales:

Lodging (degrees from verticle)	Shattering (% of all pods)
1. <10	1. <10
2. 11–20	2. 11–20
3. 21–30	3. 21–30
4. 31–40	4. 31–40
5. 41–50	5. 41–50
6. 51–60	6. 51–60
7. 61–70	7. 61–70
8. 71–80	8. 71–80
9. 81–90	9. 81–90

Average plant height was recorded in inches for each plot in the first replication of each test. Maturity dates were also recorded for each plot in the first replication of each test when 95% of pods had reached mature color and most leaves had dropped (R8).

An additional test was conducted at RREC to evaluate the performance of select soybean varieties after being subjected to waterlogged soil conditions for three days at the V2 growth stage. The test was designed as a split-plot with three replications. The whole plot factor being waterlogging treatment (waterlogged vs. non-waterlogged) and subplot factor being genotype. Waterlogging was achieved by surrounding each block with a soil levee and holding water at a 1-inch depth above the soil surface for three consecutive days, after which, the levees were removed and the water was allowed to drain. Plot yield and plant height data were analyzed at P -value = 0.1 and can be found in Table 13 of this publication.

Variety Testing Website

This report and other information about variety testing for corn, cotton, grain sorghum, rice, wheat, and soybean can be found at
<https://aaes.uark.edu/variety-testing>

Disease ratings that do not appear in this or other reports may also be found on this website.

¹Use of products and trade names in this report does not constitute a guarantee or warranty of the products named and does not signify that those products are approved to the exclusion of comparable products.

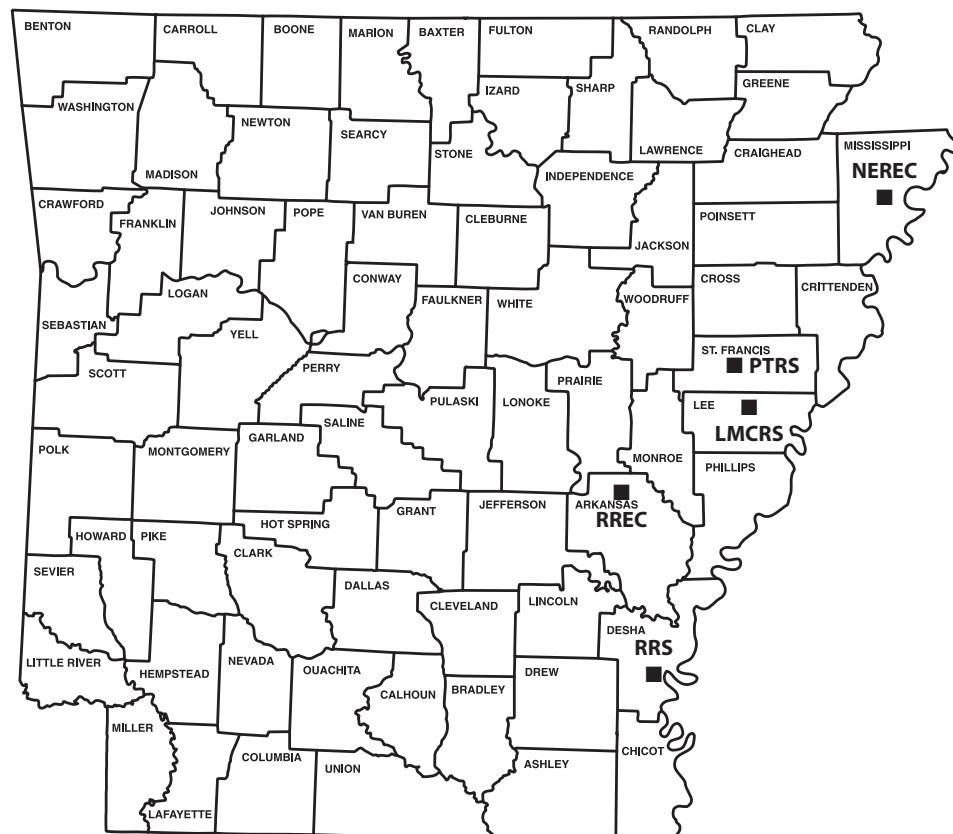
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Table 1. Summary of Arkansas Soybean Performance Testing Locations, 2019.

Location	Planting Target	Irrigation	Row Spacing (in.)	Soil Type	Planting Date	Harvest Dates					
						Non-Xtend		Xtend		Xtend	
						Late 3–Early 4	Late 4	MG 5	Late 3–Early 4	Late 4	MG 5
NEREC, Keiser, Ark.	Earliest Opportunity	Irrigated	38 (single)	Sharkey clay	5/17	10/04	10/04	10/20	10/04	10/04	10/20
NEREC, Keiser, Ark.	Late-Planted	Irrigated	38 (single)	Sharkey clay	6/03	10/10	10/10	11/19	10/05	10/05	11/19
LMCRS, Marianna, Ark.	Earliest Opportunity	Irrigated	38 (single)	Calloway silt loam	5/16	10/03	10/03	10/05	10/03	10/03	10/05
PTRS, Colt, Ark.	Earliest Opportunity	Irrigated	30 (single)	Calloway silt loam	5/17	10/05	10/10	10/10	10/05	10/09	10/10
RRS, Rohwer, Ark.	Earliest Opportunity	Irrigated	38 (twin-row)	Herbert silt loam	5/15	9/30	9/30	10/04	9/24	9/24	10/04
RRS, Rohwer, Ark.	Late-Planted	Irrigated	38 (twin-row)	Herbert silt loam	5/29	9/30	9/30	10/04	10/01	10/01	10/04
RREC, Stuttgart, Ark.	Earliest Opportunity	Irrigated	30 (single)	Crowley silt loam	5/31	10/10	10/20	10/20	10/10	10/19	10/19
RREC, Stuttgart, Ark.	Earliest Opportunity	Non-Irrigated	30 (single)	Crowley silt loam	6/13	10/18	10/18	10/18	10/17	10/17	10/17



Test Locations 2019

- LMCRS - Lon Mann Cotton Research Station, Marianna, Arkansas
- NEREC - Northeast Research and Extension Center, Keiser, Arkansas
- PTRS - Pine Tree Research Station, Colt, Arkansas
- RREC - Rice Research and Extension Center, Stuttgart, Arkansas
- RRS - Rohwer Research Station, Rohwer, Arkansas

Table 2. Yields of Late Maturity Group III and Early Maturity Group IV (RM 3.5–4.4) Soybean Varieties and Strains in Arkansas Performance Tests, 2019.^a

Variety/Experimental Line	Herbicide Technology	Relative Maturity	Keiser	Late-Planted	Marianna	Pine Tree	Rohwer	Rohwer ^b	Stuttgart	Stuttgart Non-Irrigated	All-Location Average
Non-Xtend Cultivars											
Credenz CZ 3841LL	LL	3.8	70.2	73.8	57.0	47.1	65.4	57.6	51.5	38.9	57.7
Credenz CZ 3929GTLL	GT/LL	3.9	70.8	74.2	64.6	52.1	77.6	66.1	54.6	40.1	62.5
Credenz CZ 4222LL	LL	4.2	73.9	73.2	66.2	54.9	76.8	63.6	52.2	36.2	62.1
Delta Grow 45E23	E3	4.4	76.0	77.4	61.4	57.8	76.6	55.1	54.3	36.8	61.9
Dyna-Gro S42EN89	Enlist	4.2	79.1	78.9	68.2	54.2	78.4	52.4	57.8	38.2	63.4
Go Soy 44GL18	LL/GT27	4.4	76.9	71.0	67.3	53.2	80.1	55.5	48.3	32.4	60.6
Progeny P4241 E3	E3	4.2	77.2	76.2	67.6	59.3	80.8	50.9	56.4	36.2	63.1
Progeny P4291 LR	LL/GT27	4.2	76.2	75.7	65.5	57.0	66.8	55.8	56.8	39.5	61.7
S13-2743C	Conv.	4.1	74.2	76.3	69.0	50.7	74.0	59.8	50.0	34.5	61.1
S13-3851C	Conv.	4.4	74.7	79.7	66.3	53.5	73.1	53.7	53.8	34.0	61.1
GRAND MEAN			74.9	75.7	65.3	54.0	74.9	57.0	53.6	36.7	61.5
LSD (5%)				4.8	4.1	3.6	4.7	9.7	6.6	3.6	7.2
C.V.				4.5	3.7	3.9	6.2	9.1	8.2	4.7	13.9
Xtend Cultivars											
AgriGold G4440RX	Xtend	4.4	84.8	69.2	67.0	48.2	71.1	•	64.2	45.2	64.2
Armor 42-D27	Xtend	4.2	76.2	76.2	63.3	60.2	64.2	•	55.7	39.8	62.2
Armor 44-D92	Xtend	4.4	89.0	73.5	67.6	50.2	64.8	•	56.6	42.6	63.5
Asgrow AG 42X9	Xtend	4.2	82.2	67.1	60.4	50.8	60.9	•	56.2	39.8	59.6
Asgrow AG 43X0	Xtend	4.3	89.3	69.5	65.6	52.5	73.2	•	59.3	43.7	64.7
Credenz CZ 4280X	Xtend	4.2	84.0	68.4	62.9	53.9	54.9	•	58.2	40.8	60.5
Dyna-Gro S41XS98	Xtend/STS	4.1	90.7	70.9	65.8	57.3	68.4	•	52.7	43.8	64.2
Eagle Seed ES 4460RYX	Xtend	4.4	86.1	67.2	65.0	51.9	67.3	•	58.5	42.0	62.5
Local LS3976X	Xtend	3.9	84.1	72.4	61.4	49.4	60.1	•	53.8	41.3	60.4
Local LS4299XS	Xtend	4.2	83.8	69.2	69.8	50.4	70.7	•	56.6	46.2	63.8
Local LS4487XS	Xtend	4.4	80.9	74.0	68.0	50.9	65.4	•	47.9	41.7	61.2
Mission A4448X	Xtend	4.4	78.3	70.4	66.6	55.2	69.8	•	56.7	45.4	63.2
MorSoy 4447 RXT	Xtend	4.4	85.5	77.2	64.7	55.5	73.3	•	58.1	42.9	65.3
NK S39-G2X	Xtend	3.9	80.8	66.7	63.1	50.7	63.6	•	53.1	39.7	59.7
NK S44-C7X	Xtend	4.4	90.8	80.8	71.9	53.4	74.3	•	57.4	45.0	67.7
Pioneer P42A96X	Xtend	4.2	86.3	73.2	62.7	51.7	70.3	•	47.9	35.5	61.1
Progeny P4255 RX	Xtend	4.2	84.2	74.2	68.7	55.5	66.8	•	59.8	46.0	65.0
Progeny P4265 RXS	Xtend/STS	4.2	74.2	64.2	69.4	50.3	72.5	•	57.7	43.9	61.7
Progeny P4444 RXS	Xtend/STS	4.4	87.5	81.6	69.9	57.7	70.8	•	63.8	43.7	67.9
REV 4310X	Xtend	4.3	82.2	68.4	65.8	53.9	68.1	•	53.5	46.1	62.6
GRAND MEAN			84.0	71.7	66.0	53.0	67.5	•	56.4	42.8	63.0
LSD (5%)				8.8	5.9	3.5	4.2	10.4	•	5.1	6.4
C.V.				7.6	5.9	3.8	5.8	11.2	•	6.5	10.9

^aKeiser = Northeast Research and Extension Center, Keiser, Ark.; Keiser Late-Planted = Northeast Research and Extension Center, Keiser, Ark.; Marianna = Lon Mann Cotton Research

Station, Marianna, Ark.; Pine Tree = Pine Tree Research Station, Colt, Ark.; Rohwer = Rohwer Research Station, Rohwer, Ark.; Rohwer Late-Planted = Rohwer Research Station, Rohwer, Ark.;

Stuttgart = Rice Research and Extension Center, Stuttgart, Ark.; Stuttgart Non-Irrigated = Rice Research and Extension Center, Stuttgart, Ark.

^bThe Rohwer Xtend cultivar test was discarded due to poor uniformity caused by standing water.

Table 3. Yields of Late Maturity Group IV (RM 4.5–4.9) Soybean Varieties and Strains in Arkansas Performance Tests, 2019.^a

Variety/Experimental Line	Herbicide Technology	Relative Maturity	Keiser	Late-Planted	Marianna	Pine Tree	Rohwer	Rohwer Late-Planted	Stuttgart	Stuttgart Non-Irrigated	All-Location Average
Non-Xtend Cultivars											
Credenz CZ 4539GTL	GT/LL	4.5	71.2	68.3	68.6	55.5	76.6	65.6	51.1	33.7	61.3
Credenz CZ 4540LL	LL	4.5	77.6	68.3	58.8	44.2	70.5	56.5	59.9	43.6	59.9
Credenz CZ 4649LL	LL	4.6	72.2	69.4	69.9	55.2	75.0	55.1	63.0	41.0	62.6
Credenz CZ 4820LL	LL	4.8	82.2	77.5	66.0	62.0	74.2	58.8	63.5	44.9	66.2
Credenz CZ 4918LL	LL	4.9	86.5	68.9	66.0	64.0	75.6	60.0	59.0	41.4	65.1
Credenz CZ 4938LL	LL	4.9	74.7	68.4	67.9	57.3	78.6	57.8	61.0	39.0	63.1
Delta Grow 46E29	E3/STS	4.6	77.9	66.3	64.7	60.3	69.8	53.9	58.3	39.5	61.3
Delta Grow 47E19	E3	4.7	84.7	56.0	68.7	66.7	72.0	60.4	57.5	40.9	63.4
Delta Grow 47E25	E3	4.7	74.0	70.8	65.4	61.9	73.1	58.0	57.1	41.0	62.7
Delta Grow 48E10	E3	4.8	79.8	66.2	71.4	60.4	76.2	63.3	67.8	44.7	66.2
Delta Grow 48E39	E3	4.8	80.5	69.5	63.9	61.1	75.3	60.9	64.7	41.7	64.7
Delta Grow 48E49	E3/STS	4.8	77.7	68.0	63.2	62.8	74.9	57.1	61.6	43.0	63.5
Delta Grow 4977LL/STS	LL/STS	4.9	69.5	66.6	65.2	46.8	67.1	56.5	58.0	35.3	58.1
Delta Grow 49E29	E3	4.9	74.9	69.4	67.3	54.0	69.8	58.2	58.7	40.8	61.6
DONMARIO 48E73	Enlist	4.8	78.9	65.0	61.8	55.5	70.6	60.4	58.2	36.7	60.9
Dyna-Gro S46EN29	Enlist	4.6	81.0	65.4	71.7	63.4	76.9	62.8	69.0	43.3	66.7
Dyna-Gro S49EN79	Enlist	4.9	84.0	69.4	71.4	54.1	76.3	58.3	65.5	39.9	64.9
Go Soy 46GL18	LL/GT27	4.6	81.2	66.7	67.2	53.3	75.8	62.8	53.0	32.4	61.5
Go Soy 481E19	E3	4.8	80.7	65.4	70.2	62.9	76.3	66.2	62.9	42.0	65.8
Go Soy 482E18	E3	4.8	86.9	73.4	64.3	56.2	66.9	55.6	59.6	37.7	62.6
Go Soy 48C17S	Conv.	4.8	71.6	66.7	59.3	55.8	60.8	52.3	55.8	38.6	57.6
Go Soy 49G16	RR1	4.9	74.6	69.4	71.7	64.3	61.6	63.1	60.8	44.2	63.7
Hefty H47E0	E3	4.7	77.9	73.6	67.0	61.9	76.6	51.9	59.8	38.3	63.4
Hefty H48E0	E3	4.8	80.2	74.6	65.6	67.1	72.8	63.5	62.1	40.7	65.8
Hefty H48E9	E3	4.8	87.1	74.6	67.2	56.7	62.1	57.9	59.2	41.9	63.3
Local ZS4596GLS	GT/LL	4.5	80.7	75.6	67.4	60.5	76.5	59.1	64.5	41.4	65.7
Local ZS4694E3S	Enlist	4.6	85.2	73.5	70.1	63.9	66.7	65.2	65.6	44.0	66.8
Local ZS4797E3	Enlist	4.7	91.9	75.1	69.7	59.9	74.8	66.8	66.0	41.7	68.2
Petrus Seed 4916 GT	RR1	4.9	70.0	69.1	63.3	69.9	65.6	60.8	62.4	46.8	63.5
Pioneer P48A99L	LL	4.8	81.7	66.5	62.9	62.6	78.0	64.3	61.7	42.8	65.1
Progeny P4525 E3	E3	4.5	78.5	68.2	66.8	54.9	79.6	57.5	61.9	38.7	63.3
Progeny P4565 LR	LL/GT27	4.5	79.9	66.0	65.4	55.1	72.7	72.0	54.2	37.5	62.8
Progeny P4682 E3	E3	4.6	81.8	70.8	68.1	70.8	79.5	63.3	64.5	39.8	67.3
Progeny P4710 E3	E3	4.7	80.0	70.9	64.9	63.7	75.5	66.2	65.8	39.9	65.9
Progeny P4775 E3S	E3/STS	4.7	80.2	78.3	71.0	60.5	76.3	65.3	60.1	44.0	66.9
Progeny P4833 E3	E3	4.8	87.7	71.9	68.8	62.4	74.3	68.1	63.0	40.3	67.1
Progeny P4891 E3	E3	4.8	79.4	71.1	67.9	60.3	71.0	61.1	63.6	40.2	64.3
R15-2422	Conv.	4.7	75.1	61.9	61.5	50.7	62.7	46.8	58.0	37.3	56.8
R16-253	Conv.	4.6	73.4	69.0	64.5	54.4	72.7	61.7	58.8	39.9	61.8
R16-259	Conv.	4.6	74.8	65.3	61.2	55.9	68.9	57.1	58.8	43.5	60.7
S14-15138R	RR1/STS	4.8	79.1	71.5	69.3	59.5	69.9	46.0	61.3	40.4	62.1
USG 7460ET	Enlist	4.6	77.0	64.9	65.6	66.9	77.6	61.5	61.6	39.9	64.4
USG 7480ET	Enlist	4.8	77.1	72.1	70.4	65.6	74.6	64.0	61.8	44.4	66.2
USG 7499ET	Enlist	4.9	81.6	71.5	66.1	50.8	69.7	57.1	59.9	40.1	62.1
GRAND MEAN			79.1	69.3	66.6	59.3	72.5	60.0	60.9	40.6	63.6
LSD (5%)			7.4	6.9	4.5	5.0	7.2	8.3	4.2	4.5	•
C.V.			5.6	5.9	5.0	6.2	7.3	8.2	5.0	8.1	•

Table 3. Yields of Late Maturity Group IV (RM 4.5–4.9) Soybean Varieties and Strains in Arkansas Performance Tests, 2019.^a Continued.

Variety/Experimental Line	Herbicide Technology	Relative Maturity	Keiser	Keiser Late-Planted	Marianna	Pine Tree	Rohwer	Rohwer Late-Planted	Stuttgart	Stuttgart Non-Irrigated	All-Location Average
Xtend Cultivars											
AgriGold G4579RX	Xtend	4.5	81.5	58.6	66.8	54.1	77.9	65.9	63.4	45.3	64.2
AgriGold G4605RX	Xtend	4.6	79.8	65.5	61.4	51.9	60.5	66.0	61.8	42.2	61.1
AgriGold G4815RX	Xtend	4.6	83.4	57.1	65.7	55.0	73.2	67.2	60.4	43.9	63.2
AGS GS48X19	Xtend	4.8	76.8	72.0	67.0	55.8	68.6	66.6	62.1	39.6	63.6
AGS GS49X19	Xtend	4.9	79.1	73.4	65.1	56.7	78.1	72.7	64.3	43.5	66.6
Armor X45D51	Xtend	4.5	77.8	67.2	65.5	53.1	71.9	60.0	56.1	41.0	61.6
Armor X46D09	Xtend	4.6	87.5	68.0	67.1	58.4	73.0	60.0	59.8	47.4	65.2
Armor X46D30	Xtend	4.6	86.1	70.5	65.0	48.1	76.5	64.0	57.8	41.7	63.7
Armor X47D18	Xtend	4.7	76.2	60.0	67.4	59.3	73.8	64.6	61.8	45.0	63.5
Armor X47D85	Xtend	4.7	77.4	60.0	65.6	56.2	74.8	65.1	65.6	44.5	63.6
Armor X47D86	Xtend	4.7	84.5	65.4	64.3	54.9	67.7	60.7	58.4	42.5	62.3
Armor X48D25	Xtend	4.8	80.5	67.5	66.7	55.4	78.5	66.4	65.3	46.2	65.8
Armor X48D88	Xtend	4.8	84.6	66.8	64.9	56.5	68.6	66.0	64.8	40.1	64.0
Armor X49D67	Xtend	4.9	82.9	62.0	68.5	53.0	78.3	66.8	62.1	44.0	64.7
Asgrow AG 46X0	Xtend	4.6	89.3	59.3	63.4	54.6	77.8	73.5	61.7	41.7	65.2
Asgrow AG 46X6	Xtend	4.6	86.5	68.1	67.5	59.2	84.0	57.6	62.6	42.2	65.9
Asgrow AG 47X0	Xtend	4.7	73.7	60.7	57.8	58.6	65.3	59.6	58.5	41.4	59.4
Asgrow AG 47X9	Xtend	4.7	89.0	67.3	62.8	57.7	84.1	62.5	61.1	40.5	65.6
Asgrow AG 48X9	Xtend	4.8	83.4	62.8	64.2	58.7	80.3	62.5	58.7	42.3	64.1
Asgrow AG 49X9	Xtend	4.9	80.9	60.5	59.7	59.4	80.2	58.2	61.5	47.0	63.4
Credenz CZ 4570X	Xtend	4.5	74.7	67.3	66.2	55.8	71.2	51.5	61.9	41.8	61.3
Credenz CZ 4600X	Xtend	4.6	80.5	63.8	63.5	51.2	75.6	54.4	58.2	40.5	61.0
Credenz CZ 4770X	Xtend	4.7	85.5	68.7	70.5	53.6	79.9	65.5	59.2	37.1	65.0
Credenz CZ 4869X	Xtend	4.8	85.6	68.6	66.6	55.8	72.2	61.3	58.1	39.6	63.5
Credenz CZ 4979X	Xtend	4.9	82.4	71.1	67.8	56.9	75.6	65.8	61.6	40.5	65.2
Delta Grow 46X25	Xtend	4.6	85.3	65.2	64.4	53.3	69.1	58.3	63.5	42.6	62.7
Delta Grow 46X65	Xtend/STS	4.6	88.2	54.2	66.6	55.7	67.1	56.4	55.2	33.1	59.6
Delta Grow 48X05	Xtend	4.8	87.1	66.0	71.6	56.9	71.1	57.7	61.3	38.5	63.8
Delta Grow 48X45	Xtend	4.8	85.6	68.8	64.2	51.9	71.6	66.6	61.7	45.4	64.5
Delta Grow 49X15	Xtend	4.9	82.6	70.3	65.1	54.8	64.5	48.1	64.8	40.4	61.3
DONMARIO 47x39	Xtend	4.7	89.9	72.3	68.3	53.7	70.5	58.2	66.1	38.5	64.7
DONMARIO Experimental	Xtend	4.9	79.4	70.5	72.0	53.2	65.0	50.6	66.0	44.0	62.6
Dyna-Gro S45XS37	Xtend/STS	4.5	84.5	72.4	66.9	57.8	75.9	68.7	62.8	41.4	66.3
Dyna-Gro S45XS66	Xtend/STS	4.5	84.7	66.8	69.0	57.1	64.0	61.9	64.7	43.8	64.0
Dyna-Gro S46XS60	Xtend/STS	4.6	84.2	68.4	68.5	55.8	76.4	63.6	64.8	37.8	64.9
Dyna-Gro S47XT20	Xtend	4.7	78.2	61.8	63.6	55.7	74.8	65.5	62.6	41.4	62.9
Dyna-Gro S48XT56	Xtend	4.8	82.5	76.1	70.3	54.5	85.5	62.6	61.7	45.3	67.3
Dyna-Gro S49XT39	Xtend	4.9	76.8	68.8	69.3	55.5	75.5	61.5	64.0	44.9	64.5
Dyna-Gro S49XT70	Xtend	4.9	78.6	64.0	68.2	57.0	82.7	66.3	62.6	38.2	64.7
Eagle Seed ES 4680RYX	Xtend	4.6	86.5	62.3	63.6	59.9	68.6	62.7	58.8	43.5	63.2
Eagle Seed ES 4840RYX	Xtend	4.8	88.2	67.6	69.8	53.3	75.6	63.8	58.8	44.4	65.2
Hefty H46X05	Xtend	4.6	86.3	65.6	64.8	58.2	75.1	54.0	64.4	36.0	63.0
LG Seeds LGC4845RX	Xtend	4.8	87.1	62.6	64.6	50.0	70.1	63.4	57.7	45.5	62.6
LG Seeds LGS46682RX	Xtend	4.6	78.5	57.5	65.3	55.1	69.8	57.3	53.5	38.3	59.4
LG Seeds LGS4899RX	Xtend	4.8	85.9	66.0	66.0	56.4	69.1	67.5	62.2	45.0	64.8
LG Seeds LGS4931RX	Xtend	4.9	81.8	64.8	70.6	57.7	68.4	62.4	65.8	43.7	64.4
Local LS4407X	Xtend	4.5	85.9	66.3	62.0	53.7	72.4	55.3	67.4	35.9	62.4
Local LS4565XS	Xtend	4.5	90.5	67.6	68.1	55.9	73.6	56.1	65.8	36.9	64.3

Table 3. Yields of Late Maturity Group IV (RM 4.5–4.9) Soybean Varieties and Strains in Arkansas Performance Tests, 2019.^a Continued.

Variety/Experimental Line	Herbicide Technology	Relative Maturity	Keiser	Keiser Late-Planted	Marianna	Pine Tree	Rohwer	Rohwer Late-Planted	Stuttgart	Stuttgart Non-Irrigated	All-Location Average
Xtend Cultivars Continued											
Local LS4583X	Xtend	4.5	76.5	61.8	62.8	48.7	66.4	56.6	60.0	33.7	58.3
Local LS4677X	Xtend	4.6	86.6	71.6	63.1	61.3	68.8	60.2	60.5	40.1	64.0
Local LS4798X	Xtend	4.7	78.0	62.8	67.2	44.6	62.4	59.1	59.4	41.1	59.3
Local LS4889XS	Xtend	4.8	81.0	64.4	69.3	53.8	58.0	51.2	65.1	42.0	60.6
Local LS4795XS	Xtend	4.6	84.8	67.0	67.8	58.8	74.1	61.5	62.2	41.3	64.7
Local LS4894X	Xtend	4.8	86.0	71.2	69.3	57.4	66.9	55.8	63.4	38.3	63.5
Local LS4999X	Xtend	4.9	82.9	63.4	69.5	58.0	77.0	62.4	63.0	38.3	64.3
Mission A4618X	Xtend	4.6	77.8	71.1	66.5	52.4	74.9	66.9	59.5	45.8	64.4
Mission A4950X	Xtend	4.9	84.9	69.8	68.6	56.3	73.1	57.4	59.7	40.8	63.8
MorSoy 4706 RXT	Xtend	4.7	71.0	61.9	62.3	51.4	56.6	62.3	57.8	43.4	58.3
MorSoy 4846 RXT	Xtend	4.8	81.9	69.8	68.9	52.8	80.2	65.6	62.7	42.7	65.6
NK S49-F5X	Xtend	4.9	88.7	69.0	64.0	56.2	70.0	68.7	65.9	47.3	66.2
Pioneer P46A57BX	Xtend	4.6	83.1	66.7	66.6	55.3	80.3	69.1	58.6	40.9	65.1
Pioneer P48A60X	Xtend	4.8	88.6	72.5	70.9	61.3	79.8	66.4	62.8	39.4	67.7
Progeny P4620 RXS	Xtend/STS	4.6	89.1	60.8	65.1	55.3	69.4	62.8	59.0	37.9	62.4
Progeny P4670 RX	Xtend	4.6	89.0	66.8	70.2	54.0	72.2	73.0	64.4	39.3	66.1
Progeny P4799 RXS	Xtend/STS	4.7	80.1	66.6	65.1	55.7	73.7	67.4	57.7	40.8	63.4
Progeny P4816 RX	Xtend	4.8	90.7	64.3	66.4	52.8	77.2	57.6	57.6	42.1	63.6
Progeny P4821 RX	Xtend	4.8	85.6	60.1	72.4	57.4	77.9	67.5	64.7	43.2	66.1
Progeny P4851 RX	Xtend	4.8	86.0	66.0	66.3	52.2	59.5	56.6	65.1	52.1	63.0
Progeny P4999 RX	Xtend	4.9	87.2	63.2	72.3	52.9	78.7	52.7	66.0	39.9	64.1
REV 4679X	Xtend	4.6	78.9	61.9	63.4	61.5	70.2	61.1	61.0	42.5	62.5
REV 4927X	Xtend	4.9	86.3	68.3	69.4	57.1	62.5	61.9	67.6	46.4	64.9
REV 4940X	Xtend	4.9	87.7	64.0	64.2	57.5	73.0	60.0	60.0	38.5	63.1
Taylor EXP 47-90	Xtend	4.7	76.1	65.4	59.7	51.1	61.0	62.8	60.1	38.2	59.3
Taylor EXP 48-80	Xtend	4.8	81.6	68.6	66.5	52.3	74.8	70.1	66.0	43.0	65.4
USG 7470XT	Xtend	4.7	82.4	57.3	61.0	60.7	70.5	59.9	56.1	41.2	61.1
USG 7478XTS	Xtend/STS	4.7	85.3	63.6	71.0	61.8	74.6	63.4	64.2	45.4	66.2
USG 7480XT	Xtend	4.8	85.8	65.7	69.2	56.6	69.1	67.7	64.8	37.3	64.5
USG 7489XT	Xtend	4.8	82.4	65.9	73.4	55.0	82.0	63.2	65.0	45.7	66.6
USG 7496XTS	Xtend/STS	4.9	80.5	64.0	72.1	57.6	70.7	56.0	66.5	43.2	63.8
GRAND MEAN			83.2	65.7	66.6	55.5	72.5	62.0	61.9	41.7	63.6
LSD (5%)				7.6	6.8	4.5	5.0	7.9	10.6	5.2	5.7
C.V.				6.8	6.2	5.0	6.7	8.0	10.3	6.2	10.1

^aKeiser = Northeast Research and Extension Center, Keiser, Ark.; Keiser Late-Planted = Northeast Research and Extension Center, Keiser, Ark.; Marianna = Lon Mann Cotton Research

Station, Marianna, Ark.; Pine Tree = Pine Tree Research Station, Colt, Ark.; Rohwer = Rohwer Research Station, Rohwer, Ark.; Rohwer Late-Planted = Rohwer Research Station, Rohwer, Ark.; Stuttgart = Rice Research and Extension Center, Stuttgart, Ark.; Stuttgart Non-Irrigated = Rice Research and Extension Center, Stuttgart, Ark.

