

Arkansas

Soybean Performance

Tests 2022



J.F. Carlin • R.B. Mulloy • R.D. Bond

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Photo Credit: Soybean plants grown at the Rice Research and Extension Center in Stuttgart Aug. 4, 2022. University of Arkansas System Division of Agriculture photo by John Lovett.

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Report Statement

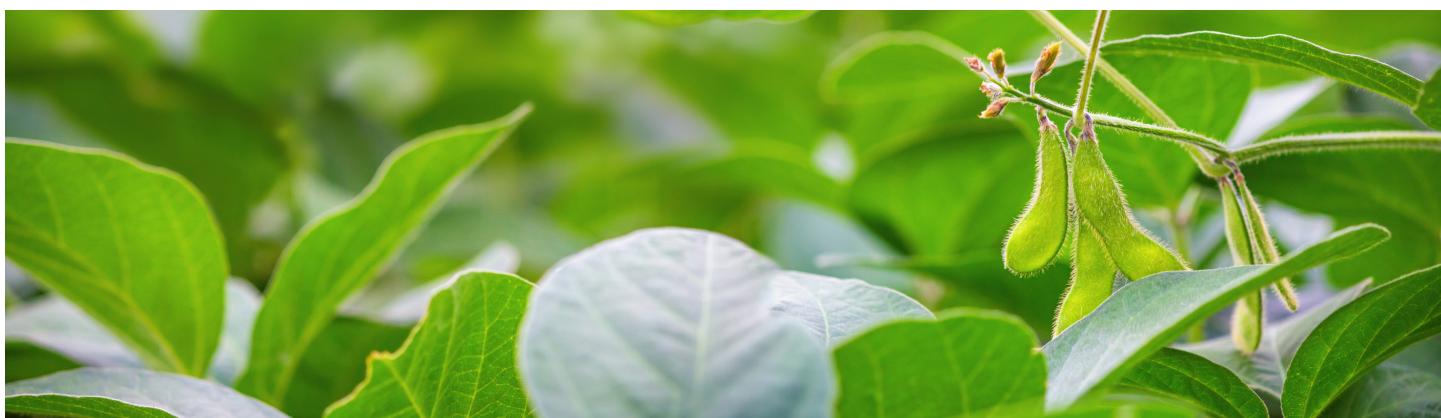
This Arkansas Agricultural Experiment Station (AAES) publication summarizes variety test research conducted by the Arkansas Crop Variety Improvement Program. Variety test information presented here furthers the AAES mission of conducting research that benefits the citizens of Arkansas by expanding agricultural 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 Tests 2022¹

J.F. Carlin,² R.B. Mulloy,² and R.D. Bond²

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

Varieties and strains containing any herbicide technology trait(s) were eligible for entry into two types of tests: early-planted tests and traditional-planted tests. To facilitate field operations and to allow for fairer comparisons between varieties and strains in both types of tests, entries were divided into maturity classes based on information provided by the originating company or institution. Entries in the EPTs were limited to relative maturities of 4.0–4.9 and were tested all together. Entries in the Traditional Planting Tests were divided into three maturity classes: Early maturing group IV, 4.0–4.5, Late maturing group IV, 4.6–4.9, and maturity group V, 5.0–5.9. The 2022 soybean performance tests contained 23 early-planted entries and 154 traditional-planted entries. The 2022 Arkansas Performance tests were conducted at the University of Arkansas System Division of Agriculture's Northeast Research and Extension Center (NEREC) at Keiser, the Vegetable Research Station (VRS) near Kibler, the Lon Mann Cotton Research Station (LMCRS) near Marianna, the Jackson County Extension Center (JCEC) near Newport, 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.

Flood Tolerance Tests were conducted at the PTRS, RRS, and RREC locations. Tests were divided into RM 4.3–4.9 and RM 5.0–5.6. Tests were arranged as a split block design with 3 non-flooded and 3 flooded replications. The flood treatment was applied at vegetative growth stage 2–4 (V2–V4) and held for five consecutive

days, and then levees were broken to allow for drainage. For the remainder of the season, tests were managed in a furrow-irrigated production system. Plant heights were recorded at maturity on each replication, and plots were harvested for grain yield.

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). Statistical analysis for grain yield (bu./ac) was conducted using Duncan's Multiple Range Test (MRT) with GENOVIX® (AGRONOMIX Software).

Plots were visually rated for shattering and lodging. Shattering ratings were carried out on border rows according to the following scale:

- | | |
|-------------------|--------------------------|
| 1. No shattering | 4. 9–19% shattered |
| 2. 1–3% shattered | 5. 20% or more shattered |
| 3. 4–8% shattered | |

Lodging ratings were typically recorded on a scale from 1 to 5 based on the following criteria:

1. Almost all plants erect.
2. Either all plants leaning slightly, or a few plants down.
3. Either all plants leaning moderately, or 25–50% of the plants down.
4. Either all plants leaning considerably, or 50–80% of the plants down.
5. All plants down badly.

Average plant height was recorded in inches for each plot in the first replication of each test.

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.uada.edu/variety-testing>

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

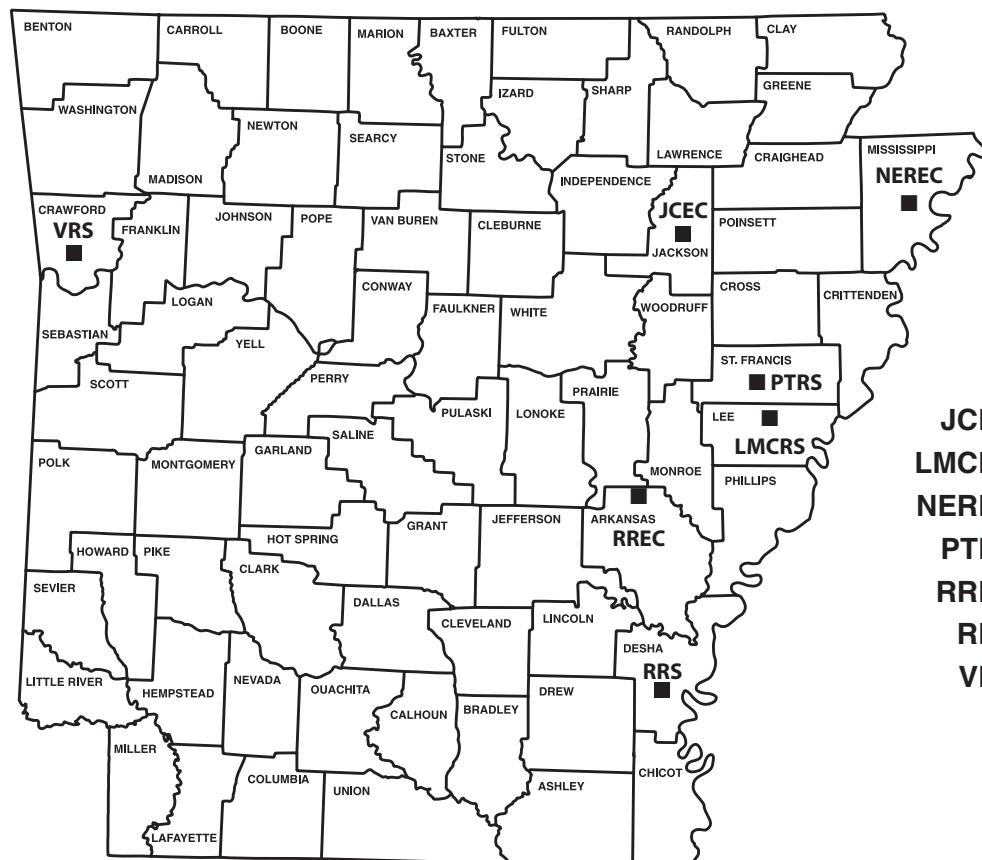
¹ Use of products and trade names in this report does not constitute a guarantee or warranty of the products named and does not signify that those products are approved to the exclusion of comparable products.

² Program Director, Program Technician, and Program Associate, respectively, University of Arkansas System Division of Agriculture, Arkansas Agricultural Experiment Station, Fayetteville.

Table 1. Summary of Arkansas Soybean Performance Testing Locations, 2022.

| Location | Irrigation | Row Spacing (in.) | Soil Texture | Planting Date | Harvest Dates | | |
|-----------------------|----------------------|----------------------|--------------|---|--------------------------|--------|----------------|
| | | | | | Early 4 | Late 4 | MG 5 |
| RREC, Stuttgart, Ark. | Early Planted Trial | Irrigated | Single 30 | Dewitt, silt Loam | 4/11 | 10/10 | • ^a |
| NEREC, Keiser, Ark. | Traditional Planting | Irrigated | Single 38 | Sharkey, silty clay | 5/13 & 5/18 ^a | 10/7 | 10/19 |
| VRS, Alma, Ark. | Traditional Planting | Irrigated | Twin 36 | Dardanelle, silt loam | 5/31 | 10/20 | 10/21 |
| LMCRS, Marianna, Ark. | Traditional Planting | Irrigated | Single 38 | Loring, silt loam | 5/10 | 10/6 | 10/19 |
| JCEC, Newport, Ark. | Traditional Planting | Irrigated | Single 30 | Dexter, silt loam/Bosket, fine sandy loam | 5/31 | 10/11 | 10/14 |
| PTRS, Colt, Ark. | Traditional Planting | Irrigated | Single 30 | Calhoun, silt loam | 5/11 | 10/1 | 10/7 |
| RRS, Rohwer, Ark. | Traditional Planting | Irrigated | Single 38 | Sharkey, Desha silt loam | 5/3 | 10/6 | 10/12 |
| RREC, Stuttgart, Ark. | Traditional Planting | Irrigated | Single 30 | Dewitt, silt loam | 5/20 | 10/13 | 10/18 |
| RREC, Stuttgart, Ark. | Traditional Planting | Dryland | Single 30 | Dewitt, silt loam | 5/20 | 10/5 | 10/5 |

^a For the Early Planted Test (EPT), only maturity group IV soybean cultivars are eligible for comparison eliminating a means for further maturity group breakdown.