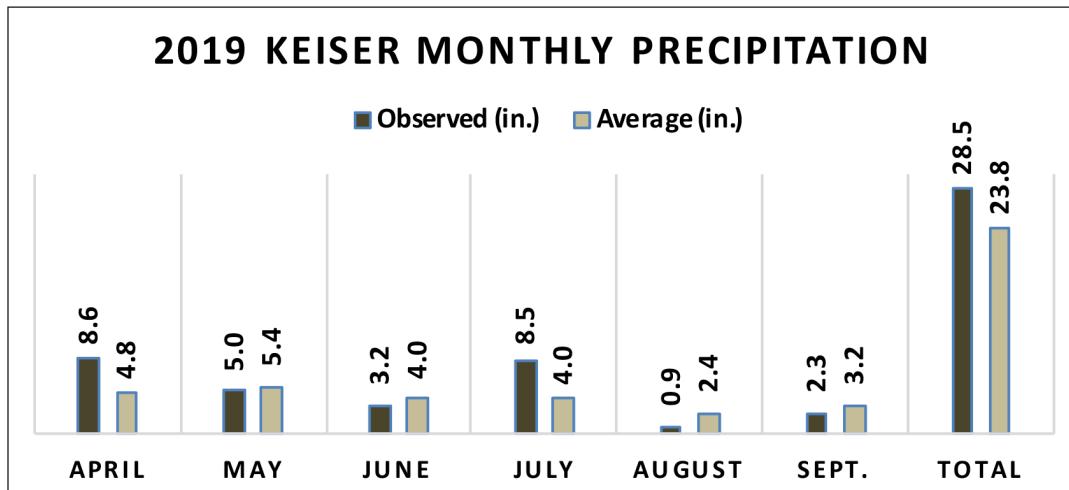
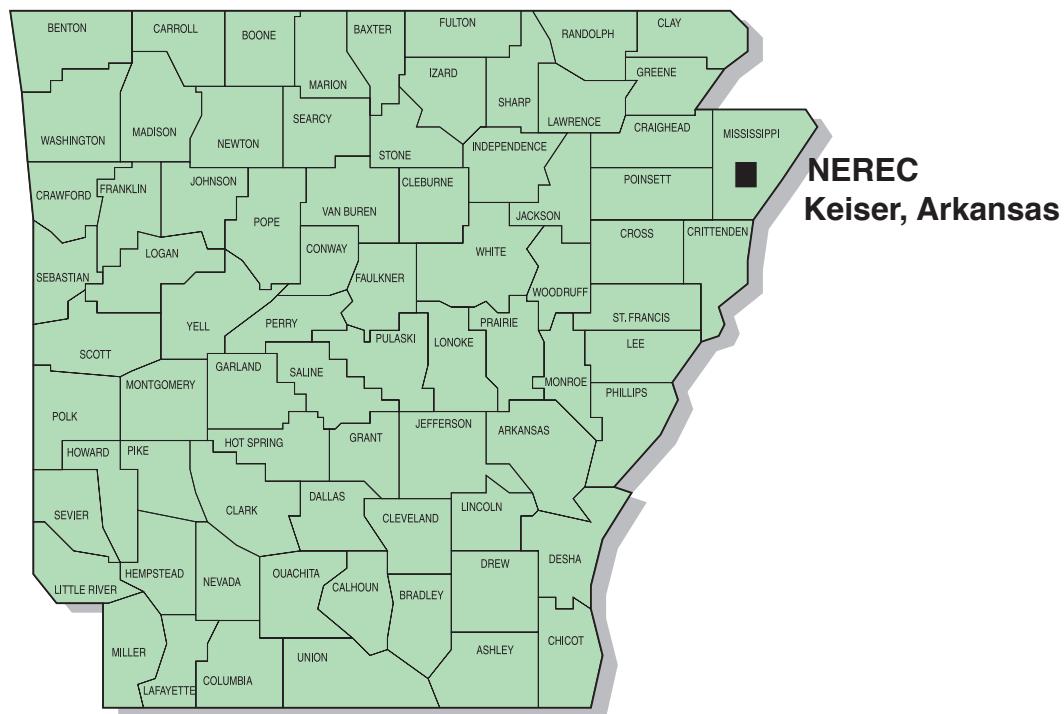
Table 4. Yields of Maturity Group V Soybean Varieties and Strains in Arkansas Performance Tests, 2019.^a

Variety/Experimental Line	Herbicide Technology	Relative Maturity	Keiser	Keiser Late-Planted	Marianna	Pine Tree	Rohwer	Rohwer Late-Planted	Stuttgart	Stuttgart Non-Irrigated	All-Location Average
Non-Xtend Cultivars											
Credenz CZ 5150LL	LL	5.1	77.1	61.1	67.6	60.9	80.0	60.1	63.4	38.0	63.5
Delta Grow 52E22	E3	5.2	82.9	57.3	69.7	58.6	67.6	63.4	64.5	40.8	63.1
Delta Grow 5585RR2	RR2	5.5	80.5	64.6	69.6	65.7	65.3	63.2	63.3	41.3	64.2
Go Soy 50G17	RR1	5.0	72.7	61.2	69.6	68.5	53.3	64.3	61.4	41.4	61.6
Go Soy 512E18	E3	5.1	74.9	57.1	72.0	61.6	66.3	56.0	61.7	42.3	61.5
Hefty H51E9	E3	5.1	78.4	56.1	71.6	58.0	64.1	55.3	61.0	40.6	60.6
Progeny P5211 E3	E3	5.2	84.2	58.2	67.7	59.5	72.3	60.1	55.2	43.0	62.5
R13-13997	Conv.	5.4	83.9	65.1	65.3	67.1	64.6	59.9	66.3	41.1	64.2
R13-14635RR	RR1	5.4	74.6	61.2	65.0	64.4	64.8	61.3	62.0	42.2	61.9
R13-818	Conv.	5.3	68.8	57.0	71.4	62.6	54.1	57.3	64.3	42.4	59.7
R14-1422	Conv.	5.4	80.4	65.6	61.8	64.9	62.1	60.4	67.5	41.1	63.0
R15-1587	Conv.	5.1	78.7	60.5	68.9	67.6	66.3	68.1	63.9	39.8	64.2
R16-1445	Conv.	5.4	81.9	64.3	76.6	64.7	60.4	69.6	63.3	42.3	65.4
R16-2546C	Conv.	5.1	74.2	62.0	62.9	66.4	60.1	55.9	66.8	41.0	61.2
R16-2547	Conv.	5.2	73.9	52.4	63.7	57.9	55.6	60.6	64.0	38.9	58.4
R16-378	Conv.	5.4	76.5	59.5	64.3	58.2	57.7	63.1	66.3	44.5	61.3
R16-39	Conv.	5.1	82.8	56.8	64.1	63.0	59.9	71.5	67.8	37.6	62.9
GRAND MEAN			78.0	60.0	67.7	62.9	63.2	61.8	63.7	41.1	62.3
LSD (5%)				8.3	6.9	5.2	6.0	7.3	10.1	3.2	3.0
C.V.				6.0	8.2	5.5	6.8	8.4	9.4	3.6	5.2
Xtend Cultivars											
AgriGold G5000RX	Xtend	5.0	82.8	57.6	68.4	66.8	72.4	58.4	65.4	45.6	64.7
Armor 51-D77	Xtend	5.1	85.3	67.1	65.8	51.6	67.3	55.1	71.8	41.2	63.1
Armor 52-D71	Xtend	5.2	91.8	56.9	66.6	59.9	69.6	55.0	60.5	46.4	63.3
Armor 55-D57	Xtend	5.5	68.0	65.9	69.5	65.0	66.5	59.3	61.9	44.5	62.6
Asgrow AG 52X9	Xtend	5.2	87.9	57.1	66.2	68.0	71.5	62.7	66.0	40.2	64.9
Asgrow AG 53X0	Xtend	5.3	86.0	56.0	69.7	65.5	73.2	63.1	62.8	47.3	65.4
Credenz CZ 5299X	Xtend	5.2	80.4	63.5	65.7	55.7	67.3	56.9	61.1	42.8	61.7
Delta Grow 52X05	Xtend/STS	5.2	82.9	67.9	63.3	51.7	67.9	50.5	64.9	40.4	61.2
Delta Grow 54X25	Xtend	5.4	92.0	63.7	60.8	62.5	64.7	59.1	63.6	38.1	63.1
Dyna-Gro S52XS39	Xtend/STS	5.2	81.1	52.4	58.7	57.6	73.3	50.2	65.3	42.0	60.1
Dyna-Gro S56XT99	Xtend	5.6	88.4	63.9	74.1	63.8	65.9	53.9	62.1	40.4	64.1
Eagle Seed ES 5155RYX	Xtend	5.1	86.5	59.5	70.4	61.1	73.1	58.9	64.6	38.0	64.0
Local LS5087X	Xtend	5.0	94.8	64.2	72.2	59.5	71.2	60.0	58.5	45.6	65.7
Local LS5386X	Xtend	5.3	82.8	59.5	67.0	58.2	72.2	49.2	62.3	49.0	62.5
Local LS5588X	Xtend	5.5	79.5	66.2	66.6	65.2	68.5	56.4	62.9	38.7	63.0
Progeny P5016 RXS	Xtend/STS	5.0	86.4	52.5	74.8	70.4	71.4	66.4	65.0	49.6	67.0
Progeny P5170 RX	Xtend	5.1	88.7	55.1	69.0	58.3	71.6	57.4	66.2	37.2	62.9
Progeny P5252 RX	Xtend	5.2	79.3	61.7	69.5	58.2	65.3	51.4	64.9	46.7	62.1
Progeny P5335 RX	Xtend	5.3	78.9	53.7	59.6	45.0	58.6	43.1	62.4	45.0	55.8
Progeny P5554 RX	Xtend	5.5	73.1	65.9	70.8	67.3	67.3	54.7	60.1	42.1	62.6
Progeny P5688 RX	Xtend	5.6	77.6	53.2	64.9	63.1	61.0	50.9	62.5	36.2	58.7
GRAND MEAN			83.5	60.2	67.3	60.7	68.6	55.8	63.6	42.7	62.8
LSD (5%)				9.2	9.1	5.1	7.1	8.0	9.2	7.5	6.9
C.V.				7.9	10.9	5.5	8.5	8.5	9.5	8.6	11.7

^aKeiser = Northeast Research and Extension Center, Keiser, Ark.; Keiser Late-Planted = Northeast Research and Extension Center, Keiser, Ark.; Marianna = Lon Mann Cotton Research Station, Marianna, Ark.; Pine Tree = Pine Tree Research Station, Colt, Ark.; Rohwer = Rohwer Research Station, Rohwer, Ark.; Rohwer Late-Planted = Rohwer Research Station, Rohwer, Ark.; Stuttgart = Rice Research and Extension Center, Stuttgart, Ark.; Stuttgart Non-Irrigated = Rice Research and Extension Center, Stuttgart, Ark.

Keiser: Northeast Research and Extension Center (NEREC)

Irrigated Soybean Varieties and Strains, 2019



Soil Series:	Sharkey clay
Previous Crop:	Cotton
Row Spacing:	38 in.
Planting Date:	May 17
Irrigation Dates:	Aug. 5, 16 Sept. 3

Herbicide Application(s):	Valor + Gramoxone + Zidua Prefix	May 18 June 3
Harvest Dates:	Relative Maturity (3.5–4.4) Relative Maturity (4.5–4.9) Relative Maturity (5.0–5.9)	Oct. 4 Oct. 4 Oct. 20

Arkansas Soybean Performance Tests 2019

Table 5. Performance of Irrigated Soybean Varieties and Strains, Northeast Research and Extension Center, Keiser, Ark., 2019.*

Variety/Experimental Line	2019 (bu./ac)	2-Year ^a Average (bu./ac)	3-Year ^b Average (bu./ac)	Maturity Date	Lodging ^c Score	Shatter ^d Score	Plant Height (in.)
Relative Maturity 3.5–4.4							
Non-Xtend Cultivars							
Dyna-Gro S42EN89	79.1	•	•	Sep-18	1.0	0.0	32
Progeny P4241 E3	77.2	•	•	Sep-18	1.0	0.0	34
Go Soy 44GL18	76.9	•	•	Sep-19	1.0	0.0	35
Progeny P4291 LR	76.2	•	•	Sep-18	1.0	0.0	30
Delta Grow 45E23	76.0	•	•	Sep-18	1.0	0.0	32
S13-3851C	74.7	•	•	Sep-18	1.0	0.0	34
S13-2743C	74.2	74.0	•	Sep-18	1.0	0.0	36
Credenz CZ 4222LL	73.9	70.5	68.3	Sep-18	1.0	0.0	33
Credenz CZ 3929GTL	70.8	•	•	Sep-18	1.0	0.0	32
Credenz CZ 3841LL	70.2	63.7	•	Sep-18	1.0	0.0	33
GRAND MEAN	74.9	•	•	Sep-18	1.0	0.0	33
LSD (5%)	4.8	•	•	•	•	•	•
C.V.	4.5	•	•	•	•	•	•
Xtend Cultivars							
NK S44-C7X	90.8	•	•	Sep-20	1.0	0.0	32
Dyna-Gro S41XS98	90.7	•	•	Sep-18	1.0	0.0	35
Asgrow AG 43X0	89.3	•	•	Sep-20	1.0	0.0	41
Armor 44-D92	89.0	•	•	Sep-20	1.0	0.0	45
Progeny P4444 RXS	87.5	77.2	•	Sep-18	1.0	0.0	41
Pioneer P42A96X	86.3	•	•	Sep-19	1.0	0.0	36
Eagle Seed ES 4460RYX	86.1	76.9	70.6	Sep-20	1.0	0.0	38
MorSoy 4447 RXT	85.5	•	•	Sep-18	1.0	0.0	36
AgriGold G4440RX	84.8	75.2	•	Sep-20	1.0	0.0	37
Progeny P4255 RX	84.2	76.4	•	Sep-18	1.0	0.0	41
Local LS3976X	84.1	•	•	Sep-18	1.0	0.0	34
Credenz CZ 4280X	84.0	•	•	Sep-19	1.0	0.0	35
Local LS4299XS	83.8	•	•	Sep-20	1.0	0.0	43
Asgrow AG 42X9	82.2	76.5	•	Sep-20	1.0	0.0	44
REV 4310X	82.2	•	•	Sep-19	1.0	0.0	43
Local LS4487XS	80.9	•	•	Sep-19	1.0	0.0	39
NK S39-G2X	80.8	•	•	Sep-19	1.0	0.0	37
Mission A4448X	78.3	•	•	Sep-18	1.0	0.0	33
Armor 42-D27	76.2	75.8	•	Sep-18	1.0	0.0	34
Progeny P4265 RXS	74.2	•	•	Sep-22	1.0	0.0	39
GRAND MEAN	84.0	•	•	Sep-19	1.0	0.0	38
LSD (5%)	8.8	•	•	•	•	•	•
C.V.	7.6	•	•	•	•	•	•

Table 5. Performance of Irrigated Soybean Varieties and Strains, Northeast Research and Extension Center, Keiser, Ark., 2019,* Continued.

Variety/Experimental Line	2019 (bu./ac)	2-Year ^a Average (bu./ac)	3-Year ^b Average (bu./ac)	Maturity Date	Lodging ^c Score	Shatter ^d Score	Plant Height (in.)
Relative Maturity 4.5–4.9							
Non-Xtend Cultivars							
Local ZS4797E3	91.9	•	•	Sep-23	1.0	0.0	35
Progeny P4833 E3	87.7	•	•	Sep-23	1.0	0.0	37
Hefty H48E9	87.1	•	•	Sep-19	2.0	0.0	32
Go Soy 482E18	86.9	•	•	Sep-19	1.0	0.0	34
Credenz CZ 4918LL	86.5	77.5	•	Sep-23	1.0	0.0	37
Local ZS4694E3S	85.2	•	•	Sep-23	1.0	0.0	32
Delta Grow 47E19	84.7	•	•	Sep-23	1.0	0.0	32
Dyna-Gro S49EN79	84.0	•	•	Sep-23	1.5	0.0	35
Credenz CZ 4820LL	82.2	76.4	•	Sep-20	1.0	0.0	37
Progeny P4682 E3	81.8	•	•	Sep-20	1.0	0.0	35
Pioneer P48A99L	81.7	•	•	Sep-19	1.0	0.0	35
USG 7499ET	81.6	•	•	Sep-23	1.5	0.0	31
Go Soy 46GL18	81.2	•	•	Sep-20	1.0	0.0	42
Dyna-Gro S46EN29	81.0	•	•	Sep-25	1.0	0.0	32
Go Soy 481E19	80.7	•	•	Sep-23	1.0	0.0	41
Local ZS4596GLS	80.7	•	•	Sep-20	1.0	0.0	34
Delta Grow 48E39	80.5	•	•	Sep-20	1.0	0.0	34
Hefty H48E0	80.2	•	•	Sep-23	1.0	0.0	34
Progeny P4775 E3S	80.2	•	•	Sep-19	1.0	0.0	45
Progeny P4710 E3	80.0	•	•	Sep-26	1.0	0.0	37
Progeny P4565LR	79.9	•	•	Sep-20	1.0	0.0	32
Delta Grow 48E10	79.8	•	•	Sep-25	1.0	0.0	39
Progeny P4891 E3	79.4	•	•	Sep-25	1.0	0.0	34
S14-15138R	79.1	•	•	Sep-23	1.0	0.0	34
DONMARIO 48E73	78.9	•	•	Sep-23	1.0	0.0	37
Progeny P4525 E3	78.5	•	•	Sep-20	1.0	0.0	38
Delta Grow 46E29	77.9	•	•	Sep-23	1.0	0.0	37
Hefty H47E0	77.9	•	•	Sep-18	1.0	0.0	34
Delta Grow 48E49	77.7	•	•	Sep-23	1.5	0.0	35
Credenz CZ 4540LL	77.6	69.4	65.1	Sep-23	1.0	0.0	41
USG 7480ET	77.1	•	•	Sep-23	1.0	0.0	32
USG 7460ET	77.0	•	•	Sep-23	1.0	0.0	34
R15-2422	75.1	67.7	•	Sep-23	2.0	0.0	41
Delta Grow 49E29	74.9	•	•	Sep-20	1.0	0.0	37
R16-259	74.8	•	•	Sep-23	1.0	0.0	37
Credenz CZ 4938LL	74.7	69.4	•	Sep-25	1.5	0.0	44
Go Soy 49G16	74.6	72.2	68.3	Sep-23	1.0	0.0	32
Delta Grow 47E25	74.0	•	•	Sep-25	1.0	0.0	37
R16-253	73.4	•	•	Sep-20	1.0	0.0	35
Credenz CZ 4649LL	72.2	68.4	•	Sep-23	1.0	0.0	43
Go Soy 48C17S	71.6	•	•	Sep-23	1.0	0.0	33
Credenz CZ 4539GTLL	71.2	•	•	Sep-19	1.0	0.0	41
Petrus Seed 4916 GT	70.0	70.9	•	Sep-26	1.0	0.0	32
Delta Grow 4977LL/STS	69.5	66.1	61.6	Sep-23	1.5	0.0	43
Grand Mean	79.1	•	•	Sep-22	1.1	0.0	36
LSD (5%)	7.4	•	•	•	0.4	•	•
C.V.	5.6	•	•	•	21.8	•	•
Xtend Cultivars							
Progeny P4816RX	90.7	82.1	76.3	Sep-24	1.0	0.0	33
Local LS4565XS	90.5	72.6	•	Sep-20	1.0	0.0	35
DONMARIO 47x39	89.9	•	•	Sep-23	2.0	0.0	36
Asgrow AG 46X0	89.3	•	•	Sep-23	1.0	0.0	41
Progeny P4620RXS	89.1	79.9	76.2	Sep-23	1.0	0.0	39
Asgrow AG 47X9	89.0	76.9	•	Sep-20	1.0	0.0	35
Progeny P4670RX	89.0	•	•	Sep-24	1.0	0.0	41
NK S49-F5X	88.7	•	•	Sep-23	1.0	0.0	34
Pioneer P48A60X	88.6	80.8	•	Sep-20	1.0	0.0	35
Delta Grow 46X65	88.2	•	•	Sep-19	1.0	0.0	37
Eagle Seed ES 4840RYX	88.2	82.6	•	Sep-23	1.3	0.0	39
REV 4940X	87.7	•	•	Sep-20	1.0	0.0	37
Armor X46D09	87.5	•	•	Sep-25	1.0	0.0	35
Progeny P4999RX	87.2	•	•	Sep-23	1.3	0.0	35
Delta Grow 48X05	87.1	•	•	Sep-23	1.0	0.0	37

Arkansas Soybean Performance Tests 2019

Table 5. Performance of Irrigated Soybean Varieties and Strains, Northeast Research and Extension Center, Keiser, Ark., 2019,* Continued.

Variety/Experimental Line	2019 (bu./ac)	2-Year ^a Average (bu./ac)	3-Year ^b Average (bu./ac)	Maturity Date	Lodging ^c Score	Shatter ^d Score	Plant Height (in.)
Xtend Cultivars, Continued							
LG Seeds LGC4845RX	87.1	78.1	•	Sep-25	1.0	0.0	34
Local LS4677X	86.6	•	•	Sep-23	1.0	0.0	45
Eagle Seed ES 4680RYX	86.5	79.6	74.7	Sep-19	1.0	0.0	35
Asgrow AG 46X6	86.5	75.3	•	Sep-23	1.0	0.0	36
Hefty H46X05	86.3	•	•	Sep-23	1.0	0.0	39
REV 4927X	86.3	80.1	•	Sep-23	1.7	0.0	39
Armor X46D30	86.1	•	•	Sep-20	1.0	0.0	37
Local LS4894X	86.0	•	•	Sep-23	1.0	0.0	41
Progeny P4851RX	86.0	80.7	•	Sep-23	2.3	0.0	41
Local LS4407X	85.9	82.1	•	Sep-24	1.0	0.0	39
LG Seeds LGS4899RX	85.9	•	•	Sep-20	1.0	0.0	42
USG 7480XT	85.8	•	•	Sep-23	1.0	0.0	38
Credenz CZ 4869X	85.6	•	•	Sep-20	1.0	0.0	39
Delta Grow 48X45	85.6	78.8	•	Sep-25	1.0	0.0	35
Progeny P4821RX	85.6	•	•	Sep-23	1.0	0.0	41
Credenz CZ 4770X	85.5	•	•	Sep-23	1.0	0.0	39
USG 7478XTS	85.3	•	•	Sep-23	1.0	0.0	37
Delta Grow 46X25	85.3	77.8	•	Sep-20	1.0	0.0	39
Mission A4950X	84.9	•	•	Sep-20	1.0	0.0	36
Local LS4795XS	84.8	74.4	•	Sep-25	2.0	0.0	41
Dyna-Gro S45XS66	84.7	77.0	71.9	Sep-20	1.7	0.0	40
Armor X48D88	84.6	•	•	Sep-25	1.0	0.0	39
Dyna-Gro S45XS37	84.5	76.3	•	Sep-23	1.0	0.0	35
Armor X47D86	84.5	•	•	Sep-23	1.0	0.0	37
Dyna-Gro S46XS60	84.2	•	•	Sep-23	1.0	0.0	37
Asgrow AG 48X9	83.4	77.0	•	Sep-23	1.0	0.0	41
AgriGold G4815RX	83.4	•	•	Sep-23	1.0	0.0	37
Pioneer P46A57BX	83.1	72.3	•	Sep-20	1.0	0.0	41
Local LS4999X	82.9	•	•	Sep-23	1.0	0.0	43
Armor X49D67	82.9	•	•	Sep-26	1.0	0.0	41
Delta Grow 49X15	82.6	•	•	Sep-23	1.0	0.0	41
Dyna-Gro S48XT56	82.5	78.9	73.8	Sep-24	1.0	0.0	37
USG 7470XT	82.4	•	•	Sep-23	1.0	0.0	39
Credenz CZ 4979X	82.4	•	•	Sep-24	1.3	0.0	39
USG 7489XT	82.4	•	•	Sep-25	1.0	0.0	41
MorSoy 4846 RXT	81.9	•	•	Sep-25	1.0	0.0	37
LG Seeds LGS4931RX	81.8	•	•	Sep-25	1.0	0.0	39
Taylor EXP 48-80	81.6	•	•	Sep-18	1.3	0.0	32
AgriGold G4579RX	81.5	70.8	•	Sep-23	1.0	0.0	37
Local LS4889XS	81.0	•	•	Sep-20	1.0	0.0	34
Asgrow AG 49X9	80.9	79.7	•	Sep-24	1.0	0.0	37
Credenz CZ 4600X	80.5	•	•	Sep-23	1.0	0.0	37
USG 7496XTS	80.5	75.6	70.3	Sep-26	1.0	0.0	41
Armor X48D25	80.5	•	•	Sep-23	1.0	0.0	37
Progeny P4799RXS	80.1	70.5	66.8	Sep-23	1.0	0.0	45
AgriGold G4605RX	79.8	73.2	•	Sep-20	2.0	0.0	46
DONMARIO Experimental	79.4	•	•	Sep-26	1.0	0.0	40
AGS GS49X19	79.1	•	•	Sep-25	1.0	0.0	49
REV 4679X	78.9	71.5	•	Sep-20	1.0	0.0	37
Dyna-Gro S49XT70	78.6	•	•	Sep-20	1.0	0.0	44
LG Seeds LGS46682RX	78.5	•	•	Sep-19	1.0	0.0	41
Dyna-Gro S47XT20	78.2	•	•	Sep-20	1.0	0.0	39
Local LS4798X	78.0	•	•	Sep-23	1.0	0.0	39
Armor X45D51	77.8	•	•	Sep-21	1.0	0.0	41
Mission A4618X	77.8	•	•	Sep-23	1.0	0.0	35
Armor X47D85	77.4	•	•	Sep-19	1.0	0.0	37
AGS GS48X19	76.8	•	•	Sep-25	1.0	0.0	37
Dyna-Gro S49XT39	76.8	74.5	•	Sep-25	1.0	0.0	47
Local LS4583X	76.5	76.3	•	Sep-23	1.3	0.0	41
Armor X47D18	76.2	•	•	Sep-20	1.0	0.0	42
Taylor EXP 47-90	76.1	•	•	Sep-23	1.7	0.0	41
Credenz CZ 4570X	74.7	•	•	Sep-23	1.0	0.0	37
Asgrow AG 47X0	73.7	•	•	Sep-23	1.0	0.0	43
MorSoy 4706 RXT	71.0	•	•	Sep-23	1.0	0.0	45
Grand Mean	83.2	•	•	Sep-22	1.1	0.0	39
LSD (5%)	7.6	•	•	•	0.3	•	•
C.V.	6.8	•	•	•	17.8	•	•

Table 5. Performance of Irrigated Soybean Varieties and Strains, Northeast Research and Extension Center, Keiser, Ark., 2019,* Continued.

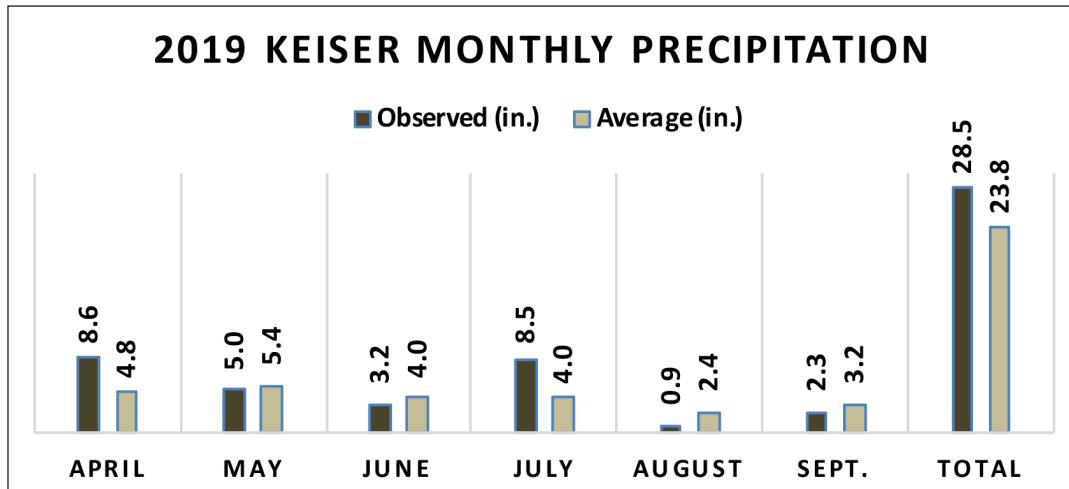
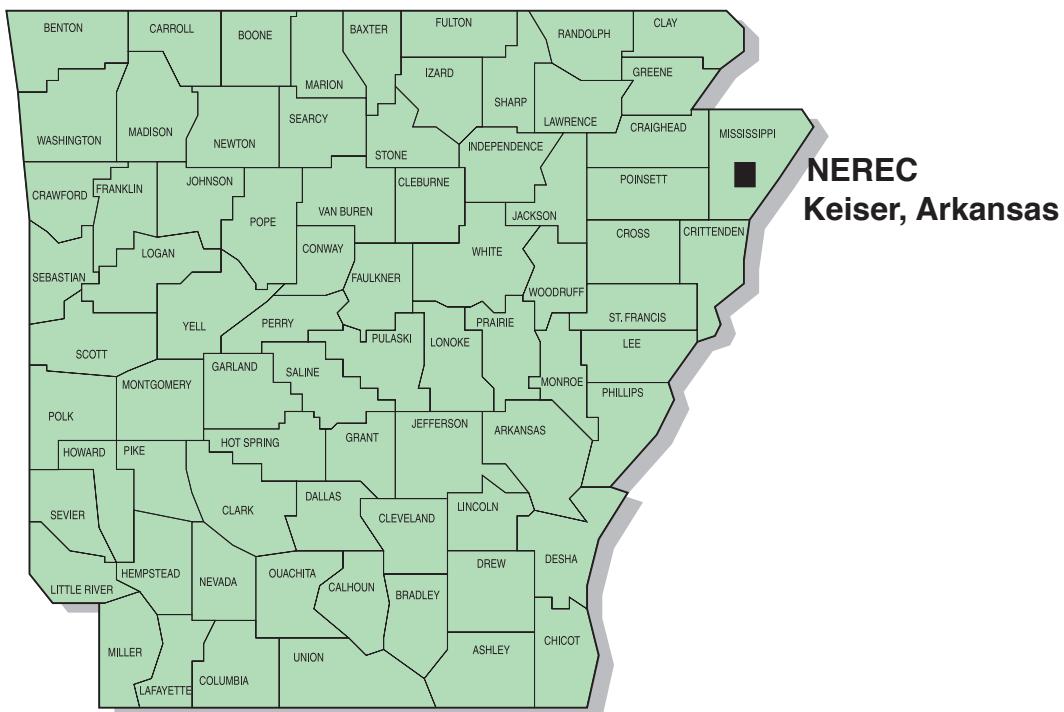
Variety/Experimental Line	2019 (bu./ac)	2-Year ^a Average (bu./ac)	3-Year ^b Average (bu./ac)	Maturity Date	Lodging ^c Score	Shatter ^d Score	Plant Height (in.)
Relative Maturity 5.0–5.9							
Non-Xtend Cultivars							
Progeny P5211 E3	84.2	•	•	Sep-28	1.5	0.0	34
R13-13997	83.9	76.6	•	Oct-02	1.0	0.0	35
Delta Grow 52E22	82.9	•	•	Sep-28	2.0	0.0	34
R16-39	82.8	•	•	Sep-30	1.0	0.0	26
R16-1445	81.9	•	•	Oct-02	1.0	0.0	31
Delta Grow 5585RR2	80.5	75.9	•	Oct-02	1.0	0.0	32
R14-1422	80.4	78.9	•	Sep-30	1.0	0.0	35
R15-1587	78.7	77.7	•	Oct-02	1.0	0.0	30
Hefty H51E9	78.4	•	•	Sep-28	2.0	0.0	34
Credenz CZ 5150LL	77.1	73.5	68.8	Sep-28	2.0	0.0	39
R16-378	76.5	•	•	Oct-02	1.0	0.0	32
Go Soy 512E18	74.9	•	•	Sep-28	1.5	0.0	37
R13-14635RR	74.6	•	•	Oct-02	1.0	0.0	39
R16-2546C	74.2	•	•	Sep-30	1.5	0.0	32
R16-2547	73.9	•	•	Sep-28	1.0	0.0	32
Go Soy 50G17	72.7	73.3	•	Sep-28	1.0	0.0	32
R13-818	68.8	70.3	•	Oct-02	1.0	0.0	33
Grand Mean	78.0	•	•	Sep-30	1.3	0.0	33
LSD (5%) (5%)	8.3	•	•	•	0.5	•	•
C.V.	6.0	•	•	•	24.0	•	•
Xtend Cultivars							
Local LS5087X	94.8	79.8	•	Sep-29	1.3	0.0	41
Delta Grow 54X25	92.0	•	•	Sep-30	1.0	0.0	39
Armor 52-D71	91.8	82.4	•	Sep-30	1.0	0.0	43
Progeny P5170RX	88.7	•	•	Sep-29	1.0	0.0	43
Dyna-Gro S56XT99	88.4	80.6	•	Oct-01	1.0	0.0	37
Asgrow AG 52X9	87.9	80.0	•	Sep-28	1.0	0.0	37
Eagle Seed ES 5155RYX	86.5	•	•	Sep-29	1.3	0.0	39
Progeny P5016RXS	86.4	77.2	71.0	Sep-29	1.0	0.0	38
Asgrow AG 53X0	86.0	•	•	Sep-29	1.0	0.0	41
Armor 51-D77	85.3	•	•	Oct-02	2.0	0.0	45
Delta Grow 52X05	82.9	•	•	Sep-30	1.0	0.0	43
Local LS5386X	82.8	•	•	Sep-30	1.0	0.0	41
AgriGold G5000RX	82.8	72.5	•	Sep-29	1.0	0.0	43
Dyna-Gro S52XS39	81.1	•	•	Sep-30	1.0	0.0	43
Credenz CZ 5299X	80.4	•	•	Sep-29	1.0	0.0	45
Local LS5588X	79.5	•	•	Oct-04	1.0	0.0	35
Progeny P5252RX	79.3	74.4	•	Sep-30	1.3	0.0	43
Progeny P5335RX	78.9	•	•	Oct-04	2.0	0.0	45
Progeny P5688RX	77.6	76.1	•	Oct-04	1.0	0.0	32
Progeny P5554RX	73.1	73.3	•	Oct-05	1.0	0.0	32
Armor 55-D57	68.0	69.5	•	Oct-05	1.0	0.0	37
Grand Mean	83.5	•	•	Sep-30	1.1	0.0	40
LSD (5%)	9.2	•	•	•	0.3	•	•
C.V.	7.9	•	•	•	19.1	•	•

^aAverage yield from 2018, and 2019.^bAverage yield from 2016, 2018, and 2019.^cLodging scale: 1 (<10°), 2 (11–20°), 3 (21–30°), 4 (31–40°), 5 (41–50°), 6 (51–60°), 7 (61–70°), 8 (71–80°), 9 (81–90°).^dShattering scale : 0 (<10%), 1 (11–20%), 2 (21–30%), 3 (31–40%), 4 (41–50%), 5 (51–60%), 6 (61–70%), 7 (71–80%), 8 (81–90%), 9 (91–100%).

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

Keiser: Northeast Research and Extension Center (NEREC)

Irrigated, Late-Planted Soybean Varieties and Strains, 2019



Soil Series: Sharkey clay
Previous Crop: Cotton
Row Spacing: 38 in.
Planting Date: June 3
Irrigation Dates: Aug. 5, 16
 Sept. 3

Herbicide Application(s): Panther + Gramoxone + Zidua Section June 3
 June 12

Harvest Dates: Relative Maturity (3.5–4.4) Oct. 5
 Relative Maturity (4.5–4.9) Oct. 5
 Relative Maturity (5.0–5.9) Nov. 19

Table 6. Performance of Irrigated, Late-Planted Soybean Varieties and Strains, Northeast Research and Extension Center, Keiser, Ark., 2019.*

Variety/Experimental Line	2019 (bu./ac)	Maturity Date	Lodging Score ^a	Shatter Score ^b	Plant Height (in.)
Relative Maturity 3.5–4.4					
Non-Xtend Cultivars					
S13-3851C	79.7	Sep-25	1.0	0.0	35
Dyna-Gro S42EN89	78.9	Sep-24	1.0	0.0	35
Delta Grow 45E23	77.4	Sep-24	1.0	0.0	38
S13-2743C	76.3	Sep-24	1.0	0.0	36
Progeny P4241 E3	76.2	Sep-24	1.0	0.0	35
Progeny P4291LR	75.7	Sep-24	1.0	0.0	32
Credenz CZ 3929GTLL	74.2	Sep-25	1.0	0.0	39
Credenz CZ 3841LL	73.8	Sep-24	1.0	0.0	38
Credenz CZ 4222LL	73.2	Sep-25	1.0	0.0	34
Go Soy 44GL18	71.0	Sep-27	1.0	0.0	38
Grand Mean	75.7	Sep-24	1.0	0.0	36
LSD (5%)	4.1	•	•	•	•
C.V.	3.7	•	•	•	•
Xtend Cultivars					
Progeny P4444RXS	81.6	Sep-24	1.0	0.0	35
NK S44-C7X	80.8	Sep-27	1.0	0.0	36
MorSoy 4447 RXT	77.2	Sep-23	1.0	0.0	34
Armor 42-D27	76.2	Sep-25	1.0	0.0	37
Progeny P4255RX	74.2	Sep-24	1.0	0.0	35
Local LS4487XS	74.0	Sep-23	1.0	0.0	39
Armor 44-D92	73.5	Sep-26	1.0	0.0	40
Pioneer P42A96X	73.2	Sep-25	1.0	0.0	31
Local LS3976X	72.4	Sep-24	1.0	0.0	35
Dyna-Gro S41XS98	70.9	Sep-23	1.0	0.0	39
Mission A4448X	70.4	Sep-26	1.0	0.0	36
Asgrow AG 43X0	69.5	Sep-25	1.0	0.0	42
AgriGold G4440RX	69.2	Sep-27	1.3	0.0	39
Local LS4299XS	69.2	Sep-26	1.0	0.0	41
Credenz CZ 4280X	68.4	Sep-24	1.0	0.0	33
REV 4310X	68.4	Sep-26	1.0	0.0	43
Eagle Seed ES 4460RYX	67.2	Sep-26	1.0	0.0	38
Asgrow AG 42X9	67.1	Sep-25	1.0	0.0	43
NK S39-G2X	66.7	Sep-23	1.0	0.0	40
Progeny P4265RXS	64.2	Sep-27	1.0	0.0	36
Grand Mean	71.7	Sep-24	1.0	0.0	38
LSD (5%)	5.9	•	0.2	•	•
C.V.	5.9	•	12.7	•	•

Table 6. Performance of Irrigated, Late-Planted Soybean Varieties and Strains, Northeast Research and Extension Center, Keiser, Ark., 2019,* Continued.

Variety/Experimental Line	2019 (bu./ac)	Maturity Date	Lodging Score ^a	Shatter Score ^b	Plant Height (in.)
Relative Maturity 4.5–4.9					
Non-Xtend Cultivars					
Progeny P4775 E3S	78.3	Sep-29	1.0	0.0	34
Credenz CZ 4820LL	77.5	Sep-29	1.0	0.0	34
Local ZS4596GLS	75.6	Sep-29	1.0	0.0	41
Local ZS4797E3	75.1	Sep-30	1.0	0.0	42
Hefty H48E9	74.6	Sep-29	2.0	0.0	37
Hefty H48E0	74.6	Sep-29	1.0	0.0	32
Hefty H47E0	73.6	Sep-27	1.0	0.0	37
Local ZS4694E3S	73.5	Oct-02	1.0	0.0	34
Go Soy 482E18	73.4	Sep-29	1.5	0.0	37
USG 7480ET	72.1	Oct-01	1.0	0.0	39
Progeny P4833 E3	71.9	Sep-30	1.0	0.0	34
S14-15138R	71.5	Sep-27	1.0	0.0	34
USG 7499ET	71.5	Sep-30	1.5	0.0	36
Progeny P4891 E3	71.1	Oct-03	1.0	0.0	37
Progeny P4710 E3	70.9	Oct-03	1.0	0.0	33
Delta Grow 47E25	70.8	Sep-29	1.0	0.0	35
Progeny P4682 E3	70.8	Sep-29	1.0	0.0	34
Delta Grow 48E39	69.5	Sep-28	1.0	0.0	34
Credenz CZ 4649LL	69.4	Sep-30	1.0	0.0	39
Dyna-Gro S49EN79	69.4	Oct-04	1.5	0.0	37
Delta Grow 49E29	69.4	Sep-27	1.0	0.0	34
Go Soy 49G16	69.4	Oct-03	1.0	0.0	32
Petrus Seed 4916 GT	69.1	Oct-03	1.0	0.0	32
R16-253	69.0	Sep-28	1.0	0.0	35
Credenz CZ 4918LL	68.9	Sep-29	1.0	0.0	32
Credenz CZ 4938LL	68.4	Sep-30	1.0	0.0	43
Credenz CZ 4540LL	68.3	Sep-29	1.0	0.0	42
Credenz CZ 4539GTLL	68.3	Sep-29	1.0	0.0	37
Progeny P4525 E3	68.2	Sep-28	1.0	0.0	34
Delta Grow 48E49	68.0	Sep-28	1.0	0.0	32
Go Soy 48C17S	66.7	Sep-29	1.0	0.0	32
Go Soy 46GL18	66.7	Sep-28	1.0	0.0	37
Delta Grow 4977LL/STS	66.6	Sep-30	1.0	0.0	39
Pioneer P48A99L	66.5	Sep-29	1.0	0.0	35
Delta Grow 46E29	66.3	Sep-28	1.0	0.0	32
Delta Grow 48E10	66.2	Sep-29	1.0	0.0	36
Progeny P4565LR	66.0	Sep-29	1.0	0.0	34
Dyna-Gro S46EN29	65.4	Sep-30	1.0	0.0	35
Go Soy 481E19	65.4	Sep-30	1.0	0.0	34
R16-259	65.3	Oct-03	1.0	0.0	34
DONMARIO 48E73	65.0	Sep-29	1.0	0.0	33
USG 7460ET	64.9	Sep-29	1.0	0.0	38
R15-2422	61.9	Sep-30	1.5	0.0	39
Delta Grow 47E19	56.0	Sep-29	1.0	0.0	34
Grand Mean	69.3	Sep-29	1.1	0.0	35
LSD (5%)	6.9	•	0.3	•	•
C.V.	5.9	•	19.3	•	•

Table 6. Performance of Irrigated, Late-Planted Soybean Varieties and Strains, Northeast Research and Extension Center, Keiser, Ark., 2019,* Continued.

Variety/Experimental Line	2019 (bu./ac)	Maturity Date	Lodging Score ^a	Shatter Score ^b	Plant Height (in.)
Relative Maturity 4.5–4.9					
Xtend Cultivars					
Dyna-Gro S48XT56	76.1	Sep-30	1.0	0.0	34
AGS GS49X19	73.4	Sep-30	2.0	0.0	43
Pioneer P48A60X	72.5	Sep-30	1.0	0.0	37
Dyna-Gro S45XS37	72.4	Sep-30	1.5	0.0	41
DONMARIO 47x39	72.3	Oct-03	1.5	0.0	37
AGS GS48X19	72.0	Sep-29	1.0	0.0	34
Local LS4677X	71.6	Oct-03	1.0	0.0	41
Local LS4894X	71.2	Oct-02	1.0	0.0	36
Mission A4618X	71.1	Sep-29	1.0	0.0	41
Credenz CZ 4979X	71.1	Sep-30	1.0	0.0	39
DONMARIO Experimental	70.5	Oct-03	1.0	0.0	39
Armor X46D30	70.5	Sep-28	1.0	0.0	32
Delta Grow 49X15	70.3	Oct-03	1.0	0.0	37
MorSoy 4846 RXT	69.8	Oct-03	1.0	0.0	39
Mission A4950X	69.8	Sep-30	1.5	0.0	39
NK S49-F5X	69.0	Sep-30	1.0	0.0	34
Delta Grow 48X45	68.8	Oct-03	1.0	0.0	35
Dyna-Gro S49XT39	68.8	Sep-30	1.0	0.0	37
Credenz CZ 4770X	68.7	Sep-30	1.0	0.0	43
Credenz CZ 4869X	68.6	Sep-29	1.0	0.0	32
Taylor EXP 48-80	68.6	Sep-30	1.0	0.0	39
Dyna-Gro S46XS60	68.4	Sep-30	1.0	0.0	32
REV 4927X	68.3	Sep-30	1.0	0.0	35
Asgrow AG 46X6	68.1	Sep-30	1.0	0.0	35
Armor X46D09	68.0	Sep-29	1.0	0.0	39
Eagle Seed ES 4840RYX	67.6	Sep-29	1.0	0.0	34
Local LS4565XS	67.6	Sep-29	1.0	0.0	35
Armor X48D25	67.5	Sep-30	1.0	0.0	35
Asgrow AG 47X9	67.3	Sep-29	1.0	0.0	33
Credenz CZ 4570X	67.3	Sep-30	1.5	0.0	37
Armor X45D51	67.2	Sep-28	1.0	0.0	37
Local LS4795XS	67.0	Sep-30	2.0	0.0	43
Armor X48D88	66.8	Sep-30	1.0	0.0	34
Progeny P4670RX	66.8	Oct-03	1.0	0.0	34
Dyna-Gro S45XS66	66.8	Sep-29	1.0	0.0	39
Pioneer P46A57BX	66.7	Sep-29	1.0	0.0	37
Progeny P4799RXS	66.6	Sep-29	1.0	0.0	41
Local LS4407X	66.3	Sep-30	1.5	0.0	41
Delta Grow 48X05	66.0	Sep-29	1.0	0.0	35
LG Seeds LGS4899RX	66.0	Oct-02	1.0	0.0	34
Progeny P4851RX	66.0	Sep-30	2.0	0.0	45

Table 6. Performance of Irrigated, Late-Planted Soybean Varieties and Strains, Northeast Research and Extension Center, Keiser, Ark., 2019,* Continued.

Variety/Experimental Line	2019 (bu./ac)	Maturity Date	Lodging Score ^a	Shatter Score ^b	Plant Height (in.)
Relative Maturity 4.5–4.9					
Xtend Cultivars, Continued					
USG 7489XT	65.9	Oct-02	1.0	0.0	34
USG 7480XT	65.7	Oct-02	1.0	0.0	32
Hefty H46X0S	65.6	Sep-28	1.0	0.0	35
AgriGold G4605RX	65.5	Sep-29	1.0	0.0	45
Taylor EXP 47-90	65.4	Sep-30	1.0	0.0	41
Armor X47D86	65.4	Sep-30	1.0	0.0	35
Delta Grow 46X25	65.2	Oct-02	1.0	0.0	34
LG Seeds LGS4931RX	64.8	Oct-03	1.0	0.0	41
Local LS4889XS	64.4	Sep-30	1.0	0.0	34
Progeny P4816RX	64.3	Oct-03	1.0	0.0	33
Dyna-Gro S49XT70	64.0	Sep-30	1.0	0.0	37
REV 4940X	64.0	Sep-29	1.0	0.0	34
USG 7496XTS	64.0	Oct-03	1.0	0.0	39
Credenz CZ 4600X	63.8	Sep-29	1.0	0.0	45
USG 7478XTS	63.6	Sep-30	1.0	0.0	35
Local LS4999X	63.4	Sep-29	1.0	0.0	37
Progeny P4999RX	63.2	Sep-30	1.0	0.0	37
Local LS4798X	62.8	Sep-30	1.0	0.0	34
Asgrow AG 48X9	62.8	Oct-04	1.0	0.0	32
LG Seeds LGC4845RX	62.6	Oct-03	1.0	0.0	32
Eagle Seed ES 4680RYX	62.3	Oct-03	1.0	0.0	32
Armor X49D67	62.0	Oct-03	1.0	0.0	34
MorSoy 4706 RXT	61.9	Oct-02	1.0	0.0	39
REV 4679X	61.9	Sep-29	1.0	0.0	37
Local LS4583X	61.8	Sep-29	1.0	0.0	37
Dyna-Gro S47XT20	61.8	Sep-28	1.0	0.0	37
Progeny P4620RXS	60.8	Sep-30	1.0	0.0	35
Asgrow AG 47X0	60.7	Oct-02	1.0	0.0	35
Asgrow AG 49X9	60.5	Oct-03	1.0	0.0	32
Progeny P4821RX	60.1	Oct-03	1.0	0.0	35
Armor X47D18	60.0	Sep-30	1.0	0.0	41
Armor X47D85	60.0	Oct-03	1.0	0.0	32
Asgrow AG 46X0	59.3	Oct-03	1.0	0.0	32
AgriGold G4579RX	58.6	Oct-03	1.0	0.0	34
LG Seeds LGS46682RX	57.5	Sep-29	1.0	0.0	34
USG 7470XT	57.3	Sep-30	1.0	0.0	30
AgriGold G4815RX	57.1	Sep-29	1.0	0.0	37
Delta Grow 46X65	54.2	Sep-30	1.0	0.0	34
Grand Mean	65.7	Sep-30	1.1	0.0	36
LSD (5%)	6.8	•	0.3	•	•
C.V.	6.2	•	16.2	•	•

Table 6. Performance of Irrigated, Late-Planted Soybean Varieties and Strains, Northeast Research and Extension Center, Keiser, Ark., 2019,* Continued.

Variety/Experimental Line	2019 (bu./ac)	Maturity Date	Lodging Score ^a	Shatter Score ^b	Plant Height (in.)
Relative Maturity 5.0–5.9					
Non-Xtend Cultivars					
R14-1422	65.6	Oct-03	1.0	0.0	30
R13-13997	65.1	Oct-03	1.0	0.0	29
Delta Grow 5585RR2	64.6	Oct-04	1.0	0.0	29
R16-1445	64.3	Oct-05	1.0	0.0	30
R16-2546C	62.0	Oct-02	1.0	0.0	28
Go Soy 50G17	61.2	Oct-01	1.0	0.0	31
R13-14635RR	61.2	Oct-03	1.0	0.0	33
Credenz CZ 5150LL	61.1	Oct-02	1.0	0.0	31
R15-1587	60.5	Oct-04	1.0	0.0	28
R16-378	59.5	Oct-04	1.0	0.0	37
Progeny P5211 E3	58.2	Oct-03	1.0	0.0	33
Delta Grow 52E22	57.3	Oct-03	1.0	0.0	30
Go Soy 512E18	57.1	Oct-04	1.0	0.0	35
R13-818	57.0	Oct-05	1.0	0.0	30
R16-39	56.8	Oct-02	1.0	0.0	24
Hefty H51E9	56.1	Oct-04	1.0	0.0	31
R16-2547	52.4	Oct-06	1.0	0.0	28
Grand Mean	60.0	Oct-03	1.0	0.0	30
LSD (5%)	6.9	•	•	•	•
C.V.	8.2	•	•	•	•
Xtend Cultivars					
Delta Grow 52X05	67.9	Oct-04	1.0	0.0	34
ARMOR 51-D77	67.1	Oct-05	1.0	0.0	34
Local LS5588X	66.2	Oct-04	1.0	0.0	30
ARMOR 55-D57	65.9	Oct-05	1.0	0.0	31
Progeny P5554RX	65.9	Oct-04	1.0	0.0	31
Local LS5087X	64.2	Oct-02	1.0	0.0	37
Dyna-Gro S56XT99	63.9	Oct-03	1.0	0.0	26
Delta Grow 54X25	63.7	Oct-02	1.0	0.0	28
Credenz CZ 5299X	63.5	Oct-04	1.3	0.0	33
Progeny P5252RX	61.7	Oct-03	2.0	0.0	35
Eagle Seed ES 5155RYX	59.5	Oct-02	1.0	0.0	35
Local LS5386X	59.5	Oct-05	1.0	0.0	31
AgriGold G5000RX	57.6	Oct-02	1.3	0.0	31
Asgrow AG 52X9	57.1	Oct-03	1.0	0.0	34
ARMOR 52-D71	56.9	Oct-03	1.0	0.0	32
ASGROW AG 53X0	56.0	Oct-02	1.0	0.0	35
Progeny P5170RX	55.1	Oct-02	1.3	0.0	37
Progeny P5335RX	53.7	Oct-04	1.0	0.0	33
Progeny P5688RX	53.2	Oct-03	1.0	0.0	33
Progeny P5016RXS	52.5	Oct-04	1.0	0.0	36
Dyna-Gro S52XS39	52.4	Oct-02	2.0	0.0	35
Grand Mean	60.2	Oct-03	1.1	0.0	33
LSD (5%)	9.1	•	0.3	•	•
C.V.	10.9	•	19.1	•	•

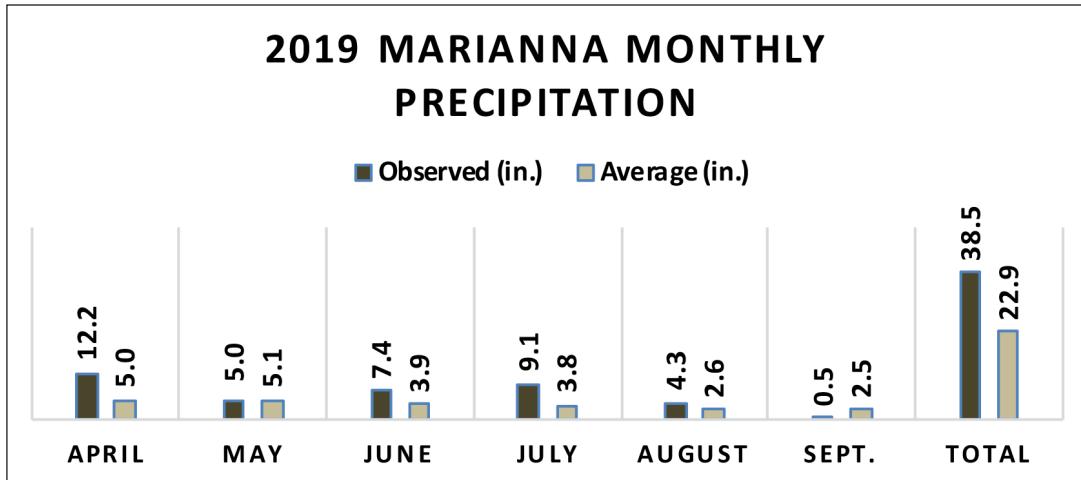
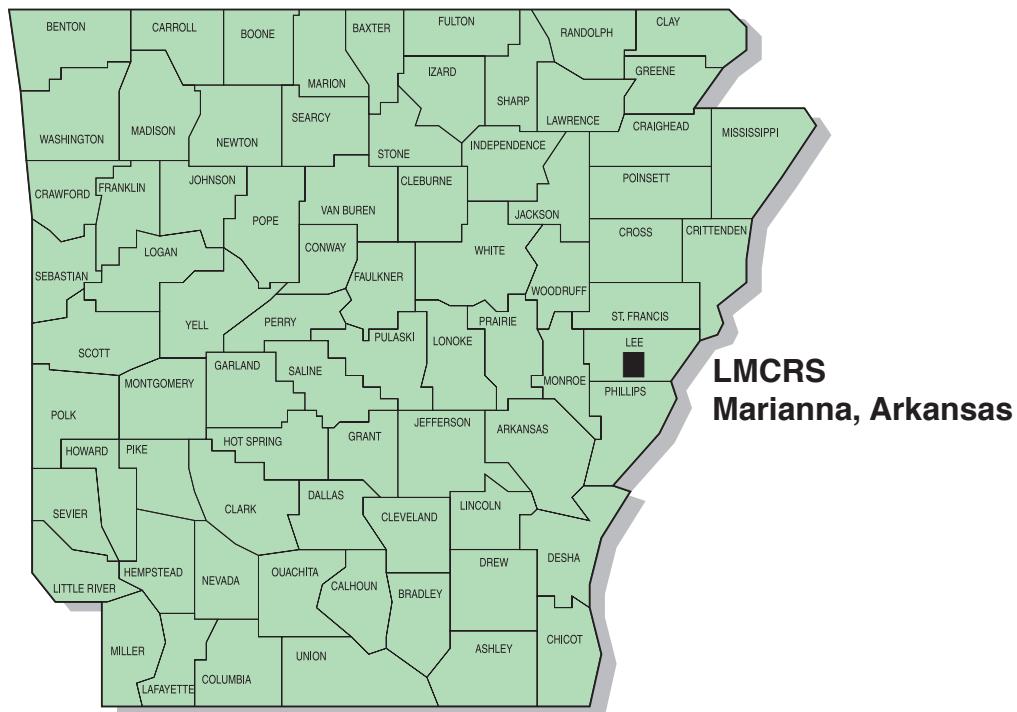
^a Lodging Scale: 1 (<10°), 2 (11–20°), 3 (21–30°), 4 (31–40°), 5 (41–50°), 6 (51–60°), 7 (61–70°), 8 (71–80°), 9 (81–90°).

^b Shattering Scale : 0 (<10%), 1 (11–20%), 2 (21–30%), 3 (31–40%), 4 (41–50%), 5 (51–60%), 6 (61–70%), 7 (71–80%), 8 (81–90%), 9 (91–100%).

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

Marianna: Lon Mann Cotton Research Center (LMCRS)

Irrigated Soybean Varieties and Strains, 2019



Soil Series: Calloway silt loam

Previous Crop: Soybean

Row Spacing: 38 in.