Test Locations 2022

- JCEC - Jackson County Extension Center, Newport
- LMCRS - Lon Mann Cotton Research Station, Marianna
- NEREC - Northeast Research and Extension Center, Keiser
- PTRS - Pine Tree Research Station, Colt
- RREC - Rice Research and Extension Center, Stuttgart
- RRS - Rohwer Research Station, Rohwer
- VRS - Vegetable Research Station, Kibler

Table 2. Yields of Early Planted Maturity Group IV Soybean Cultivars in Arkansas Performance Tests, Stuttgart, Ark., 2022.^a

| Variety/Experimental Line | Herbicide Technology | Relative Maturity | Stuttgart ^b (bu./ac) |
|---|------------------------------|-------------------|------------------------------------|
| AG45XF3 | XtendFlex | 4.2 | 90.4 |
| AG46XF3 | XtendFlex/SR | 4.6 | 87.7 |
| AG47XF3 | XtendFlex/SR | 4.7 | 90.1 |
| AG48XF3 | XtendFlex/SR | 4.8 | 95.2 |
| AG49XF3 | XtendFlex | 4.9 | 80.9 |
| Dyna-Gro S42XF93S | XtendFlex | 4.2 | 77.2 |
| Dyna-Gro S43XS70 | Xtend/STS | 4.3 | 82.5 |
| Progeny P4200RXS | RXS | 4.2 | 89.1 |
| Progeny P4202XFS | XFS | 4.2 | 87.5 |
| Progeny P4444RXS | RXS | 4.4 | 80.3 |
| Progeny P4505RXS | RXS | 4.5 | 83.7 |
| Progeny P4521XFS | XFS | 4.5 | 87.3 |
| Progeny P4604XFS | XFS | 4.6 | 86.4 |
| Progeny P4691XFS | XFS | 4.6 | 84.9 |
| Progeny P4732XF | XF | 4.7 | 88.7 |
| Progeny P4775E3S | Enlist E3S | 4.7 | 91.2 |
| Progeny P4798XF | XF | 4.7 | 91.2 |
| Progeny P4806XFS | XFS | 4.8 | 78.3 |
| Progeny P4821RX | RX | 4.8 | 86.4 |
| Progeny P4951XFS | XFS | 4.9 | 88.2 |
| R18-14147 | Conv. | 4.6 | 76.0 |
| R18C-11737 | Conv. | 4.3 | 72.2 |
| R19C-1012 | Conv. | 4.4 | 83.5 |
| | | | Grand Mean |
| | | | 84.9 |
| | | | LSD |
| | | | 7.7 |
| | | | C.V. |
| | | | 6.6 |
| To be only used when comparing within Non-Xtend varieties | LSD (Non-Xtend) ^c | | 7.5 |
| To be only used when comparing within Xtend varieties | LSD (Xtend) ^d | | 7.4 |

^a Stuttgart = Rice Research and Extension Center, Stuttgart, Ark.^b Non-Xtend soybean varieties showed symptoms consistent with injury attributed to off-target movement of dicamba.^c Analysis of variance of Non-Xtend varieties (Conv., Enlist E3).^d Analysis of variance of Xtend varieties (Xtend, XtendFlex)**Table 3. Preliminary Yields of Non-Xtend Early Planted Maturity Group IV Soybean Cultivars in Arkansas Performance Tests, Stuttgart, Ark., 2022.^a**

| Variety/Experimental Line | Herbicide Technology | Relative Maturity | Stuttgart ^b (bu./ac) |
|---------------------------|----------------------|-------------------|------------------------------------|
| Progeny P4775E3S | Enlist E3S | 4.7 | 91.2 |
| R18-14147 | Conv. | 4.6 | 76.0 |
| R18C-11737 | Conv. | 4.3 | 72.2 |
| R19C-1012 | Conv. | 4.4 | 83.5 |
| | | | Grand Mean |
| | | | 82.3 |
| | | | LSD |
| | | | 7.5 |
| | | | C.V. |
| | | | 6.2 |

^a Stuttgart = Rice Research and Extension Center, Stuttgart, Ark.^b Non-Xtend soybean varieties showed symptoms consistent with injury attributed to off-target movement of dicamba.

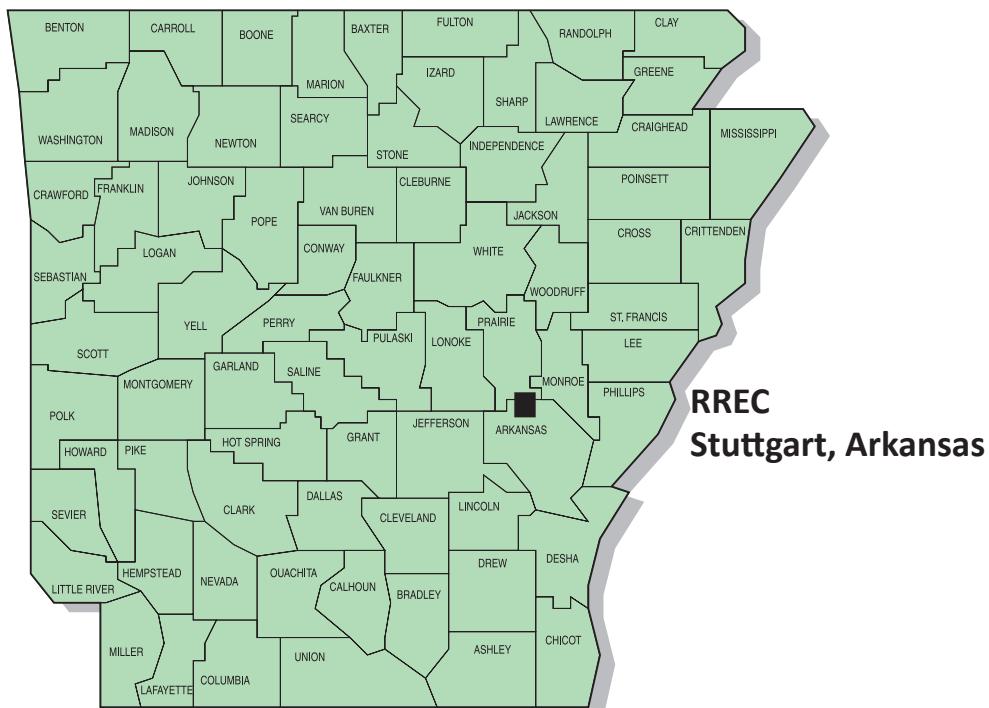
Table 4. Preliminary Yields of Xtend Early Planted Maturity Group IV Soybean Cultivars in Arkansas Performance Tests, Stuttgart, Ark., 2022.^a

| Variety/Experimental Line | Herbicide Technology | Relative Maturity | Stuttgart (bu./ac) |
|---------------------------|----------------------|-------------------|-----------------------|
| AG46XF3 | XtendFlex/SR | 4.6 | 87.7 |
| AG47XF3 | XtendFlex/SR | 4.7 | 90.1 |
| AG48XF3 | XtendFlex/SR | 4.8 | 95.2 |
| AG49XF3 | XtendFlex | 4.9 | 80.9 |
| Dyna-Gro S42XF93S | XtendFlex | 4.2 | 77.2 |
| Dyna-Gro S43XS70 | Xtend/STS | 4.3 | 82.5 |
| Progeny P4200RXS | RXS | 4.2 | 89.1 |
| Progeny P4202XFS | XFS | 4.2 | 87.5 |
| Progeny P4444RXS | RXS | 4.4 | 80.3 |
| Progeny P4505RXS | RXS | 4.5 | 83.7 |
| Progeny P4521XFS | XFS | 4.5 | 87.3 |
| Progeny P4604XFS | XFS | 4.6 | 86.4 |
| Progeny P4691XFS | XFS | 4.6 | 84.9 |
| Progeny P4732XF | XF | 4.7 | 88.7 |
| Progeny P4798XF | XF | 4.7 | 91.2 |
| Progeny P4806XFS | XFS | 4.8 | 78.3 |
| Progeny P4821RX | RX | 4.8 | 86.4 |
| Progeny P4951XFS | XFS | 4.9 | 88.2 |
| | | | Grand Mean |
| | | | LSD |
| | | | C.V. |

^aStuttgart = Rice Research and Extension Center, Stuttgart, Ark.

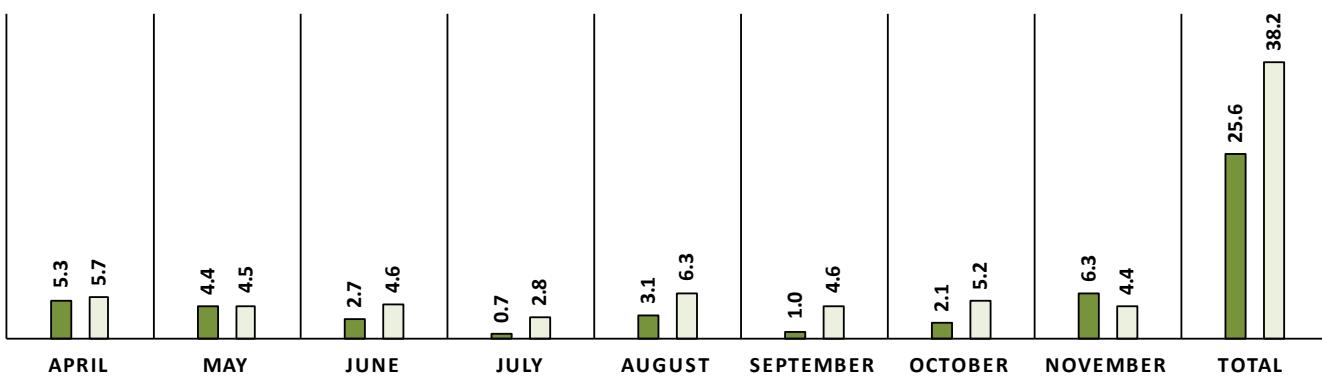
Stuttgart: Rice Research and Extension Center (RREC)