Planting Date: May 16

Irrigation Dates: July 12

Aug. 13

Sept. 6

Fertilizer Application(s): 200 lb/ac 0-0-60 April 23

Herbicide Application(s): Dual Magnum + Valor May 18
Flexstar June 11
Flexstar July 1
Flexstar July 10

Insecticide Application(s): Intrepid Edge Aug. 27
Sept. 4

Harvest Dates: Relative Maturity (3.5–4.4) Oct. 3
Relative Maturity (4.5–4.9) Oct. 3
Relative Maturity (5.0–5.9) Oct. 5

Table 7. Performance of Irrigated Soybean Varieties and Strains, Lon Mann Cotton Research Station, Marianna, Ark., 2019.*

Variety/Experimental Line	2019	2-Year Average ^a	3-Year Average ^b
	(bu./ac)	(bu./ac)	(bu./ac)
Relative Maturity 3.5–4.4			
Non-Xtend Cultivars			
S13-2743C	69.0	68.5	•
Dyna-Gro S42EN89	68.2	•	•
Progeny P4241 E3	67.6	•	•
Go Soy 44GL18	67.3	•	•
S13-3851C	66.3	•	•
Credenz CZ 4222LL	66.2	70.4	67.2
Progeny P4291LR	65.5	•	•
Credenz CZ 3929GTLL	64.6	•	•
Delta Grow 45E23	61.4	•	•
Credenz CZ 3841LL	57.0	62.2	•
Grand Mean	65.3	•	•
LSD (5%)	3.6	•	•
C.V.	3.9	•	•
Xtend Cultivars			
NK S44-C7X	71.9	•	•
Progeny P4444RXS	69.9	71.8	•
Local LS4299XS	69.8	•	•
Progeny P4265RXS	69.4	•	•
Progeny P4255RX	68.7	74.2	•
Local LS4487XS	68.0	•	•
Armor 44-D92	67.6	•	•
AgriGold G4440RX	67.0	71.1	•
Mission A4448X	66.6	•	•
REV 4310X	65.8	•	•
Dyna-Gro S41XS98	65.8	•	•
Asgrow AG 43X0	65.6	•	•
Eagle Seed ES 4460RYX	65.0	67.7	64.6
MorSoy 4447 RXT	64.7	•	•
Armor 42-D27	63.3	70.4	•
NK S39-G2X	63.1	•	•
Credenz CZ 4280X	62.9	•	•
Pioneer P42A96X	62.7	•	•
Local LS3976X	61.4	•	•
Asgrow AG 42X9	60.4	67.1	•
Grand Mean	66.0	•	•
LSD (5%)	3.5	•	•
C.V.	3.8	•	•

Table 7. Performance of Irrigated Soybean Varieties and Strains, Lon Mann Cotton Research Station, Marianna, Ark., 2019,* Continued.

Variety/Experimental Line	2019	2-Year Average ^a	3-Year Average ^b
	(bu./ac)	(bu./ac)	(bu./ac)
Relative Maturity 4.5–4.9			
Non-Xtend Cultivars			
Dyna-Gro S46EN29	71.7	•	•
Go Soy 49G16	71.7	71.8	68.1
Dyna-Gro S49EN79	71.4	•	•
Delta Grow 48E10	71.4	•	•
Progeny P4775 E3S	71.0	•	•
USG 7480ET	70.4	•	•
Go Soy 481E19	70.2	•	•
Local ZS4694E3S	70.1	•	•
Credenz CZ 4649LL	69.9	70.7	•
Local ZS4797E3	69.7	•	•
S14-15138R	69.3	•	•
Progeny P4833 E3	68.8	•	•
Delta Grow 47E19	68.7	•	•
Credenz CZ 4539GTLL	68.6	•	•
Progeny P4682 E3	68.1	•	•
Credenz CZ 4938LL	67.9	65.5	•
Progeny P4891 E3	67.9	•	•
Local ZS4596GLS	67.4	•	•
Delta Grow 49E29	67.3	•	•
Go Soy 46GL18	67.2	•	•
Hefty H48E9	67.2	•	•
Hefty H47E0	67.0	•	•
Progeny P4525 E3	66.8	•	•
USG 7499ET	66.1	•	•
Credenz CZ 4820LL	66.0	64.8	•
Credenz CZ 4918LL	66.0	68.3	•
Hefty H48E0	65.6	•	•
USG 7460ET	65.6	•	•
Delta Grow 47E25	65.4	•	•
Progeny P4565LR	65.4	•	•
Delta Grow 4977LL/STS	65.2	60.6	59.5
Progeny P4710 E3	64.9	•	•
Delta Grow 46E29	64.7	•	•
R16-253	64.5	•	•
Go Soy 482E18	64.3	•	•
Delta Grow 48E39	63.9	•	•
Petrus Seed 4916 GT	63.3	68.8	•
Delta Grow 48E49	63.2	•	•
Pioneer P48A99L	62.9	•	•
DONMARIO 48E73	61.8	•	•
R15-2422	61.5	59.5	•
R16-259	61.2	•	•
Go Soy 48C17S	59.3	•	•
Credenz CZ 4540LL	58.8	61.6	58.5
Grand Mean	66.6	•	•
LSD (5%)	4.5	•	•
C.V.	5.0	•	•
Xtend Cultivars			
USG 7489XT	73.4	•	•
Progeny P4821RX	72.4	•	•
Progeny P4999RX	72.3	•	•
USG 7496XTS	72.1	72.0	67.7
DONMARIO Experimental	72.0	•	•
Delta Grow 48X05	71.6	•	•
USG 7478XTS	71.0	•	•
Pioneer P48A60X	70.9	69.8	•
LG Seeds LGS4931RX	70.6	•	•
Credenz CZ 4770X	70.5	•	•
Dyna-Gro S48XT56	70.3	70.4	65.7
Progeny P4670RX	70.2	•	•
Eagle Seed ES 4840RYX	69.8	70.2	•
Local LS4999X	69.5	•	•
REV 4927X	69.4	70.0	•

Table 7. Performance of Irrigated Soybean Varieties and Strains, Lon Mann Cotton Research Station, Marianna, Ark., 2019,* Continued.

Variety/Experimental Line	2019	2-Year Average ^a	3-Year Average ^b
	(bu./ac)	(bu./ac)	(bu./ac)
Relative Maturity 4.5–4.9			
Xtend Cultivars, Continued			
Local LS4894X	69.3	•	•
Dyna-Gro S49XT39	69.3	68.6	•
Local LS4889XS	69.3	•	•
USG 7480XT	69.2	•	•
Dyna-Gro S45XS66	69.0	73.4	70.2
MorSoy 4846 RXT	68.9	•	•
Mission A4950X	68.6	•	•
Armor X49D67	68.5	•	•
Dyna-Gro S46XS60	68.5	•	•
DONMARIO 47x39	68.3	•	•
Dyna-Gro S49XT70	68.2	•	•
Local LS4565XS	68.1	70.3	•
Credenz CZ 4979X	67.8	•	•
Local LS4795XS	67.8	69.8	•
Asgrow AG 46X6	67.5	69.2	•
Armor X47D18	67.4	•	•
Local LS4798X	67.2	•	•
Armor X46D09	67.1	•	•
AGS GS48X19	67.0	•	•
Dyna-Gro S45XS37	66.9	67.7	•
AgriGold G4579RX	66.8	69.9	•
Armor X48D25	66.7	•	•
Credenz CZ 4869X	66.6	•	•
Delta Grow 46X65	66.6	•	•
Pioneer P46A57BX	66.6	66.2	•
Mission A4618X	66.5	•	•
Taylor EXP 48-80	66.5	•	•
Progeny P4816RX	66.4	69.9	66.5
Progeny P4851RX	66.3	66.3	•
Credenz CZ 4570X	66.2	•	•
LG Seeds LGS4899RX	66.0	•	•
AgriGold G4815RX	65.7	•	•
Armor X47D85	65.6	•	•
Armor X45D51	65.5	•	•
LG Seeds LGS46682RX	65.3	•	•
AGS GS49X19	65.1	•	•
Progeny P4620RXS	65.1	68.5	63.0
Delta Grow 49X15	65.1	•	•
Progeny P4799RXS	65.1	66.6	65.9
Armor X46D30	65.0	•	•
Armor X48D88	64.9	•	•
Hefty H46X05	64.8	•	•
LG Seeds LGC4845RX	64.6	66.7	•
Delta Grow 46X25	64.4	66.1	•
Armor X47D86	64.3	•	•
Asgrow AG 48X9	64.2	66.6	•
REV 4940X	64.2	•	•
Delta Grow 48X45	64.2	67.3	•
NK S49-F5X	64.0	•	•
Dyna-Gro S47XT20	63.6	•	•
Eagle Seed ES 4680RYX	63.6	65.7	65.1
Credenz CZ 4600X	63.5	•	•
REV 4679X	63.4	69.6	•
Asgrow AG 46X0	63.4	•	•
Local LS4677X	63.1	•	•
Local LS4583X	62.8	63.4	•
Asgrow AG 47X9	62.8	65.6	•
MorSoy 4706 RXT	62.3	•	•
Local LS4407X	62.0	68.2	•
AgriGold G4605RX	61.4	64.6	•
USG 7470XT	61.0	•	•
Asgrow AG 49X9	59.7	63.7	•
Taylor EXP 47-90	59.7	•	•
Asgrow AG 47X0	57.8	•	•
Grand Mean	66.6	•	•
LSD (5%)	4.5	•	•
C.V.	5.0	•	•

Table 7. Performance of Irrigated Soybean Varieties and Strains, Lon Mann Cotton Research Station, Marianna, Ark., 2019,* Continued.

Variety/Experimental Line	2019 (bu./ac)	2-Year Average ^a	3-Year Average ^b	
		(bu./ac)	(bu./ac)	
Relative Maturity 5.0–5.9				
Non-Xtend Cultivars				
R16-1445	76.6	•	•	
Go Soy 512E18	72.0	•	•	
Hefty H51E9	71.6	•	•	
R13-818	71.4	69.5	•	
Delta Grow 52E22	69.7	•	•	
Go Soy 50G17	69.6	74.3	•	
Delta Grow 5585RR2	69.6	73.5	•	
R15-1587	68.9	67.2	•	
Progeny P5211 E3	67.7	•	•	
Credenz CZ 5150LL	67.6	65.8	60.8	
R13-13997	65.3	66.4	•	
R13-14635RR	65.0	•	•	
R16-378	64.3	•	•	
R16-39	64.1	•	•	
R16-2547	63.7	•	•	
R16-2546C	62.9	•	•	
R14-1422	61.8	62.0	•	
Grand Mean	67.7	•	•	
LSD (5%)	5.2	•	•	
C.V.	5.5	•	•	
Xtend Cultivars				
Progeny P5016RXS	74.8	72.9	67.1	
Dyna-Gro S56XT99	74.1	73.0	•	
Local LS5087X	72.2	72.5	•	
Progeny P5554RX	70.8	73.9	•	
Eagle Seed ES 5155RYX	70.4	•	•	
Asgrow AG 53X0	69.7	•	•	
Armor 55-D57	69.5	72.5	•	
Progeny P5252RX	69.5	65.6	•	
Progeny P5170RX	69.0	•	•	
AgriGold G5000RX	68.4	70.6	•	
Local LS5386X	67.0	•	•	
Armor 52-D71	66.6	69.2	•	
Local LS5588X	66.6	•	•	
Asgrow AG 52X9	66.2	66.2	•	
Armor 51-D77	65.8	•	•	
Credenz CZ 5299X	65.7	•	•	
Progeny P5688RX	64.9	71.8	•	
Delta Grow 52X05	63.3	•	•	
Delta Grow 54X25	60.8	•	•	
Progeny P5335RX	59.6	•	•	
Dyna-Gro S52XS39	58.7	•	•	
Grand Mean	67.3	•	•	
LSD (5%)	5.1	•	•	
C.V.	5.5	•	•	

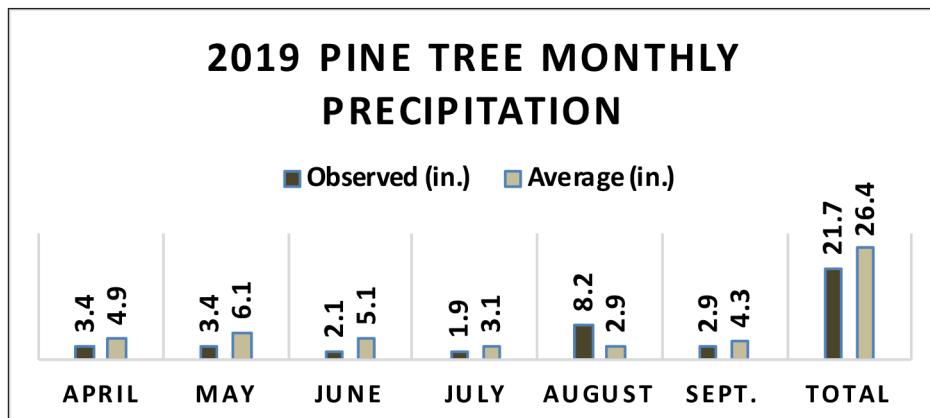
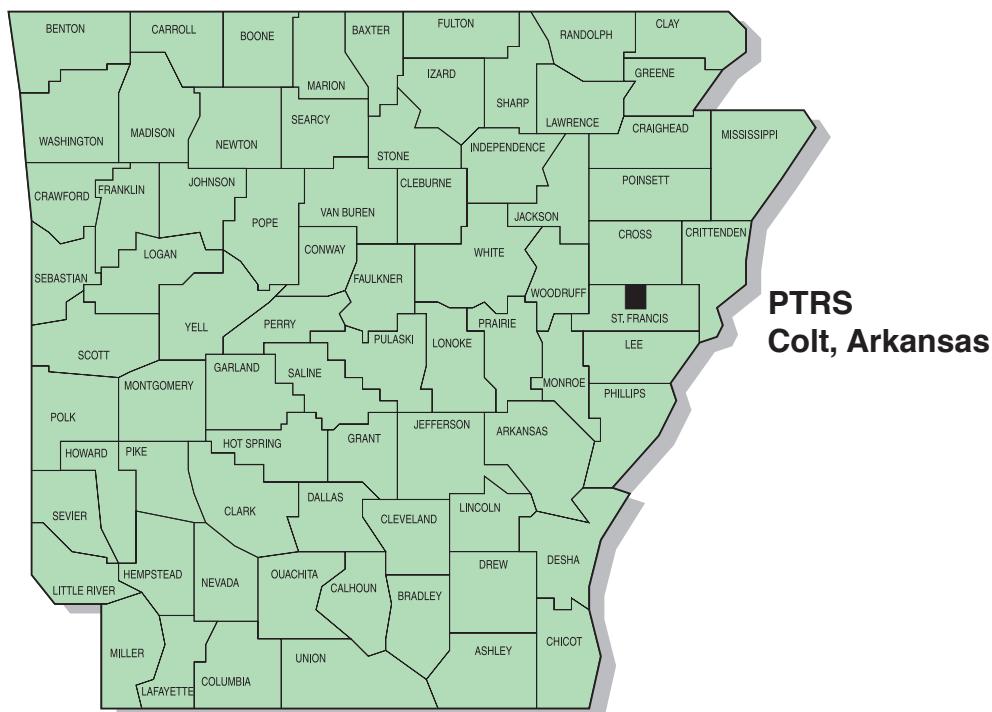
^aAverage yield from 2018 and 2019.

^bAverage yield from 2016, 2018, and 2019.

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

Colt: Pine Tree Research Station (PTRS)

Irrigated Soybean Varieties and Strains, 2019



Soil Series: Calloway silt loam

Previous Crop: Soybean

Row Spacing: 30 in.

Planting Date: May 17

Irrigation Dates: July 8, 26
Aug. 5, 13, 19
Sept. 4, 11

Fertilizer Application(s): 26 lb/ac P +
100 lb/ac K

April 3

Herbicide Application(s): Fierce
Blazer + Basagran +
Select

May 17
May 29

Dual Magnum
Blazer + Basagran
Flexstar + Select
Classic

June 4
June 5
June 18
July 3

Insecticide Application(s): Kendo + Prevathon

Sept. 17

Harvest Dates: Relative Maturity (3.5–4.4)
Relative Maturity (4.5–4.9)
Relative Maturity (5.0–5.9)

Oct. 5
Oct. 8, 9, 10
Oct. 10

Table 8. Performance of Irrigated Soybean Varieties and Strains, Pine Tree Research Station, Colt, Ark., 2019.

Variety/Experimental Line	2019 (bu./ac)	Maturity Date	Lodging ^a Score	Shatter ^b Score	Plant Height (in.)
Relative Maturity 3.5–4.4					
Non-Xtend Cultivars					
Progeny P4241 E3	59.3	Sep-23	1.0	0.0	28
Delta Grow 45E23	57.8	Sep-23	1.0	0.0	31
Progeny P4291LR	57.0	Sep-23	1.0	0.0	28
Credenz CZ 4222LL	54.9	Sep-19	1.0	0.0	28
Dyna-Gro S42EN89	54.2	Sep-23	1.0	0.0	28
S13-3851C	53.5	Sep-27	1.0	0.0	28
Go Soy 44GL18	53.2	Sep-27	1.0	0.0	34
Credenz CZ 3929GTLL	52.1	Sep-27	1.0	0.0	32
S13-2743C	50.7	Sep-23	1.0	0.0	32
Credenz CZ 3841LL	47.1	Sep-23	1.0	0.0	30
Grand Mean	54.0	Sep-23	1.0	0.0	30
LSD (5%)	4.7	•	•	•	•
C.V.	6.2	•	•	•	•
Xtend Cultivars					
Armor 42-D27	60.2	Sep-18	1.0	0.0	30
Progeny P4444RXS	57.7	Sep-27	1.0	0.0	30
Dyna-Gro S41XS98	57.3	Sep-23	1.0	0.0	28
MorSoy 4447 RXT	55.5	Sep-23	1.0	0.0	31
Progeny P4255RX	55.5	Sep-27	1.0	0.0	33
Mission A4448X	55.2	Sep-23	1.0	0.0	30
REV 4310X	53.9	Sep-30	1.0	0.0	34
Credenz CZ 4280X	53.9	Sep-23	1.0	0.0	28
NK S44-C7X	53.4	Oct-03	1.0	0.0	31
Asgrow AG 43X0	52.5	Sep-30	1.0	0.0	34
Eagle Seed ES 4460RYX	51.9	Sep-30	1.0	0.0	32
Pioneer P42A96X	51.7	Oct-04	1.0	0.0	32
Local LS4487XS	50.9	Oct-03	1.0	0.0	30
Asgrow AG 42X9	50.8	Sep-27	1.0	0.0	36
NK S39-G2X	50.7	Sep-25	1.0	0.0	30
Local LS4299XS	50.4	Oct-04	1.0	0.0	32
Progeny P4265RXS	50.3	Oct-04	1.0	0.0	28
Armor 44-D92	50.2	Oct-04	1.0	0.0	33
Local LS3976X	49.4	Sep-23	1.0	0.0	24
AgriGold G4440RX	48.2	Oct-03	1.0	0.0	32
Grand Mean	53.0	Sep-28	1.0	0.0	31
LSD (5%)	4.2	•	•	•	•
C.V.	5.8	•	•	•	•

Table 8. Performance of Irrigated Soybean Varieties and Strains, Pine Tree Research Station, Colt, Ark., 2019, Continued.

Variety/Experimental Line	2019 (bu./ac)	Maturity Date	Lodging ^a Score	Shatter ^b Score	Plant Height (in.)
Relative Maturity 4.5–4.9					
Non-Xtend Cultivars					
Progeny P4682 E3	70.8	Sep-30	1.0	0.0	35
Petrus Seed 4916 GT	69.9	Sep-30	1.0	0.0	32
Hefty H48E0	67.1	Sep-30	1.0	0.0	34
USG 7460ET	66.9	Sep-30	1.0	0.0	35
Delta Grow 47E19	66.7	Sep-30	1.0	0.0	33
USG 7480ET	65.6	Oct-07	1.0	0.0	36
Go Soy 49G16	64.3	Oct-04	1.0	0.0	32
Credenz CZ 4918LL	64.0	Oct-07	1.0	0.0	32
Local ZS4694E3S	63.9	Sep-30	1.0	0.0	34
Progeny P4710 E3	63.7	Sep-30	1.0	0.0	33
Dyna-Gro S46EN29	63.4	Sep-30	1.0	0.0	34
Go Soy 481E19	62.9	Oct-07	1.0	0.0	36
Delta Grow 48E49	62.8	Sep-27	1.0	0.0	33
Pioneer P48A99L	62.6	Oct-04	1.0	0.0	34
Progeny P4833 E3	62.4	Oct-04	1.0	0.0	32
Credenz CZ 4820LL	62.0	Sep-30	1.0	0.0	32
Hefty H47E0	61.9	Sep-27	1.0	0.0	33
Delta Grow 47E25	61.9	Sep-30	1.0	0.0	34
Delta Grow 48E39	61.1	Sep-27	1.0	0.0	34
Local ZS4596GLS	60.5	Oct-02	1.0	0.0	36
Progeny P4775 E3S	60.5	Sep-30	1.0	0.0	36
Delta Grow 48E10	60.4	Oct-07	1.0	0.0	36
Progeny P4891 E3	60.3	Oct-07	1.0	0.0	36
Delta Grow 46E29	60.3	Sep-24	1.0	0.0	34
Local ZS4797E3	59.9	Sep-30	1.0	0.0	34
S14-15138R	59.5	Oct-04	1.0	0.0	33
Credenz CZ 4938LL	57.3	Oct-07	1.0	0.0	37
Hefty H48E9	56.7	Oct-07	1.0	0.0	32
Go Soy 482E18	56.2	Oct-02	1.0	0.0	34
R16-259	55.9	Sep-30	1.0	0.0	33
Go Soy 48C17S	55.8	Sep-30	1.0	0.0	30
DONMARIO 48E73	55.5	Sep-30	1.0	0.0	30
Credenz CZ 4539GTLL	55.5	Sep-30	1.0	0.0	34
Credenz CZ 4649LL	55.2	Sep-30	1.0	0.0	36
Progeny P4565LR	55.1	Sep-30	1.0	0.0	36
Progeny P4525 E3	54.9	Sep-27	1.0	0.0	33
R16-253	54.4	Oct-02	1.0	0.0	35
Dyna-Gro S49EN79	54.1	Sep-30	1.0	0.0	35
Delta Grow 49E29	54.0	Sep-25	1.0	0.0	32
Go Soy 46GL18	53.3	Sep-30	1.0	0.0	36
USG 7499ET	50.8	Sep-30	1.0	0.0	32
R15-2422	50.7	Oct-07	1.0	0.0	38
Delta Grow 4977LL/STS	46.8	Sep-30	1.0	0.0	36
Credenz CZ 4540LL	44.2	Oct-02	1.0	0.0	36
Grand Mean	59.3	Oct-01	1.0	0.0	34
LSD (5%)	5.0	•	•	•	•
C.V.	6.2	•	•	•	•

Table 8. Performance of Irrigated Soybean Varieties and Strains, Pine Tree Research Station, Colt, Ark., 2019, Continued.

Variety/Experimental Line	2019 (bu./ac)	Maturity Date	Lodging ^a Score	Shatter ^b Score	Plant Height (in.)
Relative Maturity 4.5–4.9					
Xtend Cultivars					
USG 7478XTS	61.8	Sep-30	1.0	0.0	33
REV 4679X	61.5	Sep-24	1.0	0.0	32
Local LS4677X	61.3	Oct-04	1.0	0.0	33
Pioneer P48A60X	61.3	Oct-04	1.0	0.0	33
USG 7470XT	60.7	Sep-30	1.0	0.0	36
Eagle Seed ES 4680RYX	59.9	Sep-30	1.0	0.0	32
Asgrow AG 49X9	59.4	Oct-02	1.0	0.0	34
Armor X47D18	59.3	Sep-30	1.0	0.0	36
Asgrow AG 46X6	59.2	Oct-07	1.0	0.0	34
Local LS4795XS	58.8	Sep-30	1.0	0.0	33
Asgrow AG 48X9	58.7	Oct-02	1.0	0.0	35
Asgrow AG 47X0	58.6	Oct-02	1.0	0.0	38
Armor X46D09	58.4	Sep-30	1.0	0.0	33
Hefty H46X0S	58.2	Oct-02	1.0	0.0	32
Local LS4999X	58.0	Oct-04	1.0	0.0	36
Dyna-Gro S45XS37	57.8	Sep-30	1.0	0.0	34
LG Seeds LGS4931RX	57.7	Oct-07	1.0	0.0	36
Asgrow AG 47X9	57.7	Oct-04	1.0	0.0	34
USG 7496XTS	57.6	Oct-07	1.0	0.0	36
REV 4940X	57.5	Sep-30	1.0	0.0	32
Local LS4894X	57.4	Sep-30	1.0	0.0	34
Progeny P4821RX	57.4	Oct-04	1.0	0.0	33
REV 4927X	57.1	Sep-30	1.0	0.0	36
Dyna-Gro S45XS66	57.1	Oct-04	1.0	0.0	36
Dyna-Gro S49XT70	57.0	Oct-07	1.0	0.0	36
Credenz CZ 4979X	56.9	Oct-04	1.0	0.0	35
Delta Grow 48X05	56.9	Oct-04	1.0	0.0	34
AGS GS49X19	56.7	Oct-04	1.0	0.0	36
USG 7480XT	56.6	Sep-30	1.0	0.0	32
Armor X48D88	56.5	Sep-30	1.0	0.0	34
LG Seeds LGS4899RX	56.4	Oct-04	1.0	0.0	33
Mission A4950X	56.3	Oct-04	1.0	0.0	34
NK S49-F5X	56.2	Oct-07	1.0	0.0	32
Armor X47D85	56.2	Sep-30	1.0	0.0	34
Local LS4565XS	55.9	Sep-30	1.0	0.0	35
Credenz CZ 4869X	55.8	Sep-30	1.0	0.0	34
Dyna-Gro S46XS60	55.8	Oct-04	1.0	0.0	33
AGS GS48X19	55.8	Sep-27	1.0	0.0	35
Credenz CZ 4570X	55.8	Oct-04	1.0	0.0	32
Progeny P4799RXS	55.7	Oct-07	1.0	0.0	36
Delta Grow 46X65	55.7	Oct-04	1.0	0.0	35

Table 8. Performance of Irrigated Soybean Varieties and Strains, Pine Tree Research Station, Colt, Ark., 2019, Continued.

Variety/Experimental Line	2019 (bu./ac)	Maturity Date	Lodging ^a Score	Shatter ^b Score	Plant Height (in.)
Relative Maturity 4.5–4.9					
Xtend Cultivars, Continued					
Dyna-Gro S47XT20	55.7	Oct-02	1.0	0.0	34
Dyna-Gro S49XT39	55.5	Sep-30	1.0	0.0	35
Armor X48D25	55.4	Oct-04	1.0	0.0	35
Pioneer P46A57BX	55.3	Sep-26	1.0	0.0	36
Progeny P4620RXS	55.3	Sep-30	1.0	0.0	34
LG Seeds LGS46682RX	55.1	Sep-30	1.0	0.0	33
AgriGold G4815RX	55.0	Sep-30	1.0	0.0	35
USG 7489XT	55.0	Oct-07	1.0	0.0	34
Armor X47D86	54.9	Oct-04	1.0	0.0	32
Delta Grow 49X15	54.8	Oct-04	1.0	0.0	36
Asgrow AG 46X0	54.6	Oct-02	1.0	0.0	34
Dyna-Gro S48XT56	54.5	Oct-07	1.0	0.0	32
AgriGold G4579RX	54.1	Oct-04	1.0	0.0	37
Progeny P4670RX	54.0	Oct-07	1.0	0.0	34
Local LS4889XS	53.8	Oct-07	1.0	0.0	40
DONMARIO 47x39	53.7	Oct-03	1.0	0.0	33
Local LS4407X	53.7	Oct-04	1.0	0.0	32
Credenz CZ 4770X	53.6	Oct-04	1.0	0.0	32
Eagle Seed ES 4840RYX	53.3	Oct-08	1.0	0.0	35
Delta Grow 46X25	53.3	Sep-30	1.0	0.0	33
DONMARIO Experimental	53.2	Oct-07	1.0	0.0	36
Armor X45D51	53.1	Oct-04	1.0	0.0	35
Armor X49D67	53.0	Oct-04	1.0	0.0	35
Progeny P4999RX	52.9	Oct-07	1.0	0.0	35
MorSoy 4846 RXT	52.8	Oct-07	1.0	0.0	34
Progeny P4816RX	52.8	Oct-07	1.0	0.0	32
Mission A4618X	52.4	Oct-04	1.0	0.0	36
Taylor EXP 48-80	52.3	Sep-30	1.0	0.0	38
Progeny P4851RX	52.2	Oct-07	1.0	0.0	35
Delta Grow 48X45	51.9	Oct-07	1.0	0.0	32
AgriGold G4605RX	51.9	Oct-03	1.0	0.0	35
MorSoy 4706 RXT	51.4	Sep-30	1.0	0.0	40
Credenz CZ 4600X	51.2	Sep-27	1.0	0.0	32
Taylor EXP 47-90	51.1	Sep-30	1.0	0.0	40
LG Seeds LGC4845RX	50.0	Oct-07	1.0	0.0	32
Local LS4583X	48.7	Sep-30	1.0	0.0	36
Armor X46D30	48.1	Sep-25	1.0	0.0	32
Local LS4798X	44.6	Oct-07	1.0	0.0	36
Grand Mean	55.5	Oct-02	1.0	0.0	34
LSD (5%)	5.0	•	•	•	•
C.V.	6.7	•	•	•	•

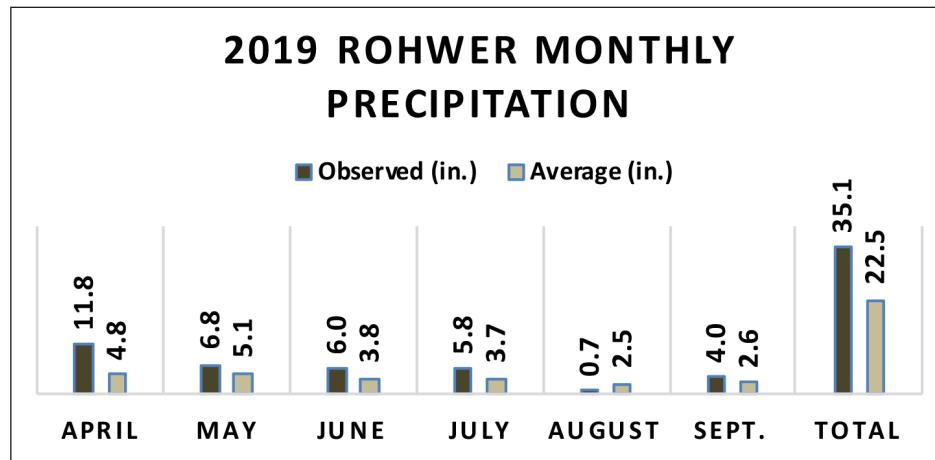
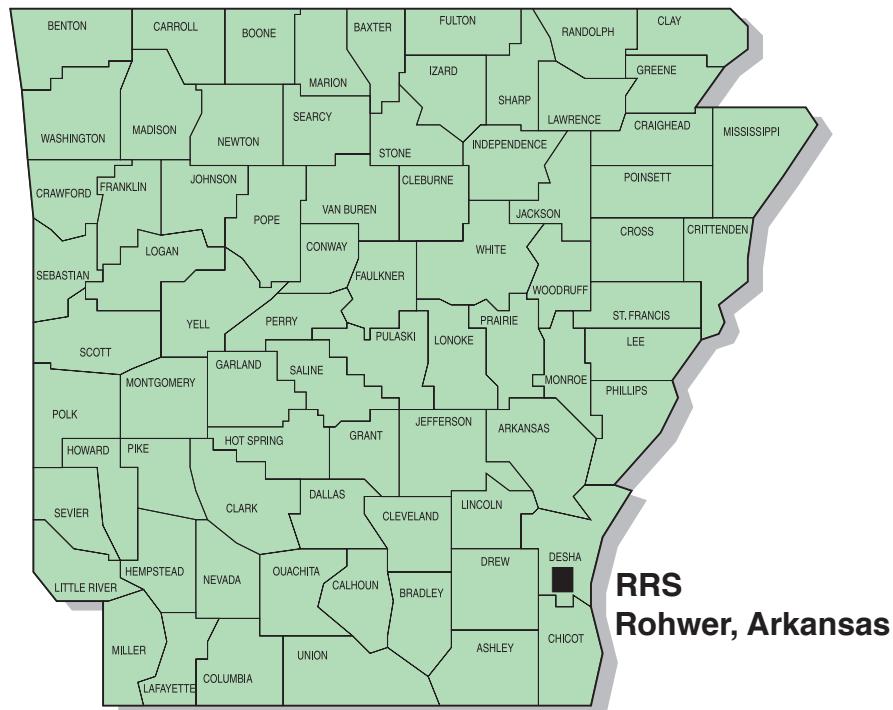
Table 8. Performance of Irrigated Soybean Varieties and Strains, Pine Tree Research Station, Colt, Ark., 2019, Continued.