Early Planted Irrigated Soybean Varieties and Strains, 2022



2022 STUTTGART MONTHLY PRECIPITATION

■ Observed (in.) □ 10-yr Average (in.)



| Soil Series | |
|--|--|
| Dewitt silt loam | |
| Previous Crop | |
| Soybean | |
| Row Spacing | |
| 30 in. | |
| Planting Date | |
| April 11 | |
| Irrigation Dates | |
| June 18; July 1, 15, 28; Aug. 12; Sept. 2 | |

| Harvest Date | |
|---|------------------------------|
| October 10 | |
| Fertilizer Application(s) | Date |
| 0-70-70 | April 4 |
| Herbicide Application(s) | Date |
| Storm® 1.5 pt/ac Select® 1 pt/ac Flexstar® 1 pt/ac + Storm® 8 oz/ac | May 11 June 15 June 16 |

Table 5. Performance of Early Planted Irrigated Soybean Varieties and Strains, Rice Research and Extension Center, Stuttgart, Ark., 2022.

| Variety/Experimental Line | 2022 (bu./ac) | Maturity Date | Lodging ^a | Plant | | |
|---------------------------|------------------|---------------|----------------------|-----------------|----------------------------|-----------------|
| | | | | Height (in.) | Shatter Score ^b | Moisture (%) |
| AG45XF3 | 90.4 | 9/17 | 1.0 | 32 | 1 | 9.1 |
| AG46XF3 | 87.7 | 9/21 | 1.0 | 31 | 1 | 9.3 |
| AG47XF3 | 90.1 | 9/22 | 1.0 | 38 | 1 | 9.4 |
| AG48XF3 | 95.2 | 9/17 | 1.3 | 35 | 1 | 9.3 |
| AG49XF3 | 80.9 | 9/18 | 1.0 | 38 | 1 | 9.2 |
| Dyna-Gro S42XF93S | 77.2 | 9/14 | 1.7 | 32 | 1 | 9.3 |
| Dyna-Gro S43XS70 | 82.5 | 9/20 | 1.0 | 31 | 1 | 9.1 |
| Progeny P4200RXS | 89.1 | 9/23 | 1.0 | 34 | 1 | 9.6 |
| Progeny P4202XFS | 87.5 | 9/21 | 1.0 | 33 | 1 | 9.0 |
| Progeny P4444RXS | 80.3 | 9/13 | 1.0 | 30 | 1 | 9.2 |
| Progeny P4505RXS | 83.7 | 9/24 | 1.0 | 32 | 1 | 9.5 |
| Progeny P4521XFS | 87.3 | 9/23 | 1.0 | 32 | 1 | 9.2 |
| Progeny P4604XFS | 86.4 | 9/19 | 1.0 | 34 | 1 | 9.0 |
| Progeny P4691XFS | 84.9 | 9/18 | 1.0 | 32 | 2 | 9.4 |
| Progeny P4732XF | 88.7 | 9/21 | 1.0 | 32 | 1 | 9.3 |
| Progeny P4775E3S | 91.2 | 9/19 | 1.3 | 37 | 1 | 9.4 |
| Progeny P4798XF | 91.2 | 9/21 | 1.0 | 34 | 1 | 9.0 |
| Progeny P4806XFS | 78.3 | 9/25 | 1.0 | 33 | 1 | 9.6 |
| Progeny P4821RX | 86.4 | 9/24 | 1.0 | 32 | 1 | 9.4 |
| Progeny P4951XFS | 88.2 | 9/23 | 1.0 | 30 | 1 | 9.2 |
| R18-14147 | 76.0 | 9/17 | 1.0 | 42 | 2 | 9.4 |
| R18C-11737 | 72.2 | 9/16 | 1.0 | 32 | 1 | 9.4 |
| R19C-1012 | 83.5 | 9/17 | 1.3 | 41 | 1 | 9.4 |
| Grand Mean | 84.9 | 9/20 | 1.1 | 33 | • | 9 |
| LSD | 7.7 | 3.0 | 0.3 | 1.7 | • | 0 |
| C.V. | 6.6 | 0.8 | 19.71 | 3.7 | • | 2 |

^a 1 = 10° angle; 2 = 11–20° angle; 3 = 21–30° angle; 4 = 31–40° angle; 5 = 41–50° angle; 6 = 51–60° angle; 7 = 61–70° angle;
8 = 71–80° angle; 9 = 81–90° angle.

^b 1 = no shattering; 2 = 1–3% shattered; 3 = 4–8% shattered; 4 = 9–19% shattered; 5 = 20% or more shattered.

• = data not provided.

Table 6. Yields of Early Maturity Group IV (RM 4.0–4.5) Soybean Varieties and Strains in Arkansas Performance tests, 2022.^a

| Variety/ Experimental Line | Herbicide Technology | Relative Maturity | (bu./ac) | | | | | | | | Stuttgart | |
|-------------------------------|-------------------------|----------------------|----------|--------|----------|---------|-----------|--------|-----------|-------------------|-------------------|--|
| | | | Keiser | Kibler | Marianna | Newport | Pine Tree | Rohwer | Stuttgart | Irrigated Mean | Non- Irrigated | |
| AG45XF3 | XtendFlex | 4.2 | 71.5 | 73.0 | 70.1 | 80.6 | 67.4 | 83.5 | 78.6 | 75.0 | 26.4 | |
| Armor 44-D49 | Xtend | 4.4 | 62.9 | 71.8 | 64.9 | 73.5 | 68.4 | 76.0 | 77.6 | 70.7 | 32.4 | |
| Armor 45-F02 | XtendFlex | 4.5 | 62.3 | 68.9 | 69.2 | 84.7 | 75.2 | 78.7 | 74.5 | 73.4 | 27.2 | |
| Axis 4112XFSTSTS | XtendFlex | 4.1 | 63.3 | 74.5 | 66.3 | 69.0 | 68.6 | 70.1 | 72.5 | 69.2 | 26.4 | |
| Axis 4522XF | XtendFlex | 4.5 | 59.2 | 70.7 | 68.9 | 74.9 | 69.5 | 77.1 | 73.8 | 70.6 | 26.9 | |
| DELTA GROW 44XF41 | XtendFlex | 4.4 | 51.5 | 55.6 | 65.2 | 73.5 | 62.8 | 68.7 | 65.3 | 63.2 | 20.4 | |
| DELTA GROW 45E33 | Enlist | 4.5 | 47.9 | 75.3 | 48.7 | 79.2 | 65.0 | 59.1 | 67.9 | 63.3 | 25.6 | |
| DONMARIO DM45F23 | XtendFlex | 4.5 | 63.4 | 72.7 | 64.8 | 86.1 | 67.4 | 79.5 | 81.4 | 73.6 | 23.8 | |
| Dyna-Gro S41EN72 | Enlist | 4.1 | 53.6 | 63.1 | 52.0 | 79.6 | 55.7 | 55.9 | 74.3 | 62.0 | 22.7 | |
| Dyna-Gro S42XF93S | XtendFlex | 4.2 | 67.3 | 78.1 | 69.5 | 81.8 | 64.7 | 60.3 | 73.0 | 70.7 | 25.0 | |
| Dyna-Gro S43XS70 | Xtend/STS | 4.3 | 63.9 | 80.6 | 68.8 | 78.1 | 70.3 | 67.6 | 77.9 | 72.5 | 25.9 | |
| Dyna-Gro S45ES10 | Enlist/STS | 4.5 | 51.3 | 64.8 | 55.5 | 77.1 | 69.8 | 72.2 | 70.0 | 65.8 | 25.7 | |
| Dyna-Gro S45XF02 | XtendFlex | 4.5 | 61.8 | 73.5 | 63.1 | 79.2 | 67.1 | 62.1 | 75.4 | 68.9 | 24.6 | |
| Eagle Seed ES4120XF | XtendFlex | 4.1 | 65.8 | 66.2 | 68.5 | 72.9 | 57.2 | 70.0 | 75.3 | 68.0 | 18.4 | |
| Innvincis MEX44122XF | XtendFlex | 4.4 | 65.3 | 67.8 | 62.8 | 75.6 | 68.5 | 64.2 | 74.9 | 68.5 | 26.2 | |
| Integra 74142NS | XtendFlex | 4.1 | 64.4 | 68.2 | 62.1 | 71.5 | 62.1 | 44.9 | 76.7 | 64.3 | 22.3 | |
| Integra 74383N | XtendFlex | 4.3 | 58.5 | 72.6 | 65.3 | 66.4 | 66.7 | 63.5 | 77.5 | 67.2 | 25.2 | |
| Revere 4415XF | XtendFlex | 4.4 | 64.7 | 76.9 | 67.0 | 81.3 | 65.6 | 80.2 | 77.0 | 73.2 | 24.0 | |
| Revere 4526XF | XtendFlex | 4.5 | 59.8 | 73.2 | 70.6 | 77.9 | 75.1 | 76.5 | 78.7 | 73.1 | 27.4 | |
| NK42-T5XF | XtendFlex | 4.2 | 67.0 | 79.5 | 65.5 | 81.6 | 71.2 | 68.8 | 75.1 | 72.7 | 22.9 | |
| NK43-V8XF | XtendFlex | 4.3 | 66.6 | 70.1 | 69.3 | 71.7 | 70.1 | 54.7 | 78.9 | 68.8 | 13.2 | |
| NK43-Y9XFS | XtendFlex | 4.3 | 69.1 | 80.7 | 69.6 | 71.6 | 66.9 | 56.7 | 79.2 | 70.5 | 25.9 | |
| NK44-J4XFS | XtendFlex | 4.4 | 73.6 | 74.6 | 65.4 | 85.8 | 72.0 | 72.1 | 75.7 | 74.2 | 15.2 | |
| NK44-Q5E3S | Enlist | 4.4 | 55.0 | 81.5 | 64.0 | 82.0 | 69.8 | 71.9 | 75.3 | 71.4 | 20.9 | |
| NK45-P9XF | XtendFlex | 4.5 | 55.6 | 69.7 | 62.1 | 83.0 | 64.3 | 79.5 | 74.9 | 69.9 | 27.7 | |
| NK45-V9E3 | Enlist | 4.5 | 58.3 | 71.4 | 63.0 | 81.6 | 57.3 | 65.2 | 78.6 | 67.9 | 28.2 | |
| Pioneer P40A36E | Enlist | 4.0 | 52.3 | 75.0 | 40.3 | 71.2 | 66.8 | 60.6 | 72.6 | 62.7 | 24.2 | |
| Pioneer P40A90LX | RR2X Liberty | 4.0 | 64.6 | 69.1 | 64.7 | 77.6 | 64.0 | 66.8 | 78.6 | 69.4 | 23.2 | |
| Pioneer P42A84E | Enlist | 4.2 | 53.0 | 77.2 | 54.7 | 76.7 | 77.7 | 69.4 | 77.4 | 69.4 | 23.9 | |
| Pioneer P44A21X | RR2X | 4.4 | 65.1 | 72.9 | 72.2 | 83.6 | 75.6 | 81.5 | 77.5 | 75.5 | 26.6 | |
| Pioneer P44A91E | Enlist | 4.4 | 53.7 | 71.0 | 50.2 | 74.6 | 70.7 | 56.8 | 69.8 | 63.8 | 18.1 | |
| Pioneer P45A40LX | RR2X Liberty | 4.5 | 58.0 | 80.2 | 59.5 | 67.3 | 63.2 | 65.0 | 62.3 | 65.1 | 23.7 | |
| Pioneer P45A79E | Enlist | 4.5 | 58.0 | 71.1 | 58.5 | 76.4 | 72.3 | 71.0 | 73.9 | 68.7 | 20.5 | |