Variety/Experimental Line	2019 (bu./ac)	Maturity Date	Lodging ^a Score	Shatter ^b Score	Plant Height (in.)
Relative Maturity 5.0–5.9					
Non-Xtend Cultivars					
Go Soy 50G17	68.5	Oct-04	1.0	0.0	28
R15-1587	67.6	Sep-30	1.0	0.0	26
R13-13997	67.1	Oct-09	1.0	0.0	30
R16-2546C	66.4	Sep-30	1.0	0.0	28
Delta Grow 5585RR2	65.7	Oct-08	1.0	0.0	32
R14-1422	64.9	Oct-09	1.0	0.0	30
R16-1445	64.7	Oct-09	1.0	0.0	30
R13-14635RR	64.4	Oct-08	1.0	0.0	40
R16-39	63.0	Sep-30	1.0	0.0	28
R13-818	62.6	Oct-08	1.0	0.0	28
Go Soy 512E18	61.6	Oct-04	1.0	0.0	36
Credenz CZ 5150LL	60.9	Oct-04	1.0	0.0	40
Progeny P5211 E3	59.5	Oct-04	1.0	0.0	36
Delta Grow 52E22	58.6	Oct-07	1.0	0.0	36
R16-378	58.2	Oct-08	1.0	0.0	30
Hefty H51E9	58.0	Oct-04	1.0	0.0	34
R16-2547	57.9	Sep-30	1.0	0.0	26
Grand Mean	62.9	Oct-05	1.0	0.0	32
LSD (5%)	6.0	•	•	•	•
C.V.	6.8	•	•	•	•
Xtend Cultivars					
Progeny P5016RXS	70.4	Oct-07	1.0	0.0	38
Asgrow AG 52X9	68.0	Oct-07	1.0	0.0	38
Progeny P5554RX	67.3	Oct-07	1.0	0.0	28
AgriGold G5000RX	66.8	Oct-09	1.0	0.0	36
Asgrow AG 53X0	65.5	Oct-09	1.0	0.0	38
Local LS5588X	65.2	Oct-07	1.0	0.0	28
Armor 55-D57	65.0	Oct-07	1.0	0.0	30
Dyna-Gro S56XT99	63.8	Oct-07	1.0	0.0	30
Progeny P5688RX	63.1	Oct-04	1.0	0.0	30
Delta Grow 54X25	62.5	Sep-30	1.0	0.0	26
Eagle Seed ES 5155RYX	61.1	Oct-04	1.0	0.0	38
Armor 52-D71	59.9	Oct-09	1.0	0.0	38
Local LS5087X	59.5	Oct-07	1.0	0.0	36
Progeny P5170RX	58.3	Oct-07	1.0	0.0	38
Local LS5386X	58.2	Oct-07	1.0	0.0	36
Progeny P5252RX	58.2	Oct-07	1.0	0.0	36
Dyna-Gro S52XS39	57.6	Sep-30	1.0	0.0	36
Credenz CZ 5299X	55.7	Sep-30	1.0	0.0	36
Delta Grow 52X05	51.7	Oct-04	1.0	0.0	36
Armor 51-D77	51.6	Oct-08	1.0	0.0	36
Progeny P5335RX	45.0	Oct-11	1.0	0.0	36
Grand Mean	60.7	Oct-06	1.0	0.0	34
LSD (5%)	7.1	•	•	•	•
C.V.	8.5	•	•	•	•

^a Lodging Scale: 1 (<10°), 2 (11–20°), 3 (21–30°), 4 (31–40°), 5 (41–50°), 6 (51–60°), 7 (61–70°), 8 (71–80°), 9 (81–90°).^b Shattering Scale: 0 (<10%), 1 (11–20%), 2 (21–30%), 3 (31–40%), 4 (41–50%), 5 (51–60%), 6 (61–70%), 7 (71–80%), 8 (81–90%), 9 (91–100%).

Rohwer: Rohwer Research Station (RRS)

Irrigated Soybean Varieties and Strains, 2019



Soil Series: Desha silt loam

Previous Crop: Grain Sorghum

Row Spacing: 38 in. twin-row

Planting Date: May 15

Irrigation Dates: July 10, 26

Aug. 2, 9, 19

Sept. 3

Fertilizer

Application(s): 150 lb/ac 0-0-60 April 30

Herbicide Application(s): Liberty + Dual Magnum + Valor May 17

Flexstar + Select June 13
Zidua + Classic July 2

Insecticide Application(s): bifenthrin Sept. 3

Harvest Dates: Relative Maturity (3.5–4.4) Sept. 24, 30
Relative Maturity (4.5–4.9) Sept. 24, 30
Relative Maturity (5.0–5.9) Oct. 4

Table 9. Performance of Irrigated Soybean Varieties and Strains, Rohwer Research Station, Rohwer, Ark., 2019.

Variety/Experimental Line	2019	2-Year ^a Average	3-Year ^b Average	Maturity Date	Lodging ^c Score	Shatter ^d Score	Plant Height
	(bu./ac)	(bu./ac)	(bu./ac)				(in.)
Relative Maturity 3.5–4.4							
Non-Xtend Cultivars							
Progeny P4241 E3	80.8	•	•	Sep-15	2.7	0.0	39
Go Soy 44GL18	80.1	•	•	Sep-17	3.3	0.0	45
Dyna-Gro S42EN89	78.4	•	•	Sep-14	3.3	0.0	42
Credenz CZ 3929GTL	77.6	•	•	Sep-16	2.7	0.0	43
Credenz CZ 4222LL	76.8	80.1	72.1	Sep-16	4.0	0.0	42
Delta Grow 45E23	76.6	•	•	Sep-14	2.7	0.0	43
S13-2743C	74.0	75.7	70.9	Sep-14	2.3	0.0	44
S13-3851C	73.1	•	•	Sep-16	3.3	0.0	42
Progeny P4291LR	66.8	•	•	Sep-09	4.3	0.0	39
Credenz CZ 3841LL	65.4	69.2	•	Sep-12	4.7	0.0	34
Grand Mean	74.9	•	•	Sep-14	3.3	0.0	41
LSD (5%)	9.7	•	•	•	0.8	•	•
C.V.	9.1	•	•	•	17.5	•	•
Xtend Cultivars							
NK S44-C7X	74.3	•	•	Sep-17	1.3	0.0	41
MorSoy 4447 RXT	73.3	•	•	Sep-16	2.3	0.0	41
Asgrow AG 43X0	73.2	•	•	Aug-31	2.0	0.0	•
Progeny P4265RXS	72.5	•	•	Sep-11	1.0	0.0	45
AgriGold G4440RX	71.1	69.3	68.0	Sep-16	3.0	0.0	45
Progeny P4444RXS	70.8	64.9	65.9	Sep-14	2.0	0.0	41
Local LS4299XS	70.7	•	•	Sep-17	1.0	0.0	43
Pioneer P42A96X	70.3	•	•	Sep-15	1.7	0.0	41
Mission A4448X	69.8	•	•	Sep-17	1.3	0.0	40
Dyna-Gro S41XS98	68.4	•	•	Sep-09	1.7	0.0	42
REV 4310X	68.1	•	•	Aug-31	2.0	0.0	45
Eagle Seed ES 4460RYX	67.3	62.1	66.3	Sep-17	1.0	0.0	42
Progeny P4255RX	66.8	67.1	63.9	Aug-31	2.0	0.0	•
Local LS4487XS	65.4	•	•	Sep-17	2.3	0.0	44
Armor 44-D92	64.8	•	•	Sep-16	1.0	0.0	43
Armor 42-D27	64.2	72.3	•	Sep-13	1.3	0.0	43
NK S39-G2X	63.6	•	•	Sep-09	2.0	0.0	44
Asgrow AG 42X9	60.9	65.0	•	Sep-16	2.7	0.0	46
Local LS3976X	60.1	•	•	Sep-07	2.3	0.0	40
Credenz CZ 4280X	54.9	•	•	Sep-13	2.3	0.0	40
Grand Mean	67.5	•	•	Sep-14	1.8	0.0	43
LSD (5%)	10.4	•	•	•	0.8	•	•
C.V.	11.2	•	•	•	30.6	•	•

Table 9. Performance of Irrigated Soybean Varieties and Strains, Rohwer Research Station, Rohwer, Ark., 2019, Continued.

Variety/Experimental Line	2019	2-Year ^a Average	3-Year ^b Average	Maturity Date	Lodging ^c Score	Shatter ^d Score	Plant Height
	(bu./ac)	(bu./ac)	(bu./ac)				(in.)
Relative Maturity 4.5–4.9							
Non-Xtend Cultivars							
Progeny P4525 E3	79.6	•	•	Sep-18	3.3	0.0	41
Progeny P4682 E3	79.5	•	•	Sep-20	2.0	0.0	44
Credenz CZ 4938LL	78.6	66.6	•	Sep-22	3.0	0.0	51
Pioneer P48A99L	78.0	•	•	Sep-17	2.0	0.0	44
USG 7460ET	77.6	•	•	Sep-20	2.0	0.0	42
Dyna-Gro S46EN29	76.9	•	•	Sep-19	1.7	0.0	41
Credenz CZ 4539GTL	76.6	•	•	Sep-19	2.7	0.0	47
Hefty H47E0	76.6	•	•	Sep-12	3.0	0.0	38
Local ZS4596GLS	76.5	•	•	Sep-17	3.0	0.0	41
Progeny P4775 E3S	76.3	•	•	Sep-20	2.7	0.0	45
Dyna-Gro S49EN79	76.3	•	•	Sep-20	3.7	0.0	40
Go Soy 481E19	76.3	•	•	Sep-21	2.0	0.0	45
Delta Grow 48E10	76.2	•	•	Sep-22	2.0	0.0	48
Go Soy 46GL18	75.8	•	•	Sep-16	2.3	0.0	43
Credenz CZ 4918LL	75.6	67.7	•	Sep-16	2.7	0.0	42
Progeny P4710 E3	75.5	•	•	Sep-19	2.0	0.0	42
Delta Grow 48E39	75.3	•	•	Sep-21	2.0	0.0	41
Credenz CZ 4649LL	75.0	69.6	•	Sep-21	3.7	0.0	54
Delta Grow 48E49	74.9	•	•	Sep-18	2.0	0.0	42
Local ZS4797E3	74.8	•	•	Sep-19	2.0	0.0	45
USG 7480ET	74.6	•	•	Sep-21	2.0	0.0	37
Progeny P4833 E3	74.3	•	•	Sep-20	1.7	0.0	39
Credenz CZ 4820LL	74.2	69.2	•	Sep-12	3.0	0.0	44
Delta Grow 47E25	73.1	•	•	Sep-19	2.0	0.0	40
Hefty H48E0	72.8	•	•	Sep-18	2.0	0.0	42
Progeny P4565LR	72.7	•	•	Sep-16	2.3	0.0	45
R16-253	72.7	•	•	Sep-19	2.0	0.0	41
Delta Grow 47E19	72.0	•	•	Sep-19	2.0	0.0	45
Progeny P4891 E3	71.0	•	•	Sep-22	2.0	0.0	45
DONMARIO 48E73	70.6	•	•	Sep-19	2.0	0.0	44
Credenz CZ 4540LL	70.5	61.9	61.8	Sep-20	4.3	0.0	44
S14-15138R	69.9	•	•	Sep-17	3.0	0.0	41
Delta Grow 49E29	69.8	•	•	Sep-16	2.3	0.0	40
Delta Grow 46E29	69.8	•	•	Sep-17	2.3	0.0	45
USG 7499ET	69.7	•	•	Sep-19	5.7	0.0	39
R16-259	68.9	•	•	Sep-16	2.0	0.0	43
Delta Grow 4977LL/STS	67.1	62.0	59.4	Sep-21	4.0	0.0	51
Go Soy 482E18	66.9	•	•	Sep-16	4.0	0.0	37
Local ZS4694E3S	66.7	•	•	Sep-18	3.0	0.0	44
Petrus Seed 4916 GT	65.6	61.5	59.3	Sep-22	4.3	0.0	37
R15-2422	62.7	58.7	•	Sep-24	6.7	0.0	48
Hefty H48E9	62.1	•	•	Sep-17	4.3	0.0	38
Go Soy 49G16	61.6	62.4	•	Sep-21	4.0	0.0	37
Go Soy 48C17S	60.8	•	•	Sep-22	2.3	0.0	35
Grand Mean	72.5	•	•	Sep-18	2.8	0.0	43
LSD (5%)	7.2	•	•	•	0.6	•	•
C.V.	7.3	•	•	•	16.9	•	•

Table 9. Performance of Irrigated Soybean Varieties and Strains, Rohwer Research Station, Rohwer, Ark., 2019, Continued.

Variety/Experimental Line	2019 (bu./ac)	2-Year ^a Average (bu./ac)	3-Year ^b Average (bu./ac)	Maturity Date	Lodging ^c Score	Shatter ^d Score	Plant Height (in.)
Relative Maturity 4.5–4.9							
Xtend Cultivars							
Dyna-Gro S48XT56	85.5	73.5	71.7	Sep-21	2.0	0.0	45
Asgrow AG 47X9	84.1	78.9	•	Sep-02	1.3	0.0	46
Asgrow AG 46X6	84.0	80.8	•	Sep-22	3.0	0.0	42
Dyna-Gro S49XT70	82.7	•	•	Sep-19	2.3	0.0	46
USG 7489XT	82.0	•	•	Sep-22	2.0	0.0	43
Asgrow AG 48X9	80.3	73.0	•	Sep-21	1.7	0.0	45
Pioneer P46A57BX	80.3	78.4	•	Sep-17	3.0	0.0	45
Asgrow AG 49X9	80.2	78.3	•	Sep-21	2.0	0.0	40
MorSoy 4846 RXT	80.2	•	•	Sep-21	2.0	0.0	43
Credenz CZ 4770X	79.9	•	•	Sep-22	3.7	0.0	42
Pioneer P48A60X	79.8	79.5	75.4	Sep-19	3.3	0.0	42
Progeny P4999RX	78.7	•	•	Sep-22	3.3	0.0	47
Armor X48D25	78.5	•	•	Sep-17	2.3	0.0	43
Armor X49D67	78.3	•	•	Sep-21	2.0	0.0	49
AGS GS49X19	78.1	•	•	Sep-23	4.7	0.0	45
Progeny P4821RX	77.9	•	•	Sep-22	3.0	0.0	41
AgriGold G4579RX	77.9	73.3	•	Sep-20	2.3	0.0	46
Asgrow AG 46X0	77.8	•	•	Sep-18	2.0	0.0	43
Progeny P4816RX	77.2	74.0	73.1	Sep-22	1.3	0.0	45
Local LS4999X	77.0	•	•	Sep-21	2.3	0.0	47
Armor X46D30	76.5	•	•	Sep-20	2.0	0.0	42
Dyna-Gro S46XS60	76.4	•	•	Sep-17	2.0	0.0	43
Dyna-Gro S45XS37	75.9	69.1	71.3	Sep-20	4.3	0.0	40
Credenz CZ 4600X	75.6	•	•	Sep-18	2.0	0.0	45
Eagle Seed ES 4840RYX	75.6	65.0	•	Sep-21	3.0	0.0	44
Credenz CZ 4979X	75.6	•	•	Sep-23	4.3	0.0	42
Dyna-Gro S49XT39	75.5	68.4	•	Sep-23	3.3	0.0	44
Hefty H46X0S	75.1	•	•	Sep-19	2.0	0.0	41
Mission A4618X	74.9	•	•	Sep-19	2.7	0.0	47
Taylor EXP 48-80	74.8	•	•	Sep-17	2.7	0.0	48
Armor X47D85	74.8	•	•	Sep-16	1.7	0.0	43
Dyna-Gro S47XT20	74.8	•	•	Sep-18	3.3	0.0	45
USG 7478XTS	74.6	•	•	Sep-21	2.0	0.0	44
Local LS4795XS	74.1	•	•	Sep-17	2.0	0.0	43
Armor X47D18	73.8	•	•	Sep-16	2.3	0.0	46
Progeny P4799RXS	73.7	71.5	70.7	Sep-21	2.0	0.0	48

Table 9. Performance of Irrigated Soybean Varieties and Strains, Rohwer Research Station, Rohwer, Ark., 2019, Continued.

Variety/Experimental Line	2019	2-Year ^a Average	3-Year ^b Average	Maturity Date	Lodging ^c Score	Shatter ^d Score	Plant Height
	(bu./ac)	(bu./ac)	(bu./ac)				(in.)
Relative Maturity 4.5–4.9							
Xtend Cultivars, Continued							
Local LS4565XS	73.6	72.4	•	Sep-19	4.3	0.0	45
AgriGold G4815RX	73.2	•	•	Sep-17	2.0	0.0	47
Mission A4950X	73.1	•	•	Sep-21	3.3	0.0	47
Armor X46D09	73.0	•	•	Sep-18	2.0	0.0	45
REV 4940X	73.0	•	•	Sep-20	3.3	0.0	46
Local LS4407X	72.4	•	•	Sep-21	4.7	0.0	45
Progeny P4670RX	72.2	•	•	Sep-22	3.7	0.0	45
Credenz CZ 4869X	72.2	•	•	Sep-22	3.3	0.0	43
Armor X45D51	71.9	•	•	Sep-18	2.7	0.0	44
Delta Grow 48X45	71.6	70.4	•	Sep-21	1.3	0.0	45
Credenz CZ 4570X	71.2	•	•	Sep-16	4.3	0.0	42
Delta Grow 48X05	71.1	•	•	Sep-21	4.0	0.0	45
USG 7496XTS	70.7	69.7	68.2	Sep-22	2.7	0.0	50
DONMARIO 47x39	70.5	•	•	Sep-22	4.3	0.0	44
USG 7470XT	70.5	•	•	Sep-20	2.7	0.0	50
REV 4679X	70.2	65.7	•	Sep-17	4.7	0.0	44
LG Seeds LGC4845RX	70.1	71.6	•	Sep-21	1.0	0.0	44
NK S49-F5X	70.0	•	•	Sep-18	2.3	0.0	40
LG Seeds LGS46682RX	69.8	•	•	Sep-17	2.0	0.0	42
Progeny P4620RXS	69.4	71.0	71.4	Sep-19	3.3	0.0	45
USG 7480XT	69.1	•	•	Sep-21	4.0	0.0	44
Delta Grow 46X25	69.1	65.6	•	Sep-18	2.0	0.0	43
LG Seeds LGS4899RX	69.1	•	•	Sep-18	1.3	0.0	43
Local LS4677X	68.8	70.5	•	Sep-17	4.3	0.0	44
AGS GS48X19	68.6	•	•	Sep-14	3.3	0.0	45
Eagle Seed ES 4680RYX	68.6	67.1	70.0	Sep-19	1.7	0.0	42
Armor X48D88	68.6	•	•	Sep-13	3.3	0.0	43
LG Seeds LGS4931RX	68.4	•	•	Sep-22	2.0	0.0	43
Armor X47D86	67.7	•	•	Sep-21	2.7	0.0	43
Delta Grow 46X65	67.1	•	•	Sep-18	2.0	0.0	43
Local LS4894X	66.9	•	•	Sep-22	4.3	0.0	44
Local LS4583X	66.4	61.8	•	Sep-16	4.0	0.0	43
Asgrow AG 47X0	65.3	•	•	Sep-19	1.7	0.0	46
DONMARIO Experimental	65.0	•	•	Sep-21	3.0	0.0	48
Delta Grow 49X15	64.5	•	•	Sep-23	3.7	0.0	51
Dyna-Gro S45XS66	64.0	64.5	66.2	Sep-17	6.0	0.0	42
REV 4927X	62.5	60.9	62.0	Sep-20	5.7	0.0	48
Local LS4798X	62.4	•	•	Sep-22	5.0	0.0	44
Taylor EXP 47-90	61.0	•	•	Sep-14	3.3	0.0	50
AgriGold G4605RX	60.5	61.3	•	Sep-19	5.3	0.0	50
Progeny P4851RX	59.5	63.1	63.5	Sep-22	7.0	0.0	45
Local LS4889XS	58.0	62.1	•	Sep-20	7.0	0.0	47
MorSoy 4706 RXT	56.6	•	•	Sep-07	2.7	0.0	49
Grand Mean	72.5	•	•	Sep-19	3.0	0.0	45
LSD (5%)	7.9	•	•	•	1.1	•	•
C.V.	8.0	•	•	•	27.0	•	•

Table 9. Performance of Irrigated Soybean Varieties and Strains, Rohwer Research Station, Rohwer, Ark., 2019, Continued.

Variety/Experimental Line	2019 (bu./ac)	2-Year ^a Average (bu./ac)	3-Year ^b Average (bu./ac)	Maturity Date	Lodging ^c Score	Shatter ^d Score	Plant Height (in.)
Relative Maturity 5.0–5.9							
Non-Xtend Cultivars							
Credenz CZ 5150LL	80.0	70.4	68.1	Sep-21	4.3	0.0	48
Progeny P5211 E3	72.3	•	•	Sep-12	4.7	0.0	43
Delta Grow 52E22	67.6	•	•	Sep-18	4.0	0.0	41
Go Soy 512E18	66.3	•	•	Sep-18	3.3	0.0	41
R15-1587	66.3	64.1	•	Sep-25	2.3	0.0	32
Delta Grow 5585RR2	65.3	67.2	•	Sep-25	2.7	0.0	37
R13-14635RR	64.8	•	•	Sep-27	2.0	0.0	50
R13-13997	64.6	59.4	59.7	Sep-27	4.0	0.0	36
Hefty H51E9	64.1	•	•	Sep-17	4.0	0.0	43
R14-1422	62.1	57.8	•	Sep-25	5.3	0.0	37
R16-1445	60.4	•	•	Sep-27	5.7	0.0	39
R16-2546C	60.1	•	•	Sep-25	3.0	0.0	35
R16-39	59.9	•	•	Sep-21	2.0	0.0	35
R16-378	57.7	•	•	Sep-27	4.7	0.0	39
R16-2547	55.6	•	•	Sep-21	3.7	0.0	33
R13-818	54.1	51.9	•	Sep-24	5.3	0.0	33
Go Soy 50G17	53.3	53.7	•	Sep-21	5.3	0.0	33
Grand Mean	63.2	•	•	Sep-22	3.9	0.0	39
LSD (5%)	7.3	•	•	•	1.3	•	•
C.V.	8.4	•	•	•	23.3	•	•
Xtend Cultivars							
Dyna-Gro S52XS39	73.3	•	•	Sep-26	4.0	0.0	50
Asgrow AG 53X0	73.2	•	•	Sep-25	3.0	0.0	50
Eagle Seed ES 5155RYX	73.1	•	•	Sep-24	3.7	0.0	49
AgriGold G5000RX	72.4	64.9	64.6	Sep-26	2.3	0.0	49
Local LS5386X	72.2	•	•	Sep-26	4.0	0.0	49
Progeny P5170RX	71.6	•	•	Sep-22	3.7	0.0	50
Asgrow AG 52X9	71.5	68.0	•	Sep-22	2.0	0.0	50
Progeny P5016RXS	71.4	68.7	70.1	Sep-26	2.0	0.0	47
Local LS5087X	71.2	71.6	•	Sep-26	5.0	0.0	50
Armor 52-D71	69.6	70.1	•	Sep-26	3.7	0.0	47
Local LS5588X	68.5	•	•	Sep-28	2.3	0.0	35
Delta Grow 52X05	67.9	•	•	Sep-26	3.7	0.0	51
Credenz CZ 5299X	67.3	•	•	Sep-27	3.7	0.0	49
Armor 51-D77	67.3	•	•	Sep-28	5.0	0.0	50
Progeny P5554RX	67.3	67.8	•	Sep-29	2.3	0.0	38
Armor 55-D57	66.5	72.3	•	Oct-01	2.3	0.0	37
Dyna-Gro S56XT99	65.9	71.6	•	Oct-01	3.0	0.0	38
Progeny P5252RX	65.3	65.1	•	Sep-28	5.3	0.0	50
Delta Grow 54X25	64.7	•	•	Sep-28	3.0	0.0	39
Progeny P5688RX	61.0	63.4	62.0	Sep-29	2.0	0.0	38
Progeny P5335RX	58.6	•	•	Sep-29	3.7	0.0	48
Grand Mean	68.6	•	•	Sep-26	3.3	0.0	46
LSD (5%)	8.0	•	•	•	0.7	•	•
C.V.	8.5	•	•	•	15.8	•	•

^a Average yield from 2018 and 2019.

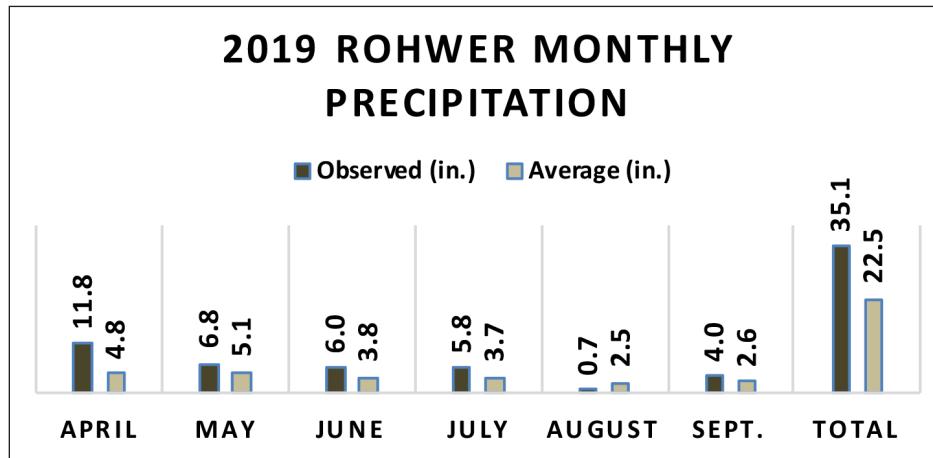
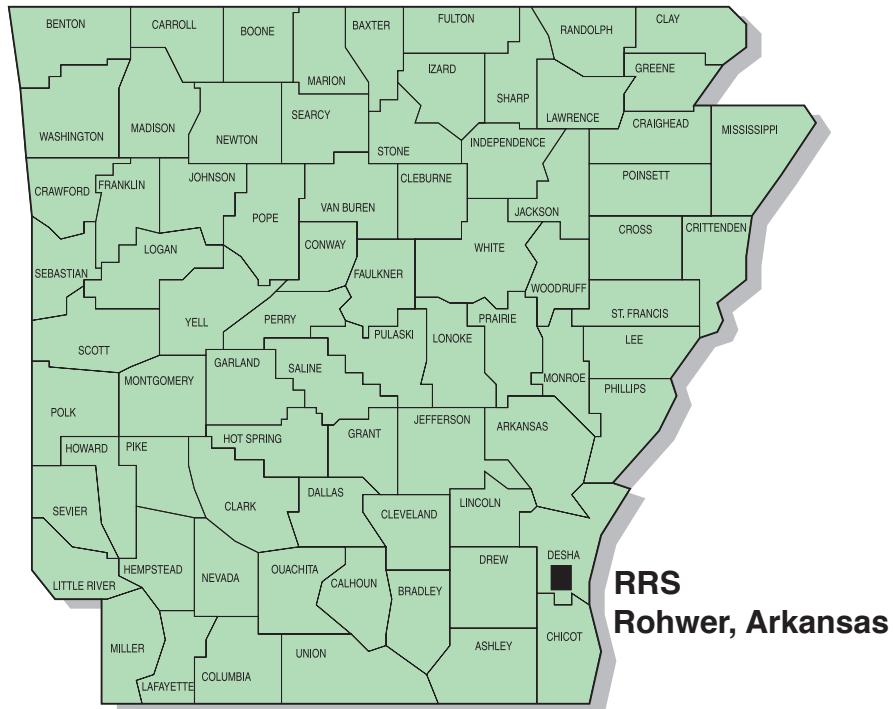
^b Average yield from 2017, 2018, 2019.