Continued

Table 6. Yields of Early Maturity Group IV (RM 4.0–4.5) Soybean Varieties and Strains in Arkansas Performance tests, 2022, Continued.^a

| Variety/ Experimental Line | Herbicide Technology | Relative Maturity | (bu./ac) | | | | | | | | Irrigated Mean | Non- Irrigated | Stuttgart |
|---|------------------------------|----------------------|------------|--------|----------|---------|-----------|--------|-----------|------|-------------------|-------------------|-----------|
| | | | Keiser | Kibler | Marianna | Newport | Pine Tree | Rohwer | Stuttgart | | | | |
| Progeny P4200RXS | RXS | 4.2 | 65.3 | 70.9 | 65.5 | 83.5 | 69.3 | 70.9 | 79.9 | 72.2 | 27.1 | | |
| Progeny P4202XFS | XFS | 4.2 | 58.8 | 76.8 | 63.3 | 83.2 | 68.2 | 67.7 | 77.6 | 70.8 | 24.9 | | |
| Progeny P4431E3 | Enlist E3 | 4.4 | 55.7 | 62.1 | 50.6 | 65.1 | 65.4 | 58.9 | 66.3 | 60.6 | 13.3 | | |
| Progeny P4444RXS | RXS | 4.4 | 59.8 | 62.9 | 65.1 | 82.0 | 70.8 | 68.5 | 70.7 | 68.5 | 25.7 | | |
| Progeny P4505RXS | RXS | 4.5 | 67.2 | 77.5 | 67.7 | 85.0 | 67.2 | 63.9 | 84.0 | 73.2 | 28.1 | | |
| Progeny P4521XFS | XFS | 4.5 | 62.5 | 71.6 | 65.1 | 79.7 | 72.4 | 70.8 | 73.9 | 70.9 | 25.1 | | |
| R18C-11737 | Conv. | 4.3 | 50.0 | 56.1 | 53.3 | 71.6 | 55.8 | 56.5 | 64.2 | 58.2 | 20.8 | | |
| R19C-1012 | Conv. | 4.4 | 46.7 | 68.5 | 52.0 | 68.4 | 61.2 | 72.6 | 70.0 | 62.8 | 24.7 | | |
| | | | GRAND MEAN | 60.3 | 71.7 | 62.6 | 77.4 | 67.3 | 68.0 | 74.6 | 68.9 | 24.0 | |
| | | | LSD (5%) | 6.0 | 10.8 | 4.8 | 9.1 | 6.5 | 12.3 | 4.8 | 3.0 | 3.2 | |
| | | | C.V. | 7.3 | 11.1 | 5.7 | 8.6 | 7.1 | 13.3 | 4.7 | 8.8 | 9.7 | |
| Used only when comparing w/in Non-Xtend varieties | LSD (Non-Xtend) ^b | | 5.9 | 11.1 | 4.9 | 7.0 | 7.8 | 15.5 | 3.7 | • | | 2.7 | |
| Used only when comparing w/in Xtend varieties | LSD (Xtend) ^c | | 6.2 | 11.1 | 4.9 | 9.9 | 6.2 | 11.1 | 5.2 | • | | 3.2 | |

^a Keiser = Northeast Research and Extension Center, Keiser, Ark.; Kibler = Vegetable Research Station, Alma, Ark.; Marianna = Lon Mann Cotton Research Station, Marianna, Ark.; Newport = Jackson County Extension Center, Newport, Ark.; Pine Tree = Pine Tree Research Station, Colt, Ark.; Rohwer = Rohwer Research Station, Rohwer, Ark.; Stuttgart = Rice Research and Extension Center, Stuttgart, Ark.; Stuttgart Non-Irrigated = Rice Research and Extension Center, Stuttgart, Ark.

^b Analysis of variance of Non-Xtend varieties (Conv., Enlist, STS, Enlist E3).

^c Analysis of variance of Xtend varieties (RR2X, Xtend, XtendFlex).

• = data not provided.

Table 7. Yields of Non-Xtend Early Maturity Group IV (RM 4.0–4.5) Soybean Varieties and Strains in Arkansas Performance tests, 2022.^a

| Variety/ Experimental Line | Herbicide Technology | Relative Maturity | Keiser | Kibler | Marianna | Newport | Pine Tree | Rohwer | Stuttgart | Stuttgart Non- Irrigated |
|-------------------------------|-------------------------|----------------------|--------|--------|----------|---------|-----------|--------|-----------|--------------------------------|
| (bu./ac) | | | | | | | | | | |
| DELTA GROW 45E33 | Enlist | 4.5 | 47.9 | 75.3 | 48.7 | 79.2 | 65.0 | 59.1 | 67.9 | 25.6 |
| Dyna-Gro S41EN72 | Enlist | 4.1 | 53.6 | 63.1 | 52.0 | 79.6 | 55.7 | 55.9 | 74.3 | 22.7 |
| Dyna-Gro S45ES10 | Enlist/STS | 4.5 | 51.3 | 64.8 | 55.5 | 77.1 | 69.8 | 72.2 | 70.0 | 25.7 |
| NK44-Q5E3S | Enlist | 4.4 | 55.0 | 81.5 | 64.0 | 82.0 | 69.8 | 71.9 | 75.3 | 20.9 |
| NK45-V9E3 | Enlist | 4.5 | 58.3 | 71.4 | 63.0 | 81.6 | 57.3 | 65.2 | 78.6 | 28.2 |
| Pioneer P40A36E | Enlist | 4.0 | 52.3 | 75.0 | 40.3 | 71.2 | 66.8 | 60.6 | 72.6 | 24.2 |
| Pioneer P42A84E | Enlist | 4.2 | 53.0 | 77.2 | 54.7 | 76.7 | 77.7 | 69.4 | 77.4 | 23.9 |
| Pioneer P44A91E | Enlist | 4.4 | 53.7 | 71.0 | 50.2 | 74.6 | 70.7 | 56.8 | 69.8 | 18.1 |
| Pioneer P45A79E | Enlist | 4.5 | 58.0 | 71.1 | 58.5 | 76.4 | 72.3 | 71.0 | 73.9 | 20.5 |
| Progeny P4431E3 | Enlist E3 | 4.4 | 55.7 | 62.1 | 50.6 | 65.1 | 65.4 | 58.9 | 66.3 | 13.3 |
| R18C-11737 | Conv. | 4.3 | 50.0 | 56.1 | 53.3 | 71.6 | 55.8 | 56.5 | 64.2 | 20.8 |
| R19C-1012 | Conv. | 4.4 | 46.7 | 68.5 | 52.0 | 68.4 | 61.2 | 72.6 | 70.0 | 24.7 |
| GRAND MEAN | | | 53.0 | 69.8 | 53.6 | 75.3 | 65.6 | 64.2 | 71.7 | 22.4 |
| LSD (5%) | | | 5.9 | 11.1 | 4.9 | 7.0 | 7.8 | 15.5 | 3.7 | 2.7 |
| C.V. | | | 8.0 | 11.3 | 6.5 | 6.6 | 8.5 | 17.2 | 3.7 | 8.5 |

^a Keiser = Northeast Research and Extension Center, Keiser, Ark.; Kibler = Vegetable Research Station, Alma, Ark.; Marianna = Lon Mann Cotton Research Station, Marianna, Ark.; Newport = Jackson County Extension Center, Newport, Ark.; Pine Tree = Pine Tree Research Station, Colt, Ark.; Rohwer = Rohwer Research Station, Rohwer, Ark.; Stuttgart = Rice Research and Extension Center, Stuttgart, Ark.; Stuttgart Non-Irrigated = Rice Research and Extension Center, Stuttgart, Ark.

Table 8. Yields of Xtend Early Maturity Group IV (RM 4.0–4.5) Soybean Varieties and Strains in Arkansas Performance tests, 2022.^a

| Variety/ Experimental Line | Herbicide Technology | Relative Maturity | (bu./ac) | | | | | | | | Stuttgart | Non- Irrigated |
|-------------------------------|-------------------------|----------------------|------------|--------|----------|---------|-----------|--------|-----------|------|-----------|-------------------|
| | | | Keiser | Kibler | Marianna | Newport | Pine Tree | Rohwer | Stuttgart | | | |
| AG45XF3 | XtendFlex | 4.2 | 71.5 | 73.0 | 70.1 | 80.6 | 67.4 | 83.5 | 78.6 | 26.4 | | |
| Armor 44-D49 | Xtend | 4.4 | 62.9 | 71.8 | 64.9 | 73.5 | 68.4 | 76.0 | 77.6 | 32.4 | | |
| Armor 45-F02 | XtendFlex | 4.5 | 62.3 | 68.9 | 69.2 | 84.7 | 75.2 | 78.7 | 74.5 | 27.2 | | |
| Axis 4112XFSTS | XtendFlex | 4.1 | 63.3 | 74.5 | 66.3 | 69.0 | 68.6 | 70.1 | 72.5 | 26.4 | | |
| Axis 4522XF | XtendFlex | 4.5 | 59.2 | 70.7 | 68.9 | 74.9 | 69.5 | 77.1 | 73.8 | 26.9 | | |
| DELTA GROW 44XF41 | XtendFlex | 4.4 | 51.5 | 55.6 | 65.2 | 73.5 | 62.8 | 68.7 | 65.3 | 20.4 | | |
| DONMARIO DM45F23 | XtendFlex | 4.5 | 63.4 | 72.7 | 64.8 | 86.1 | 67.4 | 79.5 | 81.4 | 23.8 | | |
| Dyna-Gro S42XF93S | XtendFlex | 4.0 | 67.3 | 78.1 | 69.5 | 81.8 | 64.7 | 60.3 | 73.0 | 25.0 | | |
| Dyna-Gro S43XS70 | Xtend/STS | 4.3 | 63.9 | 80.6 | 68.8 | 78.1 | 70.3 | 67.6 | 77.9 | 25.9 | | |
| Dyna-Gro S45XF02 | XtendFlex | 4.5 | 61.8 | 73.5 | 63.1 | 79.2 | 67.1 | 62.1 | 75.4 | 24.6 | | |
| Eagle Seed ES4120XF | XtendFlex | 4.1 | 65.8 | 66.2 | 68.5 | 72.9 | 57.2 | 70.0 | 75.3 | 18.4 | | |
| Innvictis MEX44122XF | XtendFlex | 4.4 | 65.3 | 67.8 | 62.8 | 75.6 | 68.5 | 64.2 | 74.9 | 26.2 | | |
| Integra 74142NS | XtendFlex | 4.1 | 64.4 | 68.2 | 62.1 | 71.5 | 62.1 | 44.9 | 76.7 | 22.3 | | |
| Integra 74383N | XtendFlex | 4.3 | 58.5 | 72.6 | 65.3 | 66.4 | 66.7 | 63.5 | 77.5 | 25.2 | | |
| NK42-T5XF | XtendFlex | 4.2 | 67.0 | 79.5 | 65.5 | 81.6 | 71.2 | 68.8 | 75.1 | 22.9 | | |
| NK43-V8XF | XtendFlex | 4.3 | 66.6 | 70.1 | 69.3 | 71.7 | 70.1 | 54.7 | 78.9 | 13.2 | | |
| NK43-Y9XFS | XtendFlex | 4.3 | 69.1 | 80.7 | 69.6 | 71.6 | 66.9 | 56.7 | 79.2 | 25.9 | | |
| NK44-J4XFS | XtendFlex | 4.4 | 73.6 | 74.6 | 65.4 | 85.8 | 72.0 | 72.1 | 75.7 | 15.2 | | |
| NK45-P9XF | XtendFlex | 4.5 | 55.6 | 69.7 | 62.1 | 83.0 | 64.3 | 79.5 | 74.9 | 27.7 | | |
| Pioneer P40A90LX | RR2X Liberty | 4.0 | 64.6 | 69.1 | 64.7 | 77.6 | 64.0 | 66.8 | 78.6 | 23.2 | | |
| Pioneer P44A21X | RR2X | 4.4 | 65.1 | 72.9 | 72.2 | 83.6 | 75.6 | 81.5 | 77.5 | 26.6 | | |
| Pioneer P45A40LX | RR2X Liberty | 4.5 | 58.0 | 80.2 | 59.5 | 67.3 | 63.2 | 65.0 | 62.3 | 23.7 | | |
| Progeny P4200RXS | RXS | 4.2 | 65.3 | 70.9 | 65.5 | 83.5 | 69.3 | 70.9 | 79.9 | 27.1 | | |
| Progeny P4202XFS | XFS | 4.2 | 58.8 | 76.8 | 63.3 | 83.2 | 68.2 | 67.7 | 77.6 | 24.9 | | |
| Progeny P4444RXS | RXS | 4.4 | 59.8 | 62.9 | 65.1 | 82.0 | 70.8 | 68.5 | 70.7 | 25.7 | | |
| Progeny P4505RXS | RXS | 4.5 | 67.2 | 77.5 | 67.7 | 85.0 | 67.2 | 63.9 | 84.0 | 28.1 | | |
| Progeny P4521XFS | XFS | 4.5 | 62.5 | 71.6 | 65.1 | 79.7 | 72.4 | 70.8 | 73.9 | 25.1 | | |
| Revere 4415XF | XtendFlex | 4.4 | 64.7 | 76.9 | 67.0 | 81.3 | 65.6 | 80.2 | 77.0 | 24.0 | | |
| Revere 4526XF | XtendFlex | 4.5 | 59.8 | 73.2 | 70.6 | 77.9 | 75.1 | 76.5 | 78.7 | 27.4 | | |
| | | | GRAND MEAN | 63.4 | 72.5 | 66.3 | 78.0 | 68.0 | 69.3 | 75.8 | 24.5 | |
| | | | LSD (5%) | 6.2 | 11.1 | 4.9 | 9.9 | 6.2 | 11.1 | 5.2 | 3.2 | |
| | | | C.V. | 7.2 | 11.2 | 5.4 | 9.3 | 6.7 | 11.7 | 5.1 | 9.5 | |

^a Keiser = Northeast Research and Extension Center, Keiser, Ark.; Kibler = Vegetable Research Station, Alma, Ark.; Marianna = Lon Mann Cotton Research Station, Marianna, Ark.; Newport = Jackson County Extension Center, Newport, Ark.; Pine Tree = Pine Tree Research Station, Colt, Ark.; Rohwer = Rohwer Research Station, Rohwer, Ark.; Stuttgart = Rice Research and Extension Center, Stuttgart, Ark.; Stuttgart Non-Irrigated = Rice Research and Extension Center, Stuttgart, Ark.

Table 9. Yields of Late Maturity Group IV (RM 4.6–4.9) Soybean Varieties and Strains in Arkansas Performance tests, 2022.^a