^c Lodging scale: 1 (<10°), 2 (11–20°), 3 (21–30°), 4 (31–40°), 5 (41–50°), 6 (51–60°), 7 (61–70°), 8 (71–80°), 9 (81–90°).

^d Shattering scale: 0 (<10%), 1 (11–20%), 2 (21–30%), 3 (31–40%), 4 (41–50%), 5 (51–60%), 6 (61–70%), 7 (71–80%), 8 (81–90%), 9 (91–100%).

Rohwer: Rohwer Research Station (RRS)

Irrigated, Late-Planted Soybean Varieties and Strains, 2019



Soil Series: Desha silt loam

Previous Crop: Corn

Row Spacing: 38 in. twin-row

Planting Date: May 29

Irrigation Dates: July 10, 26

Aug. 2, 9, 19

Sept. 3

Fertilizer

Application(s): 150 lb/ac 0-0-60 April 30

Herbicide Application(s):

Liberty + Dual Magnum + Valor

Select

Storm + Select

May 30

June 5

July 9

Insecticide Application(s):

bifenthrin

Sept. 3

Harvest Dates: Relative Maturity (3.5–4.4)

Sept. 30, Oct. 1

Relative Maturity (4.5–4.9)

Sept. 30, Oct. 1

Relative Maturity (5.0–5.9)

Oct. 4

Table 10. Performance of Irrigated, Late-Planted Varieties and Strains, Rohwer Research Station, Rohwer, Ark., 2019.

Variety/Experimental Line	2019 (bu./ac)	2-Year ^a Average (bu./ac)	Maturity Date	Lodging ^b Score	Shatter ^c Score	Plant Height (in.)
Relative Maturity 3.5–4.4						
Non-Xtend Cultivars						
Credenz CZ 3929GTLL	66.1	•	Sep-18	4.0	0.0	41
Credenz CZ 4222LL	63.6	68.0	Sep-15	4.0	0.0	37
S13-2743C	59.8	55.7	Sep-16	4.3	0.0	42
Credenz CZ 3841LL	57.6	63.4	Sep-16	5.7	0.0	41
Progeny P4291LR	55.8	•	Sep-13	5.0	0.0	37
Go Soy 44GL18	55.5	•	Sep-18	5.7	0.0	42
Delta Grow 45E23	55.1	•	Sep-17	3.0	0.0	36
S13-3851C	53.7	•	Sep-18	3.7	0.0	37
Dyna-Gro S42EN89	52.4	•	Sep-15	5.0	0.0	42
Progeny P4241 E3	50.9	•	Sep-16	5.0	0.0	39
Grand Mean	57.0	•	Sep-16	4.5	0.0	39
LSD (5%)	6.6	•	•	1.7	•	•
C.V.	8.2	•	•	26.8	•	•

Table 10. Performance of Irrigated, Late-Planted Varieties and Strains, Rohwer Research Station, Rohwer, Ark., 2019, Continued.

Variety/Experimental Line	2019	2-Year ^a Average	Maturity Date	Lodging ^b Score	Shatter ^c Score	Plant Height
	(bu./ac)	(bu./ac)				(in.)
Relative Maturity 4.5–4.9						
Non-Xtend Cultivars						
Progeny P4565LR	72.0	•	Sep-24	3.5	0.0	43
Progeny P4833 E3	68.1	•	Sep-22	4.0	0.0	40
Local ZS4797E3	66.8	•	Sep-24	3.5	0.0	43
Go Soy 481E19	66.2	•	Sep-29	2.0	0.0	44
Progeny P4710 E3	66.2	•	Sep-27	3.5	0.0	39
Credenz CZ 4539GTLL	65.6	•	Sep-25	4.0	0.0	44
Progeny P4775 E3S	65.3	•	Sep-23	3.0	0.0	46
Local ZS4694E3S	65.2	•	Sep-20	3.5	0.0	44
Pioneer P48A99L	64.3	•	Sep-19	5.0	0.0	44
USG 7480ET	64.0	•	Sep-28	2.0	0.0	43
Hefty H48E0	63.5	•	Sep-22	3.5	0.0	40
Delta Grow 48E10	63.3	•	Sep-30	2.5	0.0	43
Progeny P4682 E3	63.3	•	Sep-27	3.0	0.0	43
Go Soy 49G16	63.1	58.2	Sep-24	4.5	0.0	37
Dyna-Gro S46EN29	62.8	•	Sep-22	3.5	0.0	41
Go Soy 46GL18	62.8	•	Sep-22	3.0	0.0	44
R16-253	61.7	•	Sep-25	2.5	0.0	41
USG 7460ET	61.5	•	Sep-24	3.5	0.0	40
Progeny P4891 E3	61.1	•	Sep-29	2.0	0.0	42
Delta Grow 48E39	60.9	•	Sep-20	3.5	0.0	43
Petrus Seed 4916 GT	60.8	56.3	Sep-26	5.5	0.0	39
DONMARIO 48E73	60.4	•	Sep-24	2.0	0.0	40
Delta Grow 47E19	60.4	•	Sep-21	2.5	0.0	39
Credenz CZ 4918LL	60.0	61.4	Sep-18	4.5	0.0	40
Local ZS4596GLS	59.1	•	Sep-22	4.0	0.0	43
Credenz CZ 4820LL	58.8	64.2	Sep-21	3.5	0.0	40
Dyna-Gro S49EN79	58.3	•	Sep-26	7.0	0.0	41
Delta Grow 49E29	58.2	•	Sep-22	3.0	0.0	41
Delta Grow 47E25	58.0	•	Sep-28	2.5	0.0	40
Hefty H48E9	57.9	•	Sep-28	7.5	0.0	44
Credenz CZ 4938LL	57.8	61.4	Sep-28	5.5	0.0	43
Progeny P4525 E3	57.5	•	Sep-23	5.5	0.0	40
USG 7499ET	57.1	•	Sep-27	7.0	0.0	39
Delta Grow 48E49	57.1	•	Sep-21	3.0	0.0	42
R16-259	57.1	•	Sep-21	4.5	0.0	42
Delta Grow 4977LL/STS	56.5	55.5	Sep-25	6.0	0.0	44
Credenz CZ 4540LL	56.5	55.4	Sep-22	5.5	0.0	50
Go Soy 482E18	55.6	•	Sep-26	7.5	0.0	42
Credenz CZ 4649LL	55.1	58.7	Sep-26	3.5	0.0	45
Delta Grow 46E29	53.9	•	Sep-19	3.5	0.0	37
Go Soy 48C17S	52.3	•	Sep-26	4.5	0.0	36
Hefty H47E0	51.9	•	Sep-14	5.0	0.0	38
R15-2422	46.8	45.7	Sep-25	7.0	0.0	45
S14-15138R	46.0	•	Sep-25	4.5	0.0	37
Grand Mean	60.0	•	Sep-23	4.1	0.0	42
LSD (5%)	8.3	•	•	1.0	•	•
C.V.	8.2	•	•	14.3	•	•

Table 10. Performance of Irrigated, Late-Planted Varieties and Strains, Rohwer Research Station, Rohwer, Ark., 2019, Continued.

Variety/Experimental Line	2019 (bu./ac)	2-Year ^a Average (bu./ac)	Maturity Date	Lodging ^b Score	Shatter ^c Score	Plant Height (in.)
Relative Maturity 4.5–4.9						
Xtend Cultivars						
Asgrow AG 46X0	73.5	•	Sep-23	3.0	0.0	47
Progeny P4670RX	73.0	•	Sep-26	4.0	0.0	38
AGS GS49X19	72.7	•	Sep-28	4.5	0.0	40
Taylor EXP 48-80	70.1	•	Sep-21	3.0	0.0	47
Pioneer P46A57BX	69.1	66.3	Sep-20	3.0	0.0	42
Dyna-Gro S45XS37	68.7	69.0	Sep-21	4.0	0.0	40
NK S49-F5X	68.7	•	Sep-22	2.5	0.0	39
USG 7480XT	67.7	•	Sep-28	4.5	0.0	40
LG Seeds LGS4899RX	67.5	•	Sep-21	2.0	0.0	41
Progeny P4821RX	67.5	•	Sep-27	4.0	0.0	41
Progeny P4799RXS	67.4	62.6	Sep-29	3.0	0.0	46
AgriGold G4815RX	67.2	•	Sep-21	3.0	0.0	41
Mission A4618X	66.9	•	Sep-25	3.5	0.0	39
Armor X49D67	66.8	•	Sep-26	2.5	0.0	40
Delta Grow 48X45	66.6	68.2	Sep-26	2.0	0.0	40
AGS GS48X19	66.6	•	Sep-25	4.0	0.0	44
Armor X48D25	66.4	•	Sep-26	3.0	0.0	41
Pioneer P48A60X	66.4	68.8	Sep-21	3.0	0.0	37
Dyna-Gro S49XT70	66.3	•	Sep-25	2.0	0.0	43
AgriGold G4605RX	66.0	63.8	Sep-23	4.5	0.0	47
Armor X48D88	66.0	•	Sep-24	3.5	0.0	40
AgriGold G4579RX	65.9	65.8	Sep-27	3.0	0.0	45
Credenz CZ 4979X	65.8	•	Sep-28	3.5	0.0	44
MorSoy 4846 RXT	65.6	•	Sep-24	2.0	0.0	40
Credenz CZ 4770X	65.5	•	Sep-27	4.0	0.0	40
Dyna-Gro S47XT20	65.5	•	Sep-26	2.5	0.0	42
Armor X47D85	65.1	•	Sep-21	2.0	0.0	40
Armor X47D18	64.6	•	Sep-21	2.5	0.0	39
Armor X46D30	64.0	•	Sep-22	3.5	0.0	41
Eagle Seed ES 4840RYX	63.8	64.4	Sep-27	3.0	0.0	41
Dyna-Gro S46XS60	63.6	•	Sep-22	2.0	0.0	36
USG 7478XTS	63.4	•	Sep-23	2.5	0.0	42
LG Seeds LGC4845RX	63.4	70.0	Sep-27	2.0	0.0	39
USG 7489XT	63.2	•	Sep-26	2.5	0.0	40
Progeny P4620RXS	62.8	63.1	Sep-19	3.0	0.0	43
Taylor EXP 47-90	62.8	•	Sep-21	3.0	0.0	45
Eagle Seed ES 4680RYX	62.7	62.5	Sep-22	2.5	0.0	41
Dyna-Gro S48XT56	62.6	65.0	Sep-26	2.0	0.0	36
Asgrow AG 48X9	62.5	68.7	Sep-24	2.5	0.0	40
Asgrow AG 47X9	62.5	64.9	Sep-28	2.0	0.0	38
Local LS4999X	62.4	•	Sep-26	3.0	0.0	41

Table 10. Performance of Irrigated, Late-Planted Varieties and Strains, Rohwer Research Station, Rohwer, Ark., 2019, Continued.

Variety/Experimental Line	2019 (bu./ac)	2-Year ^a Average (bu./ac)	Maturity Date	Lodging ^b Score	Shatter ^c Score	Plant Height (in.)
Relative Maturity 4.5–4.9						
Xtend Cultivars, Continued						
LG Seeds LG4931RX	62.4	•	Sep-28	2.5	0.0	44
MorSoy 4706 RXT	62.3	•	Sep-21	3.0	0.0	44
REV 4927X	61.9	58.6	Sep-28	4.5	0.0	42
Dyna-Gro S45XS66	61.9	61.2	Sep-23	6.5	0.0	45
Dyna-Gro S49XT39	61.5	58.8	Sep-29	4.0	0.0	40
Local LS4795XS	61.5	•	Sep-24	3.0	0.0	40
Credenz CZ 4869X	61.3	•	Sep-24	3.5	0.0	45
REV 4679X	61.1	65.3	Sep-21	3.0	0.0	35
Armor X47D86	60.7	•	Sep-26	2.0	0.0	36
Local LS4677X	60.2	68.9	Sep-26	2.5	0.0	40
REV 4940X	60.0	•	Sep-24	5.5	0.0	44
Armor X46D09	60.0	•	Sep-21	2.5	0.0	44
Armor X45D51	60.0	•	Sep-21	2.0	0.0	42
USG 7470XT	59.9	•	Sep-21	2.5	0.0	44
Asgrow AG 47X0	59.6	•	Sep-26	2.5	0.0	41
Local LS4798X	59.1	•	Sep-30	5.5	0.0	40
Delta Grow 46X25	58.3	60.7	Sep-23	3.0	0.0	39
Asgrow AG 49X9	58.2	66.1	Sep-25	4.0	0.0	39
DONMARIO 47x39	58.2	•	Sep-28	5.5	0.0	39
Delta Grow 48X05	57.7	•	Sep-26	4.5	0.0	38
Progeny P4816RX	57.6	63.7	Sep-25	2.0	0.0	33
Asgrow AG 46X6	57.6	64.3	Sep-22	3.5	0.0	39
Mission A4950X	57.4	•	Sep-24	3.0	0.0	43
LG Seeds LGS46682RX	57.3	•	Sep-19	2.0	0.0	40
Progeny P4851RX	56.6	57.2	Sep-25	6.5	0.0	44
Local LS4583X	56.6	59.6	Sep-22	3.5	0.0	42
Delta Grow 46X65	56.4	•	Sep-25	2.0	0.0	36
Local LS4565XS	56.1	63.7	Sep-23	5.0	0.0	39
USG 7496XTS	56.0	62.8	Sep-28	3.0	0.0	40
Local LS4894X	55.8	•	Sep-28	4.5	0.0	42
Local LS4407X	55.3	•	Sep-20	3.0	0.0	40
Credenz CZ 4600X	54.4	•	Sep-24	2.5	0.0	40
Hefty H46X0S	54.0	•	Sep-24	2.5	0.0	37
Progeny P4999RX	52.7	•	Sep-22	3.5	0.0	37
Credenz CZ 4570X	51.5	•	Sep-21	3.0	0.0	36
Local LS4889XS	51.2	56.1	Sep-29	3.5	0.0	45
DONMARIO Experimental	50.6	•	Sep-23	2.5	0.0	42
Delta Grow 49X15	48.1	•	Sep-30	4.5	0.0	44
Grand Mean	62.0	•	Sep-24	3.2	0.0	41
LSD (5%)	10.6	•	•	1.3	•	•
C.V.	10.3	•	•	23.7	•	•

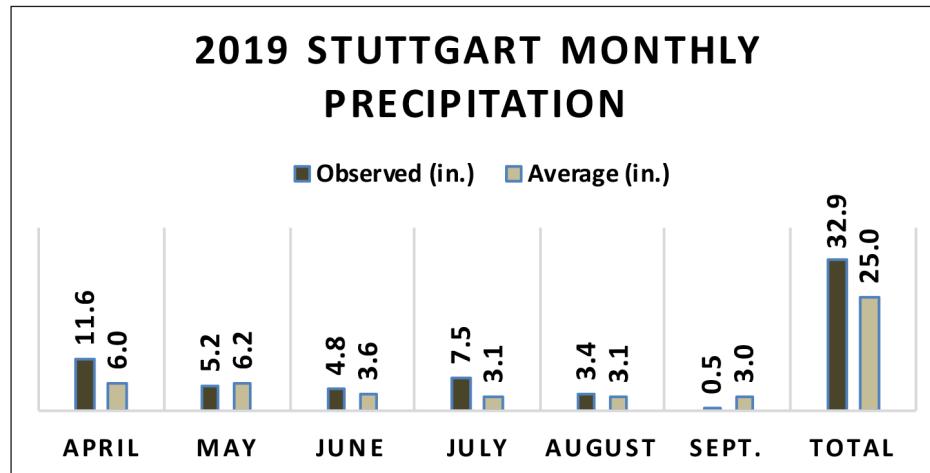
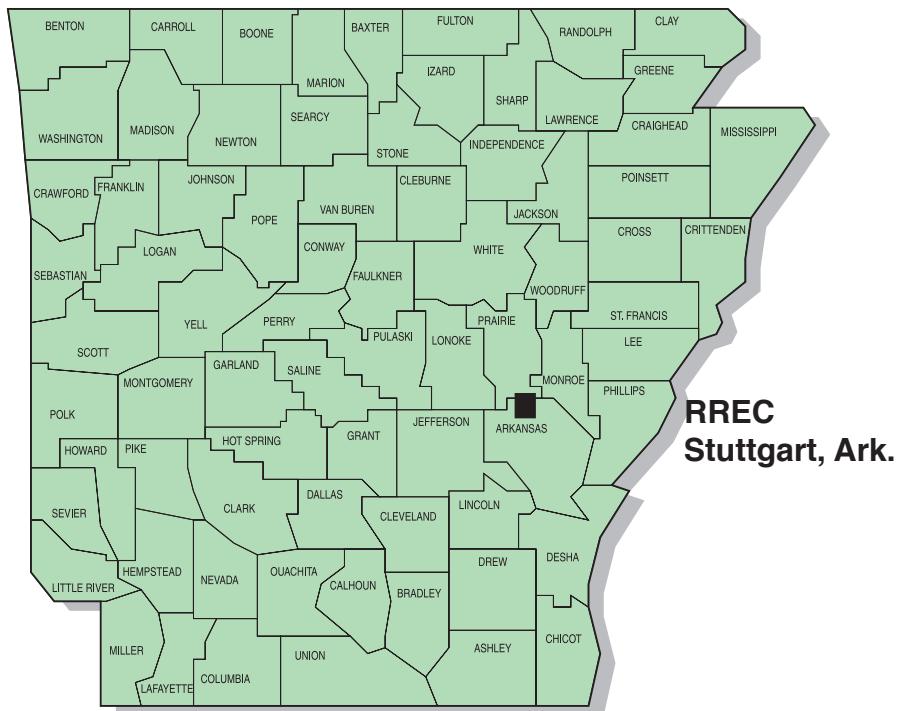
Table 10. Performance of Irrigated, Late-Planted Varieties and Strains, Rohwer Research Station, Rohwer, Ark., 2019, Continued.

Variety/Experimental Line	2019 (bu./ac)	2-Year ^a Average (bu./ac)	Maturity Date	Lodging ^b Score	Shatter ^c Score	Plant Height (in.)
Relative Maturity 5.0–5.9						
Non-Xtend Cultivars						
R16-39	71.5	•	Sep-28	3.5	0.0	35
R16-1445	69.6	•	Sep-30	5.5	0.0	42
R15-1587	68.1	62.8	Oct-01	4.0	0.0	35
Go Soy 50G17	64.3	57.7	Oct-01	5.5	0.0	35
Delta Grow 52E22	63.4	•	Oct-01	6.5	0.0	40
Delta Grow 5585RR2	63.2	60.9	Oct-01	3.5	0.0	42
R16-378	63.1	•	Oct-02	4.5	0.0	38
R13-14635RR	61.3	•	Oct-02	3.0	0.0	49
R16-2547	60.6	•	Sep-25	5.0	0.0	35
R14-1422	60.4	57.0	Oct-02	4.5	0.0	38
Credenz CZ 5150LL	60.1	65.5	Sep-28	4.0	0.0	44
Progeny P5211 E3	60.1	•	Sep-29	6.5	0.0	42
R13-13997	59.9	60.8	Oct-01	5.0	0.0	38
R13-818	57.3	54.9	Oct-02	5.5	0.0	37
Go Soy 512E18	56.0	•	Sep-28	7.0	0.0	45
R16-2546C	55.9	•	Sep-27	5.5	0.0	37
Hefty H51E9	55.3	•	Sep-26	6.5	0.0	41
Grand Mean	61.8	•	Sep-29	5.0	0.0	40
LSD (5%)	10.1	•	•	1.1	•	•
C.V.	9.4	•	•	12.9	•	•
Xtend Cultivars						
Progeny P5016RXS	66.4	66.2	Sep-28	3.0	0.0	45
Asgrow AG 53X0	63.1	•	Sep-29	3.0	0.0	45
Asgrow AG 52X9	62.7	69.4	Sep-25	2.5	0.0	47
Local LS5087X	60.0	62.6	Sep-26	5.0	0.0	45
Armor 55-D57	59.3	63.6	Oct-02	3.0	0.0	38
Delta Grow 54X25	59.1	•	Sep-29	3.5	0.0	39
Eagle Seed ES 5155RYX	58.9	•	Sep-23	5.0	0.0	45
AgriGold G5000RX	58.4	57.9	Sep-29	4.5	0.0	45
Progeny P5170RX	57.4	•	Sep-25	4.5	0.0	42
Credenz CZ 5299X	56.9	•	Sep-26	4.5	0.0	47
Local LS5588X	56.4	•	Sep-29	3.0	0.0	39
Armor 51-D77	55.1	•	Oct-01	5.5	0.0	49
Armor 52-D71	55.0	65.4	Sep-29	3.5	0.0	45
Progeny P5554RX	54.7	61.1	Sep-30	3.0	0.0	38
Dyna-Gro S56XT99	53.9	60.4	Oct-02	3.5	0.0	39
Progeny P5252RX	51.4	56.2	Sep-30	5.5	0.0	44
Progeny P5688RX	50.9	58.6	Sep-30	4.0	0.0	40
Delta Grow 52X05	50.5	•	Sep-26	4.5	0.0	45
Dyna-Gro S52XS39	50.2	•	Sep-25	4.0	0.0	45
Local LS5386X	49.2	•	Sep-27	2.5	0.0	46
Progeny P5335RX	43.1	•	Oct-03	7.0	0.0	42
Grand Mean	55.8	•	Sep-28	4.0	0.0	43
LSD (5%)	9.2	•	•	1.0	•	•
C.V.	9.5	•	•	14.0	•	•

^aAverage yield from 2018 and 2019.^b Lodging scale: 1 (<10°), 2 (11–20°), 3 (21–30°), 4 (31–40°), 5 (41–50°), 6 (51–60°), 7 (61–70°), 8 (71–80°), 9 (81–90°).^c Shattering scale: 0 (<10%), 1 (11–20%), 2 (21–30%), 3 (31–40%), 4 (41–50%), 5 (51–60%), 6 (61–70%), 7 (71–80%), 8 (81–90%), 9 (91–100%).

Stuttgart: Rice Research and Extension Center (RREC)

Irrigated Soybean Varieties and Strains, 2019



Soil Series:	Crowley silt loam	Herbicide Application(s):	Flexstar + Select Select Storm + Classic	July 3 July 24 July 31
Previous Crop:	Rice			
pH:	6.3			
Row Spacing:	30 in.	Fertilizer Application(s):	60 lb/ac P + 75 lb/ac K	May 6
Planting Date:	May 31	Harvest Dates:	Relative Maturity (3.5–4.4) Relative Maturity (4.5–4.9) Relative Maturity (5.0–5.9)	Oct. 10, 20 Oct. 20 Oct. 20
Irrigation Dates:	Sept. 6, 20			

Table 11. Performance of Irrigated Soybean Varieties and Strains, Rice Research and Extension Center, Stuttgart, Ark., 2019.

Variety/Experimental Line	2019 (bu./ac)	2-Year ^a Average (bu./ac)	3-Year ^b Average (bu./ac)	Maturity Date	Lodging ^c Score	Shatter ^d Score	Plant Height (in.)
Relative Maturity 3.5–4.4							
Non-Xtend Cultivars							
Dyna-Gro S42EN89	57.8	•	•	Sep-15	1.0	0.0	25
Progeny P4291 LR	56.8	•	•	Sep-14	1.0	0.0	26
Progeny P4241 E3	56.4	•	•	Sep-14	1.0	0.0	25
Credenz CZ 3929GTLL	54.6	•	•	Sep-20	1.0	0.0	31
Delta Grow 45E23	54.3	•	•	Sep-15	1.0	0.0	27
S13-3851C	53.8	63.5	•	Sep-27	1.0	0.0	25
Credenz CZ 4222LL	52.2	60.6	64.2	Sep-13	1.0	0.0	26
Credenz CZ 3841LL	51.5	•	•	Sep-12	1.0	0.0	30
S13-2743C	50.0	56.6	•	Sep-12	1.0	0.0	30
Go Soy 44GL18	48.3	•	•	Sep-20	1.0	0.0	27
Grand Mean	53.6	•	•	Sep-16	1.0	0.0	27
LSD (5%)	3.6	•	•	•	•	•	•
C.V.	4.7	•	•	•	•	•	•
Xtend Cultivars							
AgriGold G4440RX	64.2	71.4	•	Sep-30	1.0	0.0	32
Progeny P4444 RXS	63.8	68.2	•	Sep-24	1.0	0.0	30
Progeny P4255 RX	59.8	67.0	•	Sep-27	1.0	0.0	31
Asgrow AG 43X0	59.3	•	•	Sep-26	1.0	0.0	27
Eagle Seed ES 4460RYX	58.5	67.5	68.3	Sep-26	1.0	0.0	31
Credenz CZ 4280X	58.2	•	•	Sep-20	1.0	0.0	26
MorSoy 4447 RXT	58.1	•	•	Sep-22	1.0	0.0	30
Progeny P4265 RXS	57.7	•	•	Oct-01	1.0	0.0	29
NK S44-C7X	57.4	•	•	Sep-24	1.0	0.0	28
Mission A4448X	56.7	•	•	Sep-25	1.0	0.0	30
Armor 44-D92	56.6	•	•	Sep-29	1.0	0.0	30
Local LS4299XS	56.6	•	•	Sep-24	1.0	0.0	30
Asgrow AG 42X9	56.2	•	•	Sep-22	1.0	0.0	33
Armor 42-D27	55.7	•	•	Sep-18	1.0	0.0	27
Local LS3976X	53.8	•	•	Sep-12	1.0	0.0	28
REV 4310X	53.5	•	•	Sep-23	1.0	0.0	32
NK S39-G2X	53.1	•	•	Sep-14	1.0	0.0	29
Dyna-Gro S41XS98	52.7	•	•	Sep-20	1.0	0.0	29
Local LS4487XS	47.9	•	•	Sep-27	1.0	0.0	29
Pioneer P42A96 X	47.9	•	•	Sep-18	1.0	0.0	27
Grand Mean	56.4	•	•	Sep-23	1.0	0.0	29
LSD (5%)	5.1	•	•	•	•	•	•
C.V.	6.5	•	•	•	•	•	•

Table 11. Performance of Irrigated Soybean Varieties and Strains, Rice Research and Extension Center, Stuttgart, Ark., 2019, Continued.

Variety/Experimental Line	2019	2-Year ^a Average	3-Year ^b Average	Maturity Date	Lodging ^c Score	Shatter ^d Score	Plant Height
	(bu./ac)	(bu./ac)	(bu./ac)				(in.)
Relative Maturity 4.5–4.9							
Non-Xtend Cultivars							
Dyna-Gro S46EN29	69.0	•	•	Oct-01	1.0	0.0	32
Delta Grow 48E10	67.8	•	•	Oct-06	1.0	0.0	34
Local ZS4797E3	66.0	•	•	Sep-25	1.0	0.0	34
Progeny P4710 E3	65.8	•	•	Oct-01	1.0	0.0	31
Local ZS4694E3S	65.6	•	•	Sep-27	1.0	0.0	32
Dyna-Gro S49EN79	65.5	•	•	Oct-05	1.0	0.0	35
Delta Grow 48E39	64.7	•	•	Sep-27	1.0	0.0	32
Progeny P4682 E3	64.5	•	•	Sep-29	1.0	0.0	34
Local ZS4596GLS	64.5	•	•	Sep-30	1.0	0.0	32
Progeny P4891 E3	63.6	•	•	Oct-06	1.0	0.0	33
Credenz CZ 4820LL	63.5	•	•	Sep-29	1.0	0.0	31
Credenz CZ 4649LL	63.0	•	•	Sep-29	1.0	0.0	36
Progeny P4833 E3	63.0	•	•	Sep-30	1.0	0.0	32
Go Soy 481E19	62.9	•	•	Oct-06	1.0	0.0	33
Petrus Seed 4916 GT	62.4	67.1	•	Sep-25	1.0	0.0	29
Hefty H48EO	62.1	•	•	Sep-27	1.0	0.0	32
Progeny P4525 E3	61.9	•	•	Sep-24	1.0	0.0	34
USG 7480ET	61.8	•	•	Oct-05	1.0	0.0	36
Pioneer P48A99L	61.7	•	•	Sep-25	1.0	0.0	31
USG 7460ET	61.6	•	•	Sep-29	1.0	0.0	31
Delta Grow 48E49	61.6	•	•	Sep-25	1.0	0.0	31
S14-15138R	61.3	•	•	Sep-30	1.0	0.0	29
Credenz CZ 4938LL	61.0	•	•	Oct-02	1.0	0.0	35
Go Soy 49G16	60.8	•	•	Sep-25	1.0	0.0	31
Progeny P4775 E3S	60.1	•	•	Sep-24	1.0	0.0	32
USG 7499ET	59.9	•	•	Oct-04	1.0	0.0	31
Credenz CZ 4540LL	59.9	64.0	63.2	Sep-28	1.0	0.0	35
Hefty H47EO	59.8	•	•	Sep-22	1.0	0.0	31
Go Soy 482E18	59.6	•	•	Sep-30	1.0	0.0	33
Hefty H48E9	59.2	•	•	Oct-04	1.0	0.0	30
Credenz CZ 4918LL	59.0	•	•	Sep-27	1.0	0.0	31
R16-253	58.8	•	•	Sep-26	1.0	0.0	32
R16-259	58.8	•	•	Sep-24	1.0	0.0	34
Delta Grow 49E29	58.7	•	•	Sep-26	1.0	0.0	30
Delta Grow 46E29	58.3	•	•	Sep-24	1.0	0.0	33
DONMARIO 48E73	58.2	•	•	Sep-29	1.0	0.0	31
R15-2422	58.0	•	•	Sep-29	1.7	0.0	36
Delta Grow 4977LL/STS	58.0	63.4	60.2	Sep-28	1.0	0.0	33
Delta Grow 47E19	57.5	•	•	Sep-30	1.0	0.0	31
Delta Grow 47E25	57.1	•	•	Sep-30	1.0	0.0	32
Go Soy 48C17S	55.8	•	•	Sep-26	1.0	0.0	32
Progeny P4565LR	54.2	•	•	Sep-24	1.0	0.0	33
Go Soy 46GL18	53.0	•	•	Sep-24	1.0	0.0	32
Credenz CZ 4539GTLL	51.1	•	•	Sep-25	1.0	0.0	33
Grand Mean	60.9	•	•	Sep-28	1.0	0.0	32
LSD (5%)	4.2	•	•	•	0.1	•	•
C.V.	5.0	•	•	•	8.6	•	•

Table 11. Performance of Irrigated Soybean Varieties and Strains, Rice Research and Extension Center, Stuttgart, Ark., 2019, Continued.