| Variety/ Experimental Line | Herbicide Technology | Relative Maturity | (bu./ac) | | | | | | | | Irrigated Mean | Stuttgart Non- Irrigated |
|-------------------------------|-------------------------|----------------------|----------|--------|----------|---------|-----------|--------|-----------|------|-------------------|--------------------------------|
| | | | Keiser | Kibler | Marianna | Newport | Pine Tree | Rohwer | Stuttgart | | | |
| AG46XF3 | XtendFlex/SR | 4.6 | 74.4 | 87.9 | 70.2 | 78.6 | 67.2 | 79.3 | 72.2 | 75.7 | 29.6 | |
| AG47XF3 | XtendFlex/SR | 4.7 | 59.0 | 74.3 | 67.2 | 77.1 | 64.1 | 72.6 | 72.1 | 69.5 | 26.9 | |
| AG48XF3 | XtendFlex/SR | 4.8 | 60.5 | 78.7 | 68.1 | 86.7 | 67.6 | 79.2 | 77.7 | 74.1 | 28.1 | |
| AG49XF3 | XtendFlex | 4.9 | 62.4 | 87.4 | 65.6 | 89.6 | 62.2 | 72.0 | 74.0 | 73.3 | 27.8 | |
| Armor 46-F13 | XtendFlex | 4.6 | 61.9 | 73.6 | 70.9 | 85.0 | 64.8 | 58.9 | 74.7 | 70.0 | 29.5 | |
| Armor 46-F96 | XtendFlex | 4.6 | 68.3 | 68.3 | 77.1 | 93.0 | 64.4 | 69.6 | 70.3 | 73.0 | 28.6 | |
| Armor 48-D25 | Xtend | 4.8 | 66.0 | 73.3 | 73.4 | 83.3 | 65.6 | 85.6 | 70.2 | 73.9 | 28.9 | |
| Armor 48-F22 | XtendFlex | 4.8 | 61.1 | 66.7 | 69.2 | 86.7 | 68.1 | 63.7 | 74.0 | 69.9 | 30.2 | |
| Armor 49-F37 | XtendFlex | 4.9 | 65.2 | 75.0 | 67.7 | 86.4 | 67.8 | 61.6 | 70.5 | 70.6 | 26.6 | |
| Axis 4613XF | XtendFlex | 4.6 | 62.5 | 75.4 | 73.0 | 91.1 | 65.7 | 68.5 | 71.3 | 72.5 | 26.1 | |
| Axis 4641XFS | XtendFlex | 4.6 | 61.7 | 73.5 | 74.5 | 84.6 | 63.7 | 74.2 | 69.2 | 71.6 | 32.2 | |
| Axis 4813XFS | XtendFlex | 4.8 | 62.4 | 75.2 | 66.2 | 86.9 | 62.6 | 63.5 | 78.1 | 70.7 | 26.5 | |
| DELTA GROW 46E10 | Enlist | 4.6 | 50.4 | 55.8 | 63.8 | 77.4 | 60.8 | 50.2 | 72.3 | 61.5 | 18.8 | |
| DELTA GROW 46X65/STS | Xtend | 4.6 | 67.3 | 77.1 | 73.9 | 91.2 | 66.3 | 77.0 | 70.6 | 74.8 | 28.5 | |
| DELTA GROW 46XF18 | XtendFlex | 4.6 | 68.0 | 74.8 | 75.3 | 83.6 | 65.1 | 69.7 | 81.9 | 74.1 | 27.3 | |
| DELTA GROW 47E20/STS | Enlist E3 | 4.7 | 49.7 | 68.8 | 50.2 | 78.1 | 60.9 | 72.3 | 65.5 | 63.6 | 26.1 | |
| DELTA GROW 47E35/STS | Enlist E3 | 4.7 | 46.5 | 71.0 | 68.2 | 82.6 | 61.5 | 48.8 | 62.6 | 63.0 | 23.0 | |
| DELTA GROW 48E49/STS | Enlist | 4.8 | 52.8 | 72.6 | 62.6 | 76.9 | 64.6 | 59.1 | 72.7 | 65.9 | 28.1 | |
| DELTA GROW 48E59 | Enlist E3 | 4.8 | 53.1 | 76.3 | 69.1 | 89.9 | 68.7 | 66.9 | 64.5 | 69.8 | 28.6 | |
| DELTA GROW 48E60 | Enlist | 4.8 | 54.9 | 78.7 | 67.9 | 84.0 | 65.6 | 63.4 | 67.9 | 68.9 | 28.4 | |
| DELTA GROW 48X45 | Xtend | 4.8 | 62.9 | 71.1 | 73.9 | 87.8 | 69.0 | 67.9 | 76.9 | 72.8 | 29.4 | |
| DELTA GROW 48XF33/STS | XtendFlex/STS | 4.8 | 64.7 | 70.7 | 67.6 | 86.1 | 67.0 | 71.6 | 61.4 | 69.9 | 27.6 | |
| DELTA GROW 49E80 | Enlist | 4.9 | 52.0 | 80.2 | 71.2 | 80.1 | 63.4 | 59.9 | 69.7 | 68.1 | 27.5 | |
| DELTA GROW 49XF29/STS | XtendFlex | 4.9 | 60.3 | 72.4 | 59.2 | 81.1 | 65.9 | 63.0 | 73.5 | 67.9 | 23.7 | |
| DONMARIO DM48F53 | XtendFlex | 4.8 | 70.3 | 78.0 | 72.3 | 91.9 | 69.6 | 72.0 | 51.8 | 72.3 | 30.3 | |
| Dyna-Gro S46ES91 | Enlist/STS | 4.6 | 51.0 | 68.5 | 61.3 | 80.5 | 57.1 | 72.2 | 66.7 | 65.4 | 27.7 | |
| Dyna-Gro S46XF31S | XtendFlex | 4.6 | 63.5 | 71.9 | 74.8 | 89.7 | 61.1 | 65.1 | 77.5 | 71.9 | 30.0 | |
| Dyna-Gro S46XS60 | Xtend/STS | 4.6 | 66.1 | 73.4 | 73.8 | 84.2 | 73.2 | 77.2 | 66.9 | 73.5 | 28.4 | |
| Dyna-Gro S47XF23S | XtendFlex | 4.7 | 71.3 | 78.1 | 77.1 | 87.4 | 67.2 | 72.7 | 61.6 | 73.6 | 28.7 | |
| Dyna-Gro S47XF52 | XtendFlex | 4.7 | 55.5 | 63.7 | 58.1 | 79.0 | 54.9 | 60.6 | 71.5 | 63.3 | 28.8 | |
| Dyna-Gro S49EN12 | Enlist E3 | 4.6 | 48.2 | 74.1 | 59.7 | 81.4 | 60.4 | 66.5 | 67.7 | 65.4 | 22.4 | |
| Dyna-Gro S49XF82S | XtendFlex/STS | 4.9 | 60.8 | 72.1 | 66.4 | 86.0 | 63.0 | 66.2 | 73.7 | 69.7 | 26.7 | |
| Eagle Seed ES4875XF | XtendFlex | 4.8 | 66.1 | 70.8 | 78.7 | 78.4 | 60.8 | 60.0 | 77.2 | 70.3 | 25.6 | |
| Innvincit MEX46332XF | XtendFlex | 4.6 | 66.4 | 78.0 | 71.2 | 83.0 | 66.6 | 63.1 | 81.8 | 72.9 | 24.8 | |
| Innvincit MEX49992XF | XtendFlex | 4.9 | 64.4 | 80.3 | 67.4 | 90.1 | 63.1 | 73.4 | 62.5 | 71.6 | 31.5 | |

Continued

Table 9. Yields of Late Maturity Group IV (RM 4.6–4.9) Soybean Varieties and Strains in Arkansas Performance tests, 2022, Continued.^a

| Variety/ Experimental Line | Herbicide Technology | Relative Maturity | (bu./ac) | | | | | | | | Irrigated Mean | Stuttgart Non- Irrigated |
|-------------------------------|-------------------------|----------------------|----------|--------|----------|---------|-----------|--------|-----------|------|-------------------|--------------------------------|
| | | | Keiser | Kibler | Marianna | Newport | Pine Tree | Rohwer | Stuttgart | | | |
| Integra 54660NS | Xtend | 4.6 | 69.2 | 85.7 | 71.5 | 92.6 | 73.2 | 80.7 | 64.8 | 76.8 | 29.5 | |
| Integra 54891NS | Xtend | 4.8 | 68.1 | 80.2 | 72.4 | 85.1 | 65.8 | 64.2 | 77.6 | 73.3 | 24.8 | |
| Integra 74621NS | XtendFlex | 4.6 | 65.5 | 78.2 | 74.9 | 82.8 | 66.6 | 71.0 | 78.6 | 73.9 | 30.7 | |
| Integra 74731NS | XtendFlex | 4.7 | 66.3 | 65.7 | 74.1 | 80.2 | 59.1 | 64.8 | 48.4 | 65.5 | 29.0 | |
| Integra 74893NS | XtendFlex | 4.8 | 65.8 | 87.2 | 67.2 | 83.3 | 68.7 | 73.4 | 67.1 | 73.2 | 27.8 | |
| Innotech 4737E3 | Enlist | 4.7 | 47.2 | 64.3 | 69.2 | 84.4 | 60.5 | 65.3 | 63.0 | 64.9 | 29.5 | |
| Innotech 4918E3 | Enlist | 4.9 | 48.1 | 65.3 | 55.8 | 79.0 | 57.8 | 64.9 | 61.3 | 61.7 | 21.2 | |
| Revere 4606XFS | XtendFlex/STS | 4.6 | 62.3 | 77.2 | 67.0 | 81.1 | 67.8 | 73.8 | 74.9 | 72.0 | 29.9 | |
| Revere 4727XF | XtendFlex | 4.7 | 64.7 | 73.2 | 71.6 | 86.5 | 69.8 | 69.2 | 83.5 | 74.1 | 27.9 | |
| Revere 4795XS | RR2Xtend/STS | 4.7 | 65.5 | 79.9 | 76.1 | 88.9 | 66.7 | 78.5 | 73.7 | 75.6 | 30.1 | |
| Revere 4806XS | Xtend/STS | 4.8 | 66.6 | 76.0 | 72.0 | 79.7 | 68.1 | 77.5 | 73.0 | 73.3 | 28.7 | |
| Revere 4826XFS | XtendFlex/STS | 4.8 | 69.5 | 80.8 | 73.5 | 82.3 | 65.0 | 80.8 | 78.4 | 75.7 | 28.5 | |
| Revere 4925XF | XtendFlex | 4.9 | 63.3 | 79.7 | 65.9 | 84.9 | 67.3 | 67.3 | 68.5 | 71.0 | 31.0 | |
| NK47-Z1XF | XtendFlex | 4.7 | 63.3 | 72.9 | 69.8 | 82.3 | 65.3 | 78.0 | 76.8 | 72.6 | 32.0 | |
| NK48-H3XFS | XtendFlex | 4.8 | 70.0 | 81.6 | 80.3 | 92.2 | 67.0 | 76.1 | 65.7 | 76.1 | 26.5 | |
| NK49-T6E3S | Enlist | 4.9 | 50.4 | 75.9 | 64.2 | 86.9 | 64.4 | 69.2 | 69.0 | 68.6 | 28.4 | |
| PL2E472 | Enlist E3 | 4.7 | 53.3 | 71.8 | 69.2 | 83.8 | 70.6 | 65.0 | 79.9 | 70.5 | 28.1 | |
| Pioneer P46A20LX | RR2X Liberty | 4.6 | 70.4 | 87.9 | 70.2 | 81.9 | 67.2 | 79.3 | 77.2 | 72.6 | 28.5 | |
| Pioneer P47A64X | RR2X | 4.7 | 69.9 | 84.0 | 76.6 | 90.4 | 68.7 | 75.6 | 81.9 | 78.1 | 31.3 | |
| Pioneer P48A14E | Enlist | 4.8 | 55.8 | 84.3 | 65.9 | 90.1 | 65.5 | 64.9 | 70.0 | 70.9 | 30.8 | |
| Progeny P4604XFS | XFS | 4.6 | 63.4 | 74.6 | 66.6 | 84.4 | 66.1 | 72.3 | 61.1 | 69.8 | 27.3 | |
| Progeny P4691XFS | XFS | 4.6 | 70.6 | 75.5 | 76.2 | 85.4 | 66.5 | 76.6 | 64.3 | 73.6 | 25.3 | |
| Progeny P4732XF | XF | 4.7 | 69.2 | 78.4 | 70.1 | 86.2 | 65.5 | 68.9 | 44.9 | 69.0 | 25.9 | |
| Progeny P4775E3S | Enlist E3S | 4.7 | 51.4 | 70.3 | 56.9 | 70.8 | 57.9 | 68.6 | 66.8 | 63.2 | 23.9 | |
| Progeny P4798XF | XF | 4.7 | 65.2 | 78.7 | 66.3 | 81.6 | 67.1 | 56.9 | 70.4 | 69.5 | 28.6 | |
| Progeny P4806XFS | XFS | 4.8 | 66.3 | 74.4 | 71.9 | 82.7 | 62.3 | 50.9 | 77.3 | 69.4 | 28.7 | |
| Progeny P4821RX | RX | 4.8 | 63.7 | 71.9 | 71.7 | 85.6 | 67.7 | 75.6 | 83.4 | 74.2 | 30.6 | |
| Progeny P4844XFS | XFS | 4.8 | 62.6 | 66.9 | 70.7 | 88.3 | 63.6 | 59.0 | 81.4 | 70.3 | 26.2 | |
| Progeny P4932E | Enlist E3 | 4.9 | 49.5 | 70.0 | 73.3 | 78.1 | 63.4 | 55.6 | 74.2 | 66.3 | 27.5 | |
| Progeny P4951XFS | XFS | 4.9 | 62.8 | 70.7 | 64.3 | 81.7 | 64.5 | 65.5 | 75.3 | 69.3 | 25.2 | |
| R18-14147 | Conv. | 4.6 | 44.6 | 61.2 | 58.8 | 70.5 | 54.7 | 58.3 | 57.8 | 58.0 | 22.3 | |
| R18-14502 | Conv. | 4.9 | 54.6 | 54.5 | 62.8 | 77.2 | 59.8 | 55.4 | 64.2 | 61.2 | 29.7 | |
| R18-14753 | Conv. | 4.8 | 46.3 | 68.7 | 60.8 | 74.0 | 60.3 | 66.7 | 72.8 | 64.2 | 33.9 | |
| R18-5798 | Conv. | 4.9 | 40.3 | 65.2 | 49.7 | 70.0 | 46.3 | 50.6 | 64.4 | 55.2 | 22.3 | |

Continued

Table 9. Yields of Late Maturity Group IV (RM 4.6–4.9) Soybean Varieties and Strains in Arkansas Performance tests, 2022, Continued.^a

| Variety/ Experimental Line | Herbicide Technology | Relative Maturity | (bu./ac) | | | | | | | | Irrigated Mean | Stuttgart Non- Irrigated |
|---|------------------------------|----------------------|------------|--------|----------|---------|-----------|--------|-----------|------|-------------------|--------------------------------|
| | | | Keiser | Kibler | Marianna | Newport | Pine Tree | Rohwer | Stuttgart | | | |
| R18C-13253 | Conv. | 4.9 | 49.8 | 66.2 | 52.7 | 80.4 | 51.6 | 56.8 | 63.6 | 60.2 | 27.9 | |
| R18C-13665 | Conv. | 4.6 | 53.2 | 69.3 | 60.0 | 79.1 | 61.0 | 62.8 | 67.1 | 64.6 | 28.2 | |
| R18C-144 | Conv. | 4.7 | 40.9 | 63.7 | 51.5 | 73.6 | 50.8 | 59.3 | 57.6 | 56.8 | 20.9 | |
| R19C-3148 | Conv. | 4.8 | 47.9 | 62.0 | 51.1 | 70.8 | 52.2 | 62.9 | 64.6 | 58.8 | 26.9 | |
| R19C-3151 | Conv. | 4.8 | 42.7 | 65.0 | 53.2 | 73.6 | 50.6 | 57.7 | 61.9 | 57.8 | 24.5 | |
| R19C-3152 | Conv. | 4.9 | 45.3 | 71.0 | 55.5 | 72.9 | 51.7 | 54.8 | 64.4 | 59.4 | 23.8 | |
| R19C-3159 | Conv. | 4.8 | 45.5 | 62.8 | 53.1 | 73.9 | 46.4 | 60.2 | 65.3 | 58.2 | 24.9 | |
| R19C-3191 | Conv. | 4.6 | 46.3 | 66.0 | 53.1 | 68.4 | 49.3 | 59.8 | 56.6 | 57.1 | 25.4 | |
| S16-13165C | Conv. | 4.7 | 53.0 | 73.5 | 57.7 | 80.0 | 52.7 | 62.8 | 65.8 | 63.6 | 21.6 | |
| S16-7922C | Conv. | 4.9 | 58.5 | 77.2 | 64.3 | 83.4 | 64.7 | 66.2 | 67.4 | 68.8 | 26.9 | |
| S17-2193C | Conv. | 4.7 | 53.5 | 74.4 | 63.9 | 80.2 | 57.9 | 70.4 | 67.5 | 66.8 | 28.9 | |
| USG 7461XFS | XtendFlex | 4.6 | 62.2 | 74.4 | 70.4 | 76.7 | 64.0 | 65.8 | 77.0 | 70.1 | 29.6 | |
| USG 7463XFS | XtendFlex | 4.6 | 69.7 | 74.1 | 71.5 | 85.8 | 66.4 | 68.6 | 48.1 | 69.2 | 25.7 | |
| USG 7481XF | XtendFlex | 4.8 | 66.6 | 63.0 | 72.4 | 78.9 | 60.9 | 78.0 | 65.5 | 69.3 | 25.0 | |
| USG 7493ETS | Enlist | 4.9 | 48.9 | 78.7 | 56.2 | 75.9 | 53.7 | 60.1 | 67.8 | 63.0 | 26.8 | |
| | | | GRAND MEAN | 59.3 | 73.3 | 67.1 | 82.7 | 63.0 | 67.0 | 69.4 | 68.8 | 27.4 |
| | | | LSD (5%) | 5.8 | 8.3 | 6.2 | 7.1 | 6.0 | 9.2 | 10.6 | 2.9 | 3.1 |
| | | | C.V. | 7.3 | 8.4 | 6.8 | 6.4 | 7.0 | 10.2 | 11.3 | 8.4 | 8.3 |
| Used only when comparing w/in Non-Xtend varieties | LSD (Non-Xtend) ^b | 5.3 | 7.5 | 5.8 | 7.2 | 5.6 | 6.7 | 10.8 | • | | 2.8 | |
| Used only when comparing w/in Xtend varieties | LSD (Xtend) ^c | 6.0 | 8.9 | 6.5 | 7.2 | 5.8 | 10.5 | 10.7 | • | | 3.3 | |

^a Keiser = Northeast Research and Extension Center, Keiser, Ark.; Kibler = Vegetable Research Station, Alma, Ark.; Marianna = Lon Mann Cotton Research Station, Marianna, Ark.; Newport = Jackson County Extension Center, Newport, Ark.; Pine Tree = Pine Tree Research Station, Colt, Ark.; Rohwer = Rohwer Research Station, Rohwer, Ark.; Stuttgart = Rice Research and Extension Center, Stuttgart, Ark.; Stuttgart Non-Irrigated = Rice Research and Extension Center, Stuttgart, Ark.

^b Analysis of variance of Non-Xtend varieties (Conv., Enlist, STS, Enlist E3).

^c Analysis of variance of Xtend varieties (RR2X, Xtend, XtendFlex).

• = data not provided.

Table 10. Yields of Non-Xtend Late Maturity Group IV (RM 4.6–4.9) Soybean Varieties and Strains in Arkansas Performance tests, 2022.^a

| Variety/ Experimental Line | Herbicide Technology | Relative Maturity | (bu./ac) | | | | | | | Stuttgart | Stuttgart | |
|-------------------------------|-------------------------|----------------------|------------|--------|----------|---------|-----------|--------|-------------------|-----------|-----------|--|
| | | | Keiser | Kibler | Marianna | Newport | Pine Tree | Rohwer | Non- Irrigated | | | |
| DELTA GROW 46E10 | Enlist | 4.6 | 50.4 | 55.8 | 63.8 | 77.4 | 60.8 | 50.2 | 72.3 | 18.8 | | |
| DELTA GROW 47E20/STS | Enlist E3 | 4.7 | 49.7 | 68.8 | 50.2 | 78.1 | 60.9 | 72.3 | 65.5 | 26.1 | | |
| DELTA GROW 47E35/STS | Enlist E3 | 4.7 | 46.5 | 71.0 | 68.2 | 82.6 | 61.5 | 48.8 | 62.6 | 23.0 | | |
| DELTA GROW 48E49/STS | Enlist | 4.8 | 52.8 | 72.6 | 62.6 | 76.9 | 64.6 | 59.1 | 72.7 | 28.1 | | |
| DELTA GROW 48E59 | Enlist E3 | 4.8 | 53.1 | 76.3 | 69.1 | 89.9 | 68.7 | 66.9 | 64.5 | 28.6 | | |
| Delta Grow 48E60 | Enlist | 4.8 | 54.9 | 78.7 | 67.9 | 84.0 | 65.6 | 63.4 | 67.9 | 28.4 | | |
| Delta Grow 49E80 | Enlist | 4.9 | 52.0 | 80.2 | 71.2 | 80.1 | 63.4 | 59.9 | 69.7 | 27.5 | | |
| Dyna-Gro S46ES91 | Enlist/STS | 4.6 | 51.0 | 68.5 | 61.3 | 80.5 | 57.1 | 72.2 | 66.7 | 27.7 | | |
| Dyna-Gro S49EN12 | Enlist E3 | 4.6 | 48.2 | 74.1 | 59.7 | 81.4 | 60.4 | 66.5 | 67.7 | 22.4 | | |
| Innotech 4737E3 | Enlist | 4.7 | 47.2 | 64.3 | 69.2 | 84.4 | 60.5 | 65.3 | 63.0 | 29.5 | | |
| Innotech 4918E3 | Enlist | 4.9 | 48.1 | 65.3 | 55.8 | 79.0 | 57.8 | 64.9 | 61.3 | 21.2 | | |
| NK49-T6E3S | Enlist | 4.9 | 50.4 | 75.9 | 64.2 | 86.9 | 64.4 | 69.2 | 69.0 | 28.4 | | |
| PL2E472 | Enlist E3 | 4.7 | 53.3 | 71.8 | 69.2 | 83.8 | 70.6 | 65.0 | 79.9 | 28.1 | | |
| Pioneer P48A14E | Enlist | 4.8 | 55.8 | 84.3 | 65.9 | 90.1 | 65.5 | 64.9 | 70.0 | 30.8 | | |
| Progeny P4775E3S | Enlist E3S | 4.7 | 51.4 | 70.3 | 56.9 | 70.8 | 57.9 | 68.6 | 66.8 | 23.9 | | |
| Progeny P4932E | Enlist E3 | 4.9 | 49.5 | 70.0 | 73.3 | 78.1 | 63.4 | 55.6 | 74.2 | 27.5 | | |
| R18-14147 | Conv. | 4.6 | 44.6 | 61.2 | 58.8 | 70.5 | 54.7 | 58.3 | 57.8 | 22.3 | | |
| R18-14502 | Conv. | 4.9 | 54.6 | 54.5 | 62.8 | 77.2 | 59.8 | 55.4 | 64.2 | 29.7 | | |
| R18-14753 | Conv. | 4.8 | 46.3 | 68.7 | 60.8 | 74.0 | 60.3 | 66.7 | 72.8 | 33.9 | | |
| R18-5798 | Conv. | 4.9 | 40.3 | 65.2 | 49.7 | 70.0 | 46.3 | 50.6 | 64.4 | 22.3 | | |
| R18C-13665 | Conv. | 4.6 | 53.2 | 69.3 | 60.0 | 79.1 | 61.0 | 62.8 | 67.1 | 28.2 | | |
| R18C-144 | Conv. | 4.7 | 40.9 | 63.7 | 51.5 | 73.6 | 50.8 | 59.3 | 57.6 | 20.9 | | |
| R18C-13253 | Conv. | 4.9 | 49.8 | 66.2 | 52.7 | 80.4 | 51.6 | 56.8 | 63.6 | 27.9 | | |
| R19C-3148 | Conv. | 4.8 | 47.9 | 62.0 | 51.1 | 70.8 | 52.2 | 62.9 | 64.6 | 26.9 | | |
| R19C-3151 | Conv. | 4.8 | 42.7 | 65.0 | 53.2 | 73.6 | 50.6 | 57.7 | 61.9 | 24.5 | | |
| R19C-3152 | Conv. | 4.9 | 45.3 | 71.0 | 55.5 | 72.9 | 51.7 | 54.8 | 64.4 | 23.8 | | |
| R19C-3159 | Conv. | 4.8 | 45.5 | 62.8 | 53.1 | 73.9 | 46.4 | 60.2 | 65.3 | 24.9 | | |
| R19C-3191 | Conv. | 4.6 | 46.3 | 66.0 | 53.1 | 68.4 | 49.3 | 59.8 | 56.6 | 25.4 | | |
| S16-13165C | Conv. | 4.7 | 53.0 | 73.5 | 57.7 | 80.0 | 52.7 | 62.8 | 65.8 | 21.6 | | |
| S16-7922C | Conv. | 4.9 | 58.5 | 77.2 | 64.3 | 83.4 | 64.7 | 66.2 | 67.4 | 26.9 | | |
| S17-2193C | Conv. | 4.7 | 53.5 | 74.4 | 63.9 | 80.2 | 57.9 | 70.4 | 67.5 | 28.9 | | |
| USG 7493ETS | Enlist | 4.9 | 48.9 | 78.7 | 56.2 | 75.9 | 53.7 | 60.1 | 67.8 | 26.8 | | |
| | | | GRAND MEAN | 49.6 | 69.6 | 60.4 | 78.4 | 58.3 | 61.8 | 66.3 | 26.1 | |
| | | | LSD (5%) | 5.3 | 7.5 | 5.8 | 7.2 | 5.6 | 6.7 | 10.8 | 2.8 | |
| | | | C.V. | 7.9 | 7.9 | 7.0 | 6.7 | 7.1 | 7.9 | 11.9 | 8.0 | |