Variety/Experimental Line	2019	2-Year ^a Average	3-Year ^b Average	Maturity Date	Lodging ^c Score	Shatter ^d Score	Plant Height
	(bu./ac)	(bu./ac)	(bu./ac)				(in.)
Relative Maturity 4.5–4.9							
Xtend Cultivars							
REV 4927X	67.6	72.1	•	Oct-04	1.0	0.0	37
Local LS4407X	67.4	•	•	Sep-30	1.0	0.0	34
USG 7496XTS	66.5	69.5	68.3	Oct-01	1.0	0.0	33
DONMARIO 47x39	66.1	•	•	Sep-30	1.0	0.0	33
Progeny P4999RX	66.0	•	•	Oct-03	1.0	0.0	33
Taylor EXP 48-80	66.0	•	•	Oct-01	1.0	0.0	32
DONMARIO Experimental	66.0	•	•	Oct-03	1.0	0.0	39
NK S49-F5X	65.9	•	•	Sep-30	1.0	0.0	28
LG Seeds LGS4931RX	65.8	•	•	Oct-04	1.0	0.0	33
Local LS4565XS	65.8	•	•	Sep-24	1.0	0.0	37
Armor X47D85	65.6	•	•	Sep-26	1.0	0.0	30
Armor X48D25	65.3	•	•	Oct-04	1.0	0.0	32
Progeny P4851RX	65.1	71.9	•	Oct-01	1.0	0.0	33
Local LS4889XS	65.1	•	•	Oct-02	1.0	0.0	31
USG 7489XT	65.0	•	•	Oct-06	1.0	0.0	31
Dyna-Gro S46XS60	64.8	•	•	Sep-30	1.0	0.0	32
USG 7480XT	64.8	•	•	Oct-05	1.0	0.0	32
Delta Grow 49X15	64.8	•	•	Sep-30	1.0	0.0	34
Armor X48D88	64.8	•	•	Sep-23	1.0	0.0	34
Dyna-Gro S45XS66	64.7	69.9	69.6	Sep-30	1.0	0.0	38
Progeny P4821RX	64.7	•	•	Oct-04	1.0	0.0	35
Hefty H46X0S	64.4	•	•	Sep-27	1.0	0.0	30
Progeny P4670RX	64.4	•	•	Oct-05	1.0	0.0	30
AGS GS49X19	64.3	•	•	Oct-04	1.0	0.0	34
USG 7478XTS	64.2	67.1	•	Sep-30	1.0	0.0	31
Dyna-Gro S49XT39	64.0	•	•	Sep-30	1.0	0.0	32
Delta Grow 46X25	63.5	•	•	Sep-30	1.0	0.0	36
AgriGold G4579RX	63.4	•	•	Sep-30	1.0	0.0	35
Local LS4894X	63.4	•	•	Oct-02	1.0	0.0	34
Local LS4999X	63.0	•	•	Sep-29	1.0	0.0	36
Dyna-Gro S45XS37	62.8	70.3	•	Sep-26	1.0	0.0	33
Pioneer P48A60X	62.8	70.5	•	Oct-04	1.0	0.0	31
MorSoy 4846 RXT	62.7	68.6	•	Oct-05	1.0	0.0	32
Dyna-Gro S47XT20	62.6	•	•	Sep-25	1.0	0.0	34
Dyna-Gro S49XT70	62.6	•	•	Sep-29	1.0	0.0	32
Asgrow AG 46X6	62.6	•	•	Oct-04	1.0	0.0	30
Local LS4795XS	62.2	•	•	Oct-05	1.0	0.0	39

Table 11. Performance of Irrigated Soybean Varieties and Strains, Rice Research and Extension Center, Stuttgart, Ark., 2019, Continued.

Variety/Experimental Line	2019	2-Year ^a Average	3-Year ^b Average	Maturity Date	Lodging ^c Score	Shatter ^d Score	Plant Height
	(bu./ac)	(bu./ac)	(bu./ac)				(in.)
Relative Maturity 4.5–4.9							
Xtend Cultivars, Continued							
LG Seeds LGS4899RX	62.2	•	•	Oct-03	1.0	0.0	34
Armor X49D67	62.1	•	•	Sep-17	1.0	0.0	36
AGS GS48X19	62.1	•	•	Sep-27	1.0	0.0	31
Credenz CZ 4570X	61.9	•	•	Sep-27	1.0	0.0	30
Armor X47D18	61.8	•	•	Sep-25	1.0	0.0	36
AgriGold G4605RX	61.8	•	•	Sep-24	1.0	0.0	36
Dyna-Gro S48XT56	61.7	68.7	68.0	Oct-03	1.0	0.0	33
Asgrow AG 46X0	61.7	•	•	Sep-30	1.0	0.0	29
Delta Grow 48X45	61.7	•	•	Oct-06	1.0	0.0	30
Credenz CZ 4979X	61.6	•	•	Sep-30	1.0	0.0	34
Asgrow AG 49X9	61.5	•	•	Oct-05	1.0	0.0	32
Delta Grow 48X05	61.3	•	•	Sep-28	1.0	0.0	32
Asgrow AG 47X9	61.1	•	•	Sep-28	1.0	0.0	32
REV 4679X	61.0	•	•	Sep-22	1.0	0.0	33
Local LS4677X	60.5	•	•	Sep-30	1.0	0.0	38
AgriGold G4815RX	60.4	•	•	Sep-29	1.0	0.0	34
Taylor EXP 47-90	60.1	•	•	Sep-29	1.0	0.0	35
REV 4940X	60.0	•	•	Sep-26	1.0	0.0	32
Local LS4583X	60.0	•	•	Sep-26	1.0	0.0	33
Armor X46D09	59.8	•	•	Oct-01	1.0	0.0	29
Mission A4950X	59.7	•	•	Oct-03	1.0	0.0	34
Mission A4618X	59.5	•	•	Sep-28	1.0	0.0	34
Local LS4798X	59.4	•	•	Sep-26	1.0	0.0	31
Credenz CZ 4770X	59.2	•	•	Sep-29	1.0	0.0	32
Progeny P4620RXS	59.0	67.1	69.6	Sep-30	1.0	0.0	34
Eagle Seed ES 4840RYX	58.8	•	•	Oct-04	1.0	0.0	32
Eagle Seed ES 4680RYX	58.8	66.9	68.4	Sep-29	1.0	0.0	28
Asgrow AG 48X9	58.7	•	•	Oct-02	1.0	0.0	31
Pioneer P46A57BX	58.6	•	•	Sep-22	1.0	0.0	33
Asgrow AG 47X0	58.5	•	•	Sep-30	1.0	0.0	34
Armor X47D86	58.4	•	•	Sep-26	1.0	0.0	30
Credenz CZ 4600X	58.2	•	•	Sep-28	1.0	0.0	29
Credenz CZ 4869X	58.1	•	•	Sep-25	1.0	0.0	33
MorSoy 4706 RXT	57.8	•	•	Sep-25	1.0	0.0	37
Armor X46D30	57.8	•	•	Sep-23	1.0	0.0	30
Progeny P4799RXS	57.7	64.5	65.9	Sep-27	1.0	0.0	32
LG Seeds LGC4845RX	57.7	•	•	Oct-04	1.0	0.0	31
Progeny P4816RX	57.6	65.4	64.8	Oct-04	1.0	0.0	33
USG 7470XT	56.1	•	•	Sep-30	1.0	0.0	34
Armor X45D51	56.1	•	•	Sep-23	1.0	0.0	33
Delta Grow 46X65	55.2	•	•	Oct-04	1.0	0.0	29
LG Seeds LGS46682RX	53.5	•	•	Sep-23	1.0	0.0	35
Grand Mean	61.9	•	•	Sep-29	1.0	0.0	33
LSD (5%)	5.2	•	•	•	•	•	•
C.V.	6.2	•	•	•	•	•	•

Table 11. Performance of Irrigated Soybean Varieties and Strains, Rice Research and Extension Center, Stuttgart, Ark., 2019, Continued.

Variety/Experimental Line	2019 2019	2-Year ^a Average (bu./ac)	3-Year ^b Average (bu./ac)	Maturity Date	Lodging ^c Score	Shatter ^d Score	Plant Height (in.)
Relative Maturity 5.0–5.9							
Non-Xtend Cultivars							
R16-39	67.8	•	•	Oct-01	1.0	0.0	32
R14-1422	67.5	•	•	Oct-10	1.0	0.7	32
R16-2546C	66.8	•	•	Oct-06	1.0	0.0	33
R16-378	66.3	•	•	Oct-10	1.0	1.3	32
R13-13997	66.3	69.4	•	Oct-08	1.0	0.0	33
Delta Grow 52E22	64.5	•	•	Oct-08	1.0	0.0	36
R13-818	64.3	•	•	Oct-09	1.0	0.0	33
R16-2547	64.0	•	•	Oct-02	1.0	0.0	33
R15-1587	63.9	•	•	Oct-08	1.0	0.0	31
Credenz CZ 5150LL	63.4	67.9	66.3	Oct-09	1.0	0.0	35
R16-1445	63.3	•	•	Oct-09	1.3	0.7	34
Delta Grow 5585RR2	63.3	•	•	Oct-09	1.0	0.0	37
R13-14635RR	62.0	65.6	•	Oct-09	1.0	0.0	37
Go Soy 512E18	61.7	•	•	Oct-08	1.0	0.0	33
Go Soy 50G17	61.4	•	•	Oct-05	1.0	1.0	33
Hefty H51E9	61.0	•	•	Oct-07	1.0	0.0	35
Progeny P5211 E3	55.2	•	•	Oct-05	1.0	0.0	34
Grand Mean	63.7	•	•	Oct-07	1.0	0.2	34
LSD (5%)	3.2	•	•	•	0.2	0.8	•
C.V.	3.6	•	•	•	13.7	•	•
Xtend Cultivars							
Armor 51-D77	71.8	•	•	Oct-09	1.0	0.0	37
Progeny P5170RX	66.2	•	•	Oct-04	1.0	0.0	36
Asgrow AG 52X9	66.0	•	•	Oct-08	1.0	0.0	37
AgriGold G5000RX	65.4	69.2	•	Oct-08	1.0	0.0	36
Dyna-Gro S52XS39	65.3	•	•	Oct-09	1.0	0.0	33
Progeny P5016RXS	65.0	70.4	70.0	Oct-07	1.0	0.0	37
Progeny P5252RX	64.9	•	•	Oct-09	1.0	0.0	36
Delta Grow 52X05	64.9	•	•	Oct-09	1.0	0.0	35
Eagle Seed ES 5155RYX	64.6	•	•	Oct-01	1.0	0.0	39
Delta Grow 54X25	63.6	•	•	Oct-09	1.0	0.0	31
Local LS5588X	62.9	•	•	Oct-10	1.0	0.0	32
Asgrow AG 53X0	62.8	•	•	Oct-08	1.0	0.0	35
Progeny P5688RX	62.5	68.9	•	Oct-12	1.0	0.0	31
Progeny P5335RX	62.4	•	•	Oct-10	1.3	0.0	37
Local LS5386X	62.3	•	•	Oct-08	1.0	0.0	39
Dyna-Gro S56XT99	62.1	•	•	Oct-05	1.0	0.0	30
Armor 55-D57	61.9	•	•	Oct-10	1.0	0.0	33
Credenz CZ 5299X	61.1	•	•	Oct-09	1.0	0.0	35
Armor 52-D71	60.5	•	•	Oct-03	1.0	0.0	30
Progeny P5554RX	60.1	•	•	Oct-04	1.0	0.0	29
Local LS5087X	58.5	•	•	Oct-06	1.0	0.0	34
Grand Mean	63.6	•	•	Oct-07	1.0	0.0	34
LSD (5%)	7.5	•	•	•	0.2	•	•
C.V.	8.6	•	•	•	12.4	•	•

^a Average yield from 2017 and 2019.

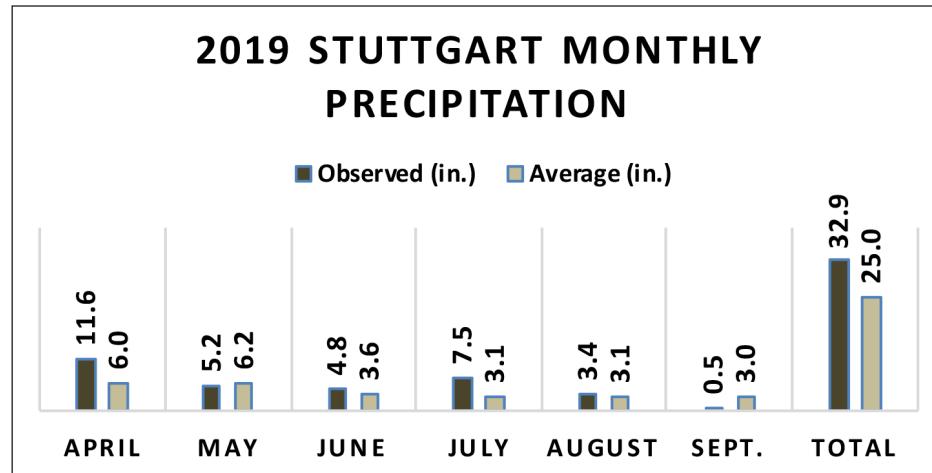
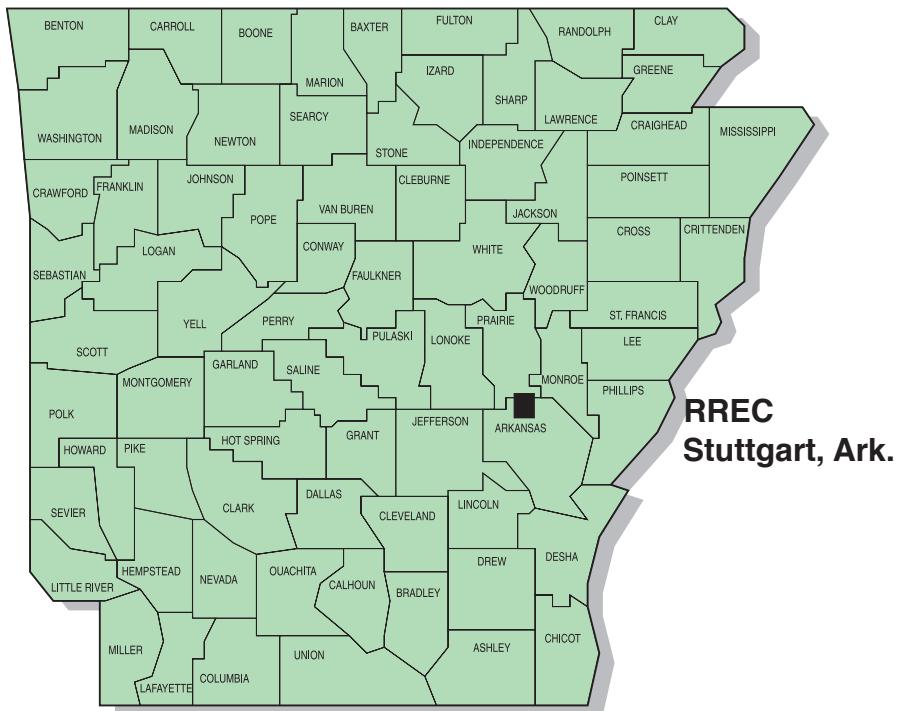
^b Average yield from 2016, 2017, and 2019.

^c Lodging scale: 1 (<10°), 2 (11–20°), 3 (21–30°), 4 (31–40°), 5 (41–50°), 6 (51–60°), 7 (61–70°), 8 (71–80°), 9 (81–90°).

^d Shattering scale: 0 (<10%), 1 (11–20%), 2 (21–30%), 3 (31–40%), 4 (41–50%), 5 (51–60%), 6 (61–70%), 7 (71–80%), 8 (81–90%), 9 (91–100%).

Stuttgart: Rice Research and Extension Center (RREC)

Non-Irrigated Soybean Varieties and Strains, 2019



Soil Series:	Crowley silt loam	Herbicide Application(s):	Dual Magnum	June 14
Previous Crop:	Rice	Flexstar	July 24	
pH:	6.4	Select	July 24	
Row Spacing:	30 in.	Storm + Classic	July 31	
Planting Date:	June 13	Fertilizer Application(s):	60 lb/ac P + 75 lb/ac K	May 6
		Harvest Dates:	Relative Maturity (3.5–4.4)	Oct. 17
			Relative Maturity (4.5–4.9)	Oct. 17
			Relative Maturity (5.0–5.9)	Oct. 17

Table 12. Performance of Non-Irrigated Soybean Varieties and Strains, Rice Research and Extension Center, Stuttgart, Ark., 2019.

Variety/Experimental Line	2019 (bu./ac)	Maturity Date	Lodging ^a Score	Shatter ^b Score	Plant Height (in.)
Relative Maturity 3.5–4.4					
Non-Xtend Cultivars					
Credenz CZ 3929GTLL	40.1	Sep-20	1.0	0.0	27
Progeny P4291LR	39.5	Sep-20	1.0	0.0	25
Credenz CZ 3841LL	38.9	Sep-17	1.0	0.0	23
Dyna-Gro S42EN89	38.2	Sep-16	1.0	0.0	25
Delta Grow 45E23	36.8	Sep-18	1.0	0.0	25
Progeny P4241 E3	36.2	Sep-18	1.0	0.0	23
Credenz CZ 4222LL	36.2	Sep-18	1.0	0.0	24
S13-2743C	34.5	Sep-18	1.0	0.0	24
S13-3851C	34.0	Sep-22	1.0	0.0	25
Go Soy 44GL18	32.4	Sep-20	1.0	0.0	26
Grand Mean	36.7	Sep-18	1.0	0.0	25
LSD (5%)	7.2	•	•	•	•
C.V.	13.9	•	•	•	•
Xtend Cultivars					
Local LS4299XS	46.2	Sep-25	1.0	0.0	27
REV 4310X	46.1	Sep-22	1.0	0.0	32
Progeny P4255RX	46.0	Sep-21	1.0	0.0	27
Mission A4448X	45.4	Sep-25	1.0	0.0	25
AgriGold G4440RX	45.2	Sep-29	1.0	0.0	30
NK S44-C7X	45.0	Sep-23	1.0	0.0	24
Progeny P4265RXS	43.9	Sep-25	1.0	0.0	27
Dyna-Gro S41XS98	43.8	Sep-20	1.0	0.0	26
Asgrow AG 43X0	43.7	Sep-25	1.0	0.0	26
Progeny P4444RXS	43.7	Sep-27	1.0	0.0	25
MorSoy 4447 RXT	42.9	Sep-25	1.0	0.0	24
Armor 44-D92	42.6	Sep-24	1.0	0.0	27
Eagle Seed ES 4460RYX	42.0	Sep-24	1.0	0.0	27
Local LS4487XS	41.7	Sep-25	1.0	0.0	27
Local LS3976X	41.3	Sep-22	1.0	0.0	26
Credenz CZ 4280X	40.8	Sep-18	1.0	0.0	24
Asgrow AG 42X9	39.8	Sep-24	1.0	0.0	24
Armor 42-D27	39.8	Sep-20	1.0	0.0	25
NK S39-G2X	39.7	Sep-20	1.0	0.0	26
Pioneer P42A96X	35.5	Sep-19	1.0	0.0	23
Grand Mean	42.8	Sep-23	1.0	0.0	26
LSD (5%)	6.4	•	•	•	•
C.V.	10.9	•	•	•	•

Table 12. Performance of Non-Irrigated Soybean Varieties and Strains, Rice Research and Extension Center, Stuttgart, Ark., 2019, Continued.

Variety/Experimental Line	2019 (bu./ac)	Maturity Date	Lodging ^a Score	Shatter ^b Score	Plant Height (in.)
Relative Maturity 4.5–4.9					
Non-Xtend Cultivars					
Petrus Seed 4916 GT	46.8	Sep-26	1.0	0.0	27
Credenz CZ 4820LL	44.9	Sep-24	1.0	0.0	31
Delta Grow 48E10	44.7	Sep-29	1.0	0.0	31
USG 7480ET	44.4	Sep-29	1.0	0.0	29
Go Soy 49G16	44.2	Sep-24	1.0	0.0	26
Local ZS4694E3S	44.0	Sep-26	1.0	0.0	27
Progeny P4775 E3S	44.0	Sep-27	1.0	0.0	30
Credenz CZ 4540LL	43.6	Sep-27	1.0	0.0	28
R16-259	43.5	Sep-24	1.0	0.0	25
Dyna-Gro S46EN29	43.3	Oct-01	1.0	0.0	27
Delta Grow 48E49	43.0	Sep-23	1.0	0.0	26
Pioneer P48A99L	42.8	Sep-21	1.0	0.0	31
Go Soy 481E19	42.0	Sep-27	1.0	0.0	29
Hefty H48E9	41.9	Sep-28	1.0	0.0	26
Delta Grow 48E39	41.7	Sep-22	1.0	0.0	28
Local ZS4797E3	41.7	Sep-25	1.0	0.0	28
Credenz CZ 4918LL	41.4	Sep-24	1.0	0.0	27
Local ZS4596GLS	41.4	Sep-30	1.0	0.0	29
Delta Grow 47E25	41.0	Sep-30	1.0	0.0	25
Credenz CZ 4649LL	41.0	Sep-30	1.0	0.0	32
Delta Grow 47E19	40.9	Sep-27	1.0	0.0	27
Delta Grow 49E29	40.8	Sep-29	1.0	0.0	28
Hefty H48E0	40.7	Sep-23	1.0	0.0	29
S14-15138R	40.4	Oct-01	1.0	0.0	25
Progeny P4833 E3	40.3	Sep-29	1.0	0.0	27
Progeny P4891 E3	40.2	Sep-30	1.0	0.0	29
USG 7499ET	40.1	Sep-29	1.0	0.0	27
R16-253	39.9	Sep-26	1.0	0.0	28
USG 7460ET	39.9	Sep-30	1.0	0.0	28
Progeny P4710 E3	39.9	Sep-28	1.0	0.0	28
Dyna-Gro S49EN79	39.9	Sep-29	1.0	0.0	29
Progeny P4682 E3	39.8	Sep-24	1.0	0.0	29
Delta Grow 46E29	39.5	Sep-26	1.0	0.0	27
Credenz CZ 4938LL	39.0	Sep-30	1.0	0.0	32
Progeny P4525 E3	38.7	Sep-26	1.0	0.0	26
Go Soy 48C17S	38.6	Sep-24	1.0	0.0	24
Hefty H47E0	38.3	Sep-18	1.0	0.0	27
Go Soy 482E18	37.7	Sep-25	1.0	0.0	28
Progeny P4565LR	37.5	Sep-24	1.0	0.0	28
R15-2422	37.3	Oct-03	1.0	0.0	26
DONMARIO 48E73	36.7	Oct-02	1.0	0.0	25
Delta Grow 4977LL/STS	35.3	Sep-26	1.0	0.0	29
Credenz CZ 4539GTL	33.7	Sep-27	1.0	0.0	27
Go Soy 46GL18	32.4	Sep-24	1.0	0.0	26
Grand Mean	40.6	Sep-26	1.0	0.0	28
LSD (5%)	4.5	•	•	•	•
C.V.	8.1	•	•	•	•

Arkansas Soybean Performance Tests 2019

Table 12. Performance of Non-Irrigated Soybean Varieties and Strains, Rice Research and Extension Center, Stuttgart, Ark., 2019, Continued.

Variety/Experimental Line	2019 (bu./ac)	Maturity Date	Lodging ^a Score	Shatter ^b Score	Plant Height (in.)
Relative Maturity 4.5–4.9					
Xtend Cultivars					
Progeny P4851RX	52.1	Oct-01	1.0	0.0	32
Armor X46D09	47.4	Sep-30	1.0	0.0	27
NK S49-F5X	47.3	Sep-26	1.0	0.0	26
Asgrow AG 49X9	47.0	Oct-02	1.0	0.0	28
REV 4927X	46.4	Oct-02	1.0	0.0	28
Armor X48D25	46.2	Sep-30	1.0	0.0	30
Mission A4618X	45.8	Oct-01	1.0	0.0	31
USG 7489XT	45.7	Oct-05	1.0	0.0	28
LG Seeds LGC4845RX	45.5	Oct-03	1.0	0.0	27
USG 7478XTS	45.4	Oct-03	1.0	0.0	30
Delta Grow 48X45	45.4	Oct-01	1.0	0.0	23
AgriGold G4579RX	45.3	Oct-01	1.0	0.0	29
Dyna-Gro S48XT56	45.3	Sep-30	1.0	0.0	28
Armor X47D18	45.0	Sep-27	1.0	0.0	32
LG Seeds LGS4899RX	45.0	Sep-29	1.0	0.0	31
Dyna-Gro S49XT39	44.9	Sep-27	1.0	0.0	31
Armor X47D85	44.5	Sep-28	1.0	0.0	26
Eagle Seed ES 4840RYX	44.4	Oct-04	1.0	0.0	30
Armor X49D67	44.0	Sep-29	1.0	0.0	32
DONMARIO Experimental	44.0	Oct-01	1.0	0.0	34
AgriGold G4815RX	43.9	Sep-29	1.0	0.0	32
Dyna-Gro S45XS66	43.8	Oct-02	1.0	0.0	31
LG Seeds LGS4931RX	43.7	Oct-01	1.0	0.0	33
AGS GS49X19	43.5	Sep-27	1.0	0.0	28
Eagle Seed ES 4680RYX	43.5	Oct-03	1.0	0.0	29
MorSoy 4706 RXT	43.4	Sep-30	1.0	0.0	33
Progeny P4821RX	43.2	Sep-30	1.0	0.0	29
USG 7496XTS	43.2	Oct-01	1.0	0.0	32
Taylor EXP 48-80	43.0	Sep-30	1.0	0.0	32
MorSoy 4846 RXT	42.7	Oct-04	1.0	0.0	28
Delta Grow 46X25	42.6	Oct-01	1.0	0.0	29
REV 4679X	42.5	Sep-24	1.0	0.0	26
Armor X47D86	42.5	Oct-01	1.0	0.0	30
Asgrow AG 48X9	42.3	Oct-03	1.0	0.0	29
Asgrow AG 46X6	42.2	Oct-01	1.0	0.0	31
AgriGold G4605RX	42.2	Sep-24	1.0	0.0	33
Progeny P4816RX	42.1	Oct-01	1.0	0.0	26
Local LS4889XS	42.0	Sep-30	1.0	0.0	29

Table 12. Performance of Non-Irrigated Soybean Varieties and Strains, Rice Research and Extension Center, Stuttgart, Ark., 2019, Continued.

Variety/Experimental Line	2019 (bu./ac)	Maturity Date	Lodging ^a Score	Shatter ^b Score	Plant Height (in.)
Relative Maturity 4.5–4.9					
Xtend Cultivars, Continued					
Credenz CZ 4570X	41.8	Sep-27	1.0	0.0	25
Asgrow AG 46X0	41.7	Oct-01	1.0	0.0	29
Armor X46D30	41.7	Sep-23	1.0	0.0	27
Dyna-Gro S47XT20	41.4	Sep-28	1.0	0.0	27
Dyna-Gro S45XS37	41.4	Sep-30	1.0	0.0	29
Asgrow AG 47X0	41.4	Oct-01	1.0	0.0	31
Local LS4795XS	41.3	Oct-01	1.0	0.0	34
USG 7470XT	41.2	Sep-29	1.0	0.0	29
Local LS4798X	41.1	Sep-25	1.0	0.0	27
Armor X45D51	41.0	Sep-25	1.0	0.0	27
Pioneer P46A57BX	40.9	Sep-24	1.0	0.0	30
Mission A4950X	40.8	Oct-02	1.0	0.0	30
Progeny P4799RXS	40.8	Sep-30	1.0	0.0	30
Asgrow AG 47X9	40.5	Sep-29	1.0	0.0	30
Credenz CZ 4979X	40.5	Sep-29	1.0	0.0	32
Credenz CZ 4600X	40.5	Oct-01	1.0	0.0	26
Delta Grow 49X15	40.4	Sep-27	1.0	0.0	32
Armor X48D88	40.1	Sep-28	1.0	0.0	30
Local LS4677X	40.1	Oct-04	1.0	0.0	33
Progeny P4999RX	39.9	Oct-02	1.0	0.0	28
AGS GS48X19	39.6	Sep-30	1.0	0.0	28
Credenz CZ 4869X	39.6	Sep-23	1.0	0.0	30
Pioneer P48A60X	39.4	Sep-25	1.0	0.0	28
Progeny P4670RX	39.3	Oct-01	1.0	0.0	25
DONMARIO 47x39	38.5	Oct-01	1.0	0.0	27
Delta Grow 48X05	38.5	Oct-01	1.0	0.0	27
REV 4940X	38.5	Sep-27	1.0	0.0	24
LG Seeds LGS46682RX	38.3	Sep-26	1.0	0.0	30
Local LS4894X	38.3	Sep-28	1.0	0.0	27
Local LS4999X	38.3	Oct-04	1.0	0.0	28
Dyna-Gro S49XT70	38.2	Sep-30	1.0	0.0	31
Taylor EXP 47-90	38.2	Sep-30	1.0	0.0	33
Progeny P4620RXS	37.9	Sep-29	1.0	0.0	29
Dyna-Gro S46XS60	37.8	Oct-01	1.0	0.0	26
USG 7480XT	37.3	Oct-01	1.0	0.0	28
Credenz CZ 4770X	37.1	Sep-30	1.0	0.0	26
Local LS4565XS	36.9	Sep-27	1.0	0.0	27
Hefty H46X0S	36.0	Sep-29	1.0	0.0	27
Local LS4407X	35.9	Oct-01	1.0	0.0	29
Local LS4583X	33.7	Sep-26	1.0	0.0	29
Delta Grow 46X65	33.1	Oct-06	1.0	0.0	20
Grand Mean	41.7	Sep-29	1.0	0.0	29
LSD (5%)	5.7	•	•	•	•
C.V.	10.1	•	•	•	•

Table 12. Performance of Non-Irrigated Soybean Varieties and Strains, Rice Research and Extension Center, Stuttgart, Ark., 2019, Continued.

Variety/Experimental Line	2019 (bu./ac)	Maturity Date	Lodging ^a Score	Shatter ^b Score	Plant Height (in.)
Relative Maturity 5.0–5.9					
Non-Xtend Cultivars					
R16-378	44.5	Oct-03	1.0	0.0	26
Progeny P5211 E3	43.0	Sep-30	1.0	0.0	28
R13-818	42.4	Oct-05	1.0	0.0	23
Go Soy 512E18	42.3	Oct-01	1.0	0.0	28
R16-1445	42.3	Oct-04	1.0	0.0	27
R13-14635RR	42.2	Oct-04	1.0	0.0	29
Go Soy 50G17	41.4	Oct-01	1.0	0.0	22
Delta Grow 5585RR2	41.3	Oct-01	1.0	0.0	24
R13-13997	41.1	Oct-03	1.0	0.0	23
R14-1422	41.1	Oct-01	1.0	0.0	24
R16-2546C	41.0	Sep-30	1.0	0.0	23
Delta Grow 52E22	40.8	Sep-30	1.0	0.0	28
Hefty H51E9	40.6	Oct-02	1.0	0.0	28
R15-1587	39.8	Sep-30	1.0	0.0	23
R16-2547	38.9	Sep-28	1.0	0.0	23
Credenz CZ 5150LL	38.0	Oct-02	1.0	0.0	29
R16-39	37.6	Sep-29	1.0	0.0	23
Grand Mean	41.1	Oct-01	1.0	0.0	25
LSD (5%)	3.0	•	•	•	•
C.V.	5.2	•	•	•	•
Xtend Cultivars					
Progeny P5016RXS	49.6	Oct-06	1.0	0.0	30
Local LS5386X	49.0	Oct-06	1.0	0.0	29
Asgrow AG 53X0	47.3	Oct-05	1.0	0.0	31
Progeny P5252RX	46.7	Oct-05	1.0	0.0	31
Armor 52-D71	46.4	Oct-05	1.0	0.0	28
Local LS5087X	45.6	Oct-02	1.0	0.0	31
AgriGold G5000RX	45.6	Oct-05	1.0	0.0	31
Progeny P5335RX	45.0	Oct-06	1.0	0.0	29
Armor 55-D57	44.5	Oct-03	1.0	0.0	27
Credenz CZ 5299X	42.8	Oct-05	1.0	0.0	29
Progeny P5554RX	42.1	Oct-06	1.0	0.0	24
Dyna-Gro S52XS39	42.0	Oct-05	1.0	0.0	31
Armor 51-D77	41.2	Oct-03	1.0	0.0	33
Dyna-Gro S56XT99	40.4	Oct-02	1.0	0.0	27
Delta Grow 52X05	40.4	Oct-04	1.0	0.0	31
Asgrow AG 52X9	40.2	Oct-03	1.0	0.0	25
Local LS5588X	38.7	Sep-30	1.0	0.0	26
Delta Grow 54X25	38.1	Oct-04	1.0	0.0	24
Eagle Seed ES 5155RYX	38.0	Oct-03	1.0	0.0	31
Progeny P5170RX	37.2	Oct-02	1.0	0.0	26
Progeny P5688RX	36.2	Oct-04	1.0	0.0	22
Grand Mean	42.7	Oct-04	1.0	0.0	28
LSD (5%)	6.9	•	•	•	•
C.V.	11.7	•	•	•	•

^a Lodging scale: 1 (<10°), 2 (11–20°), 3 (21–30°), 4 (31–40°), 5 (41–50°), 6 (51–60°), 7 (61–70°), 8 (71–80°), 9 (81–90°).

^b Shattering scale : 0 (<10%), 1 (11–20%), 2 (21–30%), 3 (31–40%), 4 (41–50%), 5 (51–60%), 6 (61–70%), 7 (71–80%), 8 (81–90%), 9 (91–100%).

Table 13. Performance of Select Soybean Varieties under Waterlogged Conditions for 3 Days at V2 Growth Stage vs. Non-Waterlogged, Rice Research and Extension Center, Stuttgart, Ark., 2019.

Variety/Experimental Line	Herbicide Technology	Relative Maturity	Non-Waterlogged [†]				Waterlogged [†] (3 Days at V2)			
			Yield (bu./ac)	LSD [‡]	Rank	Plant Ht. (in.)	Yield (bu./ac)	LSD [‡]	Rank	Plant Ht. (in.)
Asgrow AG 42X9	Xtend	4.2	67.8	KLJHIM	39	34.0	58.1	EJHIGF	38	29.3
Asgrow AG 43X0	Xtend	4.3	69.7	KLJHIGM	37	28.3	52.3	JHIK	42	24.0
Asgrow AG 46X0	Xtend	4.6	75.5	EBDAGCF	11	32.0	70.0	BDAC	6	26.0
Asgrow AG 46X6	Xtend	4.6	70.5	KLJHIGF	34	31.3	64.7	EBDAGCF	25	26.3
Asgrow AG 47X9	Xtend	4.7	72.3	EKBJDHIGCF	30	30.0	62.4	EBDHAGCF	31	26.7
Asgrow AG 48X9	Xtend	4.8	72.9	EKBJDHIGCF	25	32.0	61.8	EBDHAGCF	33	26.0
Asgrow AG 49X9	Xtend	4.9	74.7	EBDHGCF	15	29.0	63.3	EBDHAGCF	28	24.0
Asgrow AG 52X9	Xtend	5.2	79.7	BA	2	33.7	70.2	BAC	4	31.3
Asgrow AG 53X0	Xtend	5.3	69.3	KLJHIGM	38	34.3	64.1	EBDAGCF	27	31.3
Credenz CZ 4280X	Xtend	4.2	76.4	EBDAGCF	8	29.7	61.4	EBDHAGCF	34	25.3
Credenz CZ 4539GTLL	GT/LL	4.5	66.1	KLM	43	33.0	56.5	JHIGKF	39	28.3
Credenz CZ 4570X	Xtend	4.5	75.3	EBDAGCF	13	30.3	69.7	BDAC	9	25.0
Credenz CZ 4600X	Xtend	4.6	73.8	EBDHIGCF	19	29.7	68.7	EBDAC	14	29.0
Credenz CZ 4649LL	LL	4.6	72.0	EKJDHIGCF	31	36.0	69.7	BDAC	11	33.0
Credenz CZ 4770X	Xtend	4.7	82.7	A	1	31.7	68.0	EBDAC	17	29.0
Credenz CZ 4869X	Xtend	4.8	74.5	EBDHGCF	16	30.7	67.8	EBDAC	18	26.3
Credenz CZ 4938LL	LL	4.9	72.5	EKBJDHIGCF	27	41.7	66.6	EBDACF	21	35.7
Credenz CZ 4979X	Xtend	4.9	78.1	EBDAC	5	30.0	72.1	BA	3	30.7
Credenz CZ 5299X	Xtend	5.2	72.9	EKBJDHIGCF	26	37.7	67.6	EBDAC	20	35.0
Progeny P4241 E3	E3	4.2	67.7	KLJHIM	40	26.0	51.4	JIK	43	23.0
Progeny P4255 RX	Xtend	4.2	70.8	EKLJHIGF	33	32.0	58.9	EJDHIGF	37	26.3
Progeny P4265 RXS	Xtend/STS	4.2	72.4	EKBJDHIGCF	29	29.0	55.4	JHIGK	41	25.0
Progeny P4291 LR	LL/GT27	4.2	66.7	KLJM	42	25.7	61.2	EBDHIGCF	35	24.3
Progeny P4444 RXS	Xtend/STS	4.4	74.1	EBDHIGCF	18	29.7	67.6	EBDAC	19	25.0
Progeny P4525 E3	E3	4.5	73.1	EKBJDHIGCF	22	31.0	65.9	EBDAGCF	22	26.7
Progeny P4565 LR	LL/GT27	4.5	63.3	M	45	32.0	42.8	L	45	26.3
Progeny P4620 RXS	Xtend/STS	4.6	64.5	LM	44	31.7	48.6	LK	44	25.7
Progeny P4670 RX	Xtend	4.6	74.8	EBDHAGCF	14	31.0	68.1	EBDAC	16	28.0
Progeny P4682 E3	E3	4.6	70.3	KLJHIGF	35	29.7	59.4	EJDHIGCF	36	24.7
Progeny P4710 E3	E3	4.7	79.1	BAC	3	30.3	64.9	EBDAGCF	24	27.7
Progeny P4775 E3S	E3/STS	4.7	73.0	EKBJDHIGCF	24	32.3	63.3	EBDHAGCF	29	29.3
Progeny P4799 RXS	Xtend/STS	4.7	73.0	EKBJDHIGCF	23	31.7	65.2	EBDAGCF	23	30.3
Progeny P4816 RX	Xtend	4.8	72.5	EKBJDHIGCF	28	26.7	64.1	EBDAGCF	26	23.7
Progeny P4821 RX	Xtend	4.8	77.7	EBDACF	7	28.7	62.2	EBDHAGCF	32	26.7
Progeny P4833 E3	E3	4.8	70.2	KLJHIG	36	31.7	55.4	JHIGK	40	26.3
Progeny P4851 RX	Xtend	4.8	73.4	EBJDHIGCF	20	34.3	68.8	EBDAC	13	28.7
Progeny P4891 E3	E3	4.8	71.2	EKLJDHIGF	32	33.7	70.0	BDAC	7	27.7
Progeny P4999 RX	Xtend	4.9	78.7	BDAC	4	31.3	69.9	BDAC	8	28.3
Progeny P5016 RXS	Xtend/STS	5.0	78.1	EBDAC	6	34.3	72.5	BA	2	31.3
Progeny P5170 RX	Xtend	5.1	74.3	EBDHIGCF	17	36.7	68.9	EBDAC	12	31.7
Progeny P5211 E3	E3	5.2	75.5	EBDAGCF	9	31.0	70.1	BAC	5	27.3
Progeny P5252 RX	Xtend	5.2	75.5	EBDAGCF	10	37.7	72.9	A	1	30.7
Progeny P5335 RX	Xtend	5.3	67.2	KLJIM	41	31.3	69.7	BDAC	10	33.0
Progeny P5554 RX	Xtend	5.5	75.4	EBDAGCF	12	28.0	68.4	EBDAC	15	22.0
Progeny P5688 RX	Xtend	5.6	73.3	EBJDHIGCF	21	28.7	62.6	EBDHAGCF	30	20.3
Grand Mean			72.9			31.6	63.8			27.6
Std. Dev.			4.0			3.1	6.8			3.3
C.V.			5.5			9.8	10.7			11.2

[†]Yield and height across waterlogged and non-waterlogged treatments were significantly different at the 10% confidence level.[‡]Varieties that share the same letters are not significantly different.

**Participants and Entries
2019 Soybean Performance Tests**

Company/ Institute	Variety/Experimental Line	Relative Maturity	Herbicide Technology	Seed Treatment
AgriGold Hybrids 5381 Akin Rd. St. Francisville, IL 62460	AgriGold G4440RX	4.4	Xtend	Cruiser/ILeVO
	AgriGold G4579RX	4.5	Xtend	Cruiser/ILeVO
	AgriGold G4605RX	4.6	Xtend	Cruiser/ILeVO
	AgriGold G4815RX	4.6	Xtend	Cruiser/ILeVO
	AgriGold G5000RX	5.0	Xtend	Cruiser/ILeVO
Armor Seed 2532 Alexander Dr. Jonesboro, AR 72401	Armor 42-D27	4.2	Xtend	Defend Extra
	Armor 44-D92	4.4	Xtend	Defend Extra
	Armor 51-D77	5.1	Xtend	Defend Extra
	Armor 52-D71	5.2	Xtend	Defend Extra
	Armor 55-D57	5.5	Xtend	Defend Extra
	Armor X45D51	4.5	Xtend	Defend Extra
	Armor X46D09	4.6	Xtend	Defend Extra
	Armor X46D30	4.6	Xtend	Defend Extra
	Armor X47D18	4.7	Xtend	Defend Extra
	Armor X47D85	4.7	Xtend	Defend Extra
	Armor X47D86	4.7	Xtend	Defend Extra
	Armor X48D25	4.8	Xtend	Defend Extra
	Armor X48D88	4.8	Xtend	Defend Extra
	Armor X49D67	4.9	Xtend	Defend Extra
Bayer CropScience 2 TW Alexander Dr. Research Triangle Park, NC 27709	Asgrow AG 42X9	4.2	Xtend	Acceleron/PonchoVotivo
	Asgrow AG 43X0	4.3	Xtend	Acceleron/PonchoVotivo
	Asgrow AG 46X0	4.6	Xtend	Acceleron/PonchoVotivo
	Asgrow AG 46X6	4.6	Xtend	Acceleron/PonchoVotivo
	Asgrow AG 47X0	4.7	Xtend	Acceleron/PonchoVotivo
	Asgrow AG 47X9	4.7	Xtend	Acceleron/PonchoVotivo
	Asgrow AG 48X9	4.8	Xtend	Acceleron/PonchoVotivo
	Asgrow AG 49X9	4.9	Xtend	Acceleron/PonchoVotivo
	Asgrow AG 52X9	5.2	Xtend	Acceleron/PonchoVotivo
	Asgrow AG 53X0	5.3	Xtend	Acceleron/PonchoVotivo
BASF Corporation 100 Park Ave. Florham, NJ 07932	Credenz CZ 3841LL	3.8	LL	ILeVO/Trilex 2000
	Credenz CZ 3929GTLL	3.9	GT/LL	ILeVO/Trilex 2000
	Credenz CZ 4222LL	4.2	LL	ILeVO/Trilex 2000
	Credenz CZ 4280X	4.2	Xtend	ILeVO/Trilex 2000
	Credenz CZ 4539GTLL	4.5	GT/LL	ILeVO/Trilex 2000
	Credenz CZ 4540LL	4.5	LL	ILeVO/Trilex 2000
	Credenz CZ 4570X	4.5	Xtend	ILeVO/Trilex 2000
	Credenz CZ 4600X	4.6	Xtend	ILeVO/Trilex 2000
	Credenz CZ 4649LL	4.6	LL	ILeVO/Trilex 2000
	Credenz CZ 4770X	4.7	Xtend	ILeVO/Trilex 2000
	Credenz CZ 4820LL	4.8	LL	ILeVO/Trilex 2000
	Credenz CZ 4869X	4.8	Xtend	ILeVO/Trilex 2000
	Credenz CZ 4918LL	4.9	LL	ILeVO/Trilex 2000
	Credenz CZ 4938LL	4.9	LL	ILeVO/Trilex 2000
	Credenz CZ 4979X	4.9	Xtend	ILeVO/Trilex 2000
	Credenz CZ 5150LL	5.1	LL	ILeVO/Trilex 2000
	Credenz CZ 5299X	5.2	Xtend	ILeVO/Trilex 2000

**Participants and Entries
2019 Soybean Performance Tests, Continued**

Company/ Institute	Variety/Experimental Line	Relative Maturity	Herbicide Technology	Seed Treatment
Delta Grow Seed 220 NW 2nd England, AR 72046	Delta Grow 45E23	4.4	E3	CruiserMaxx
	Delta Grow 46E29	4.6	E3/STS	CruiserMaxx
	Delta Grow 46X25	4.6	Xtend	CruiserMaxx
	Delta Grow 46X65	4.6	Xtend/STS	CruiserMaxx
	Delta Grow 47E19	4.7	E3	CruiserMaxx
	Delta Grow 47E25	4.7	E3	CruiserMaxx
	Delta Grow 48E10	4.8	E3	CruiserMaxx
	Delta Grow 48E39	4.8	E3	CruiserMaxx
	Delta Grow 48E49	4.8	E3/STS	CruiserMaxx
	Delta Grow 48X05	4.8	Xtend	CruiserMaxx
	Delta Grow 48X45	4.8	Xtend	CruiserMaxx
	Delta Grow 4977LL/STS	4.9	LL/STS	CruiserMaxx
	Delta Grow 49E29	4.9	E3	CruiserMaxx
	Delta Grow 49X15	4.9	Xtend	CruiserMaxx
	Delta Grow 52E22	5.2	E3	CruiserMaxx
	Delta Grow 52X05	5.2	Xtend/STS	CruiserMaxx
	Delta Grow 54X25	5.4	Xtend	CruiserMaxx
	Delta Grow 5585RR2	5.5	RR2	CruiserMaxx
Eagle Seed Company P.O. Box 308 Weiner, AR 72479	Eagle Seed ES 4460RYX	4.4	Xtend	CruiserMaxx
	Eagle Seed ES 4680RYX	4.6	Xtend	CruiserMaxx
	Eagle Seed ES 4840RYX	4.8	Xtend	CruiserMaxx
	Eagle Seed ES 5155RYX	5.1	Xtend	CruiserMaxx
GDM Seeds Inc. 4003 Commercial Center Dr. Marion, AR 72364	DONMARIO 47x39	4.7	Xtend	CruiserMaxx
	DONMARIO 48E73	4.8	Enlist	CruiserMaxx
	DONMARIO Experimental	4.9	Xtend	CruiserMaxx
Hefty Seed Co. 47504 252nd St. Baltic, SD 57003	Hefty H46X05	4.6	Xtend	Hefty Complete
	Hefty H47E0	4.7	E3	Hefty Complete
	Hefty H48E0	4.8	E3	Hefty Complete
	Hefty H48E9	4.8	E3	Hefty Complete
	Hefty H51E9	5.1	E3	Hefty Complete
LG Seeds 22827 W Shissler Rd. Elmwood, IL 61529	LG Seeds LGC4845RX	4.8	Xtend	AgriShield FI + ILeVO
	LG Seeds LGS46682RX	4.6	Xtend	AgriShield FI + ILeVO
	LG Seeds LGS4899RX	4.8	Xtend	AgriShield FI + ILeVO
	LG Seeds LGS4931RX	4.9	Xtend	AgriShield FI + ILeVO

**Participants and Entries
2019 Soybean Performance Tests, Continued**

Company/ Institute	Variety/Experimental Line	Relative Maturity	Herbicide Technology	Seed Treatment
Local Seed Co. 802 Rozelle St. Memphis, TN 38104	Local LS3976X	3.9	Xtend	TriusElite
	Local LS4299XS	4.2	Xtend	TriusElite
	Local LS4407X	4.5	Xtend	TriusElite
	Local LS4487XS	4.4	Xtend	TriusElite
	Local LS4565XS	4.5	Xtend	TriusElite
	Local LS4583X	4.5	Xtend	TriusElite
	Local LS4677X	4.6	Xtend	TriusElite
	Local LS4795XS	4.6	Xtend	TriusElite
	Local LS4798X	4.7	Xtend	TriusElite
	Local LS4889XS	4.8	Xtend	TriusElite
	Local LS4894X	4.8	Xtend	TriusElite
	Local LS4999X	4.9	Xtend	TriusElite
	Local LS5087X	5.0	Xtend	TriusElite
	Local LS5386X	5.3	Xtend	TriusElite
	Local LS5588X	5.5	Xtend	TriusElite
	Local ZS4596GLS	4.5	GT/LL	TriusElite
	Local ZS4694E3S	4.6	Enlist	TriusElite
	Local ZS4797E3	4.7	Enlist	TriusElite
MFA Inc. 201 Ray Young Dr. Columbia, MO 65201	MorSoy 4447 RXT	4.4	Xtend	CruiserMaxx Vibrance
	MorSoy 4706 RXT	4.7	Xtend	CruiserMaxx Vibrance
	MorSoy 4846 RXT	4.8	Xtend	CruiserMaxx Vibrance
Mission Seed Solutions 516 N. Sharpe Ave. Cleveland, MS 38732	Mission A4448X	4.4	Xtend	Revize PBI
	Mission A4618X	4.6	Xtend	Revize PBI
	Mission A4950X	4.9	Xtend	Revize PBI
NK Syngenta Seed 130 Myra Shirey Lane Bernice, LA 71222	NK S39-G2X	3.9	Xtend	Clariva Complete/mertect
	NK S44-C7X	4.4	Xtend	Clariva Complete/mertect
	NK S49-F5X	4.9	Xtend	Clariva Complete/mertect
Nutrien Ag Solutions 3005 Rocky Mountain Ave. Loveland, CO 80538	Dyna-Gro S41XS98	4.1	Xtend/STS	Equity VIP
	Dyna-Gro S42EN89	4.2	Enlist	Equity VIP
	Dyna-Gro S45XS37	4.5	Xtend/STS	Equity VIP
	Dyna-Gro S45XS66	4.5	Xtend/STS	Equity VIP
	Dyna-Gro S46EN29	4.6	Enlist	Equity VIP
	Dyna-Gro S46XS60	4.6	Xtend/STS	Equity VIP
	Dyna-Gro S47XT20	4.7	Xtend	Equity VIP
	Dyna-Gro S48XT56	4.8	Xtend	Equity VIP
	Dyna-Gro S49EN79	4.9	Enlist	Equity VIP
	Dyna-Gro S49XT39	4.9	Xtend	Equity VIP
	Dyna-Gro S49XT70	4.9	Xtend	Equity VIP
	Dyna-Gro S52XS39	5.2	Xtend/STS	Equity VIP
	Dyna-Gro S56XT99	5.6	Xtend	Equity VIP
Petrus Seed & Grain Co., Inc. 4100 Hanson Rd. Hazen, AR 72064	Petrus Seed 4916 GT	4.9	RR1	Intego Suite SB

**Participants and Entries
2019 Soybean Performance Tests, Continued**

Company/ Institute	Variety/Experimental Line	Relative Maturity	Herbicide Technology	Seed Treatment
Pioneer Hi-Bred Int. 7300 NW 62nd Ave. Johnston, IA 50131	Pioneer P42A96X	4.2	Xtend	Pioneer Premium Seed Treatment
	Pioneer P46A57BX	4.6	Xtend	Pioneer Premium Seed Treatment
	Pioneer P48A60X	4.8	Xtend	Pioneer Premium Seed Treatment
	Pioneer P48A99L	4.8	LL	Pioneer Premium Seed Treatment
Progeny Ag Products 1529 Hwy 193 Wynne, AR 72396	Progeny P4241 E3	4.2	E3	Poncho/Votivo/Trilex 2000/Ilevo
	Progeny P4255 RX	4.2	Xtend	Poncho/Votivo/Trilex 2000/Ilevo
	Progeny P4265 RXS	4.2	Xtend/STS	Poncho/Votivo/Trilex 2000/Ilevo
	Progeny P4291 LR	4.2	LL/GT27	Poncho/Votivo/Trilex 2000/Ilevo
	Progeny P4444 RXS	4.4	Xtend/STS	Poncho/Votivo/Trilex 2000/Ilevo
	Progeny P4525 E3	4.5	E3	Poncho/Votivo/Trilex 2000/Ilevo
	Progeny P4565 LR	4.5	LL/GT27	Poncho/Votivo/Trilex 2000/Ilevo
	Progeny P4620 RXS	4.6	Xtend/STS	Poncho/Votivo/Trilex 2000/Ilevo
	Progeny P4670 RX	4.6	Xtend	Poncho/Votivo/Trilex 2000/Ilevo
	Progeny P4682 E3	4.6	E3	Poncho/Votivo/Trilex 2000/Ilevo
	Progeny P4710 E3	4.7	E3	Poncho/Votivo/Trilex 2000/Ilevo
	Progeny P4775 E3S	4.7	E3/STS	Poncho/Votivo/Trilex 2000/Ilevo
	Progeny P4799 RXS	4.7	Xtend/STS	Poncho/Votivo/Trilex 2000/Ilevo
	Progeny P4816 RX	4.8	Xtend	Poncho/Votivo/Trilex 2000/Ilevo
	Progeny P4821 RX	4.8	Xtend	Poncho/Votivo/Trilex 2000/Ilevo
	Progeny P4833 E3	4.8	E3	Poncho/Votivo/Trilex 2000/Ilevo
	Progeny P4851 RX	4.8	Xtend	Poncho/Votivo/Trilex 2000/Ilevo
	Progeny P4891 E3	4.8	E3	Poncho/Votivo/Trilex 2000/Ilevo
	Progeny P4999 RX	4.9	Xtend	Poncho/Votivo/Trilex 2000/Ilevo
	Progeny P5016 RXS	5.0	Xtend/STS	Poncho/Votivo/Trilex 2000/Ilevo
	Progeny P5170 RX	5.1	Xtend	Poncho/Votivo/Trilex 2000/Ilevo
	Progeny P5211 E3	5.2	E3	Poncho/Votivo/Trilex 2000/Ilevo
	Progeny P5252 RX	5.2	Xtend	Poncho/Votivo/Trilex 2000/Ilevo
	Progeny P5335 RX	5.3	Xtend	Poncho/Votivo/Trilex 2000/Ilevo
	Progeny P5554 RX	5.5	Xtend	Poncho/Votivo/Trilex 2000/Ilevo
	Progeny P5688 RX	5.6	Xtend	Poncho/Votivo/Trilex 2000/Ilevo
Stratton Seed Company P.O. Box 1088 Stuttgart, AR 72160	AGS GS48X19	4.8	Xtend	CruiserMaxx Vibrance
	AGS GS49X19	4.9	Xtend	CruiserMaxx Vibrance
	Go Soy 44GL18	4.4	LL/GT27	CruiserMaxx Vibrance
	Go Soy 46GL18	4.6	LL/GT27	CruiserMaxx Vibrance
	Go Soy 481E19	4.8	E3	CruiserMaxx Vibrance
	Go Soy 482E18	4.8	E3	CruiserMaxx Vibrance
	Go Soy 48C17S	4.8	Conv.	CruiserMaxx Vibrance
	Go Soy 49G16	4.9	RR1	CruiserMaxx Vibrance
	Go Soy 50G17	5.0	RR1	CruiserMaxx Vibrance
	Go Soy 512E18	5.1	E3	CruiserMaxx Vibrance
Terral Seed, Inc. P. O. Box 826 Lake Providence, LA 71254	REV 4310X	4.3	Xtend	Apron/EvergoEnergy/Gaucho
	REV 4679X	4.6	Xtend	Apron/EvergoEnergy/Gaucho
	REV 4927X	4.9	Xtend	Apron/EvergoEnergy/Gaucho
	REV 4940X	4.9	Xtend	Apron/EvergoEnergy/Gaucho

**Participants and Entries
2019 Soybean Performance Tests, Continued**

Company/ Institute	Variety/Experimental Line	Relative Maturity	Herbicide Technology	Seed Treatment
UniSouth Genetics, Inc. 3205-C HWY 46 S Dickson, TN 37055	USG 7480XT	4.8	Xtend	Imidicloprid/Apron/Maxim
	USG 7489XT	4.8	Xtend	Imidicloprid/Apron/Maxim
	USG 7496XTS	4.9	Xtend/STS	Imidicloprid/Apron/Maxim
	USG 7499ET	4.9	Enlist	Imidicloprid/Apron/Maxim
University of Arkansas 115 Plant Science Building Fayetteville, AR 72701	R13-13997	5.4	Conv.	Intego/AVEO
	R13-14635RR	5.4	RR1	Intego/AVEO
	R13-818	5.3	Conv.	Intego/AVEO
	R14-1422	5.4	Conv.	Intego/AVEO
	R15-1587	5.1	Conv.	Intego/AVEO
	R15-2422	4.7	Conv.	Intego/AVEO
	R16-1445	5.4	Conv.	Intego/AVEO
	R16-253	4.6	Conv.	Intego/AVEO
	R16-2546C	5.1	Conv.	Intego/AVEO
	R16-2547	5.2	Conv.	Intego/AVEO
	R16-259	4.6	Conv.	Intego/AVEO
	R16-378	5.4	Conv.	Intego/AVEO
	R16-39	5.1	Conv.	Intego/AVEO
University of Missouri 147 State Hwy T Portageville, MO 63873	S13-2743C	4.1	Conv.	Inovate
	S13-3851C	4.4	Conv.	Inovate
	S14-15138R	4.8	RR1/STS	Inovate
Taylor Seed 2467 Highway 7 White Cloud, KS 66094	Taylor EXP 47-90	4.7	Xtend	CruiserMaxx
	Taylor EXP 48-80	4.8	Xtend	CruiserMaxx

SOYBEAN TEST LOCATIONS



- LMCRS** - Lon Mann Cotton Research Station, Marianna, Arkansas
- NEREC** - Northeast Research and Extension Center, Keiser, Arkansas
- PTRS** - Pine Tree Research Station, Colt, Arkansas
- RREC** - Rice Research and Extension Center, Stuttgart, Arkansas
- RRS** - Rohwer Research Station, Rohwer, Arkansas



University of Arkansas System