^a Keiser = Northeast Research and Extension Center, Keiser, Ark.; Kibler = Vegetable Research Station, Alma, Ark.; Marianna = Lon Mann Cotton Research Station, Marianna, Ark.; Newport = Jackson County Extension Center, Newport, Ark.; Pine Tree = Pine Tree Research Station, Colt, Ark.; Rohwer = Rohwer Research Station, Rohwer, Ark.; Stuttgart = Rice Research and Extension Center, Stuttgart, Ark.; Stuttgart Non-Irrigated = Rice Research and Extension Center, Stuttgart, Ark.

Table 11. Yields of Xtend Late Maturity Group IV (RM 4.6–4.9) Soybean Varieties and Strains in Arkansas Performance tests, 2022.^a

| Variety/ Experimental Line | Herbicide Technology | Relative Maturity | (bu./ac) | | | | | | | | Stuttgart | Non- Irrigated |
|-------------------------------|-------------------------|----------------------|----------|--------|----------|---------|-----------|--------|-----------|---------------|-----------|-------------------|
| | | | Keiser | Kibler | Marianna | Newport | Pine Tree | Rohwer | Stuttgart | Non-Irrigated | | |
| AG46XF3 | XtendFlex/SR | 4.6 | 74.4 | 87.9 | 70.2 | 78.6 | 67.2 | 79.3 | 72.2 | 29.6 | | |
| AG47XF3 | XtendFlex/SR | 4.7 | 59.0 | 74.3 | 67.2 | 77.1 | 64.1 | 72.6 | 72.1 | 26.9 | | |
| AG48XF3 | XtendFlex/SR | 4.8 | 60.5 | 78.7 | 68.1 | 86.7 | 67.6 | 79.2 | 77.7 | 28.1 | | |
| AG49XF3 | XtendFlex | 4.9 | 62.4 | 87.4 | 65.6 | 89.6 | 62.2 | 72.0 | 74.0 | 27.8 | | |
| Armor 46-F13 | XtendFlex | 4.6 | 61.9 | 73.6 | 70.9 | 85.0 | 64.8 | 58.9 | 74.7 | 29.5 | | |
| Armor 46-F96 | XtendFlex | 4.6 | 68.3 | 68.3 | 77.1 | 93.0 | 64.4 | 69.6 | 70.3 | 28.6 | | |
| Armor 48-D25 | Xtend | 4.8 | 66.0 | 73.3 | 73.4 | 83.3 | 65.6 | 85.6 | 70.2 | 28.9 | | |
| Armor 48-F22 | XtendFlex | 4.8 | 61.1 | 66.7 | 69.2 | 86.7 | 68.1 | 63.7 | 74.0 | 30.2 | | |
| Armor 49-F37 | XtendFlex | 4.9 | 65.2 | 75.0 | 67.7 | 86.4 | 67.8 | 61.6 | 70.5 | 26.6 | | |
| Axis 4613XF | XtendFlex | 4.6 | 62.5 | 75.4 | 73.0 | 91.1 | 65.7 | 68.5 | 71.3 | 26.1 | | |
| Axis 4641XFSTS | XtendFlex | 4.6 | 61.7 | 73.5 | 74.5 | 84.6 | 63.7 | 74.2 | 69.2 | 32.2 | | |
| Axis 4813XFSTS | XtendFlex | 4.8 | 62.4 | 75.2 | 66.2 | 86.9 | 62.6 | 63.5 | 78.1 | 26.5 | | |
| DELTA GROW 46X65/STS | Xtend | 4.6 | 67.3 | 77.1 | 73.9 | 91.2 | 66.3 | 77.0 | 70.6 | 28.5 | | |
| DELTA GROW 46XF18 | XtendFlex | 4.6 | 68.0 | 74.8 | 75.3 | 83.6 | 65.1 | 69.7 | 81.9 | 27.3 | | |
| DELTA GROW 48X45 | Xtend | 4.8 | 62.9 | 71.1 | 73.9 | 87.8 | 69.0 | 67.9 | 76.9 | 29.4 | | |
| DELTA GROW 48XF33/STS | XtendFlex/STS | 4.8 | 64.7 | 70.7 | 67.6 | 86.1 | 67.0 | 71.6 | 61.4 | 27.6 | | |
| DELTA GROW 49XF29/STS | XtendFlex | 4.9 | 60.3 | 72.4 | 59.2 | 81.1 | 65.9 | 63.0 | 73.5 | 23.7 | | |
| DONMARIO DM48F53 | XtendFlex | 4.8 | 70.3 | 78.0 | 72.3 | 91.9 | 69.6 | 72.0 | 51.8 | 30.3 | | |
| Dyna-Gro S46XF31S | XtendFlex | 4.6 | 63.5 | 71.9 | 74.8 | 89.7 | 61.1 | 65.1 | 77.5 | 30.0 | | |
| Dyna-Gro S46XS60 | Xtend/STS | 4.6 | 66.1 | 73.4 | 73.8 | 84.2 | 73.2 | 77.2 | 66.9 | 28.4 | | |
| Dyna-Gro S47XF23S | XtendFlex | 4.7 | 71.3 | 78.1 | 77.1 | 87.4 | 67.2 | 72.7 | 61.6 | 28.7 | | |
| Dyna-Gro S47XF52 | XtendFlex | 4.7 | 55.5 | 63.7 | 58.1 | 79.0 | 54.9 | 60.6 | 71.5 | 28.8 | | |
| Dyna-Gro S49XF82S | XtendFlex/STS | 4.9 | 60.8 | 72.1 | 66.4 | 86.0 | 63.0 | 66.2 | 73.7 | 26.7 | | |
| Eagle Seed ES4875XF | XtendFlex | 4.8 | 66.1 | 70.8 | 78.7 | 78.4 | 60.8 | 60.0 | 77.2 | 25.6 | | |
| Innvictis MEX46332XF | XtendFlex | 4.6 | 66.4 | 78.0 | 71.2 | 83.0 | 66.6 | 63.1 | 81.8 | 24.8 | | |
| Innvictis MEX49992XF | XtendFlex | 4.9 | 64.4 | 80.3 | 67.4 | 90.1 | 63.1 | 73.4 | 62.5 | 31.5 | | |
| Integra 54660NS | Xtend | 4.6 | 69.2 | 85.7 | 71.5 | 92.6 | 73.2 | 80.7 | 64.8 | 29.5 | | |
| Integra 54891NS | Xtend | 4.8 | 68.1 | 80.2 | 72.4 | 85.1 | 65.8 | 64.2 | 77.6 | 24.8 | | |
| Integra 74621NS | XtendFlex | 4.6 | 65.5 | 78.2 | 74.9 | 82.8 | 66.6 | 71.0 | 78.6 | 30.7 | | |
| Integra 74731NS | XtendFlex | 4.7 | 66.3 | 65.7 | 74.1 | 80.2 | 59.1 | 64.8 | 48.4 | 29.0 | | |
| Integra 74893NS | XtendFlex | 4.8 | 65.8 | 87.2 | 67.2 | 83.3 | 68.7 | 73.4 | 67.1 | 27.8 | | |
| NK47-Z1XF | XtendFlex | 4.7 | 63.3 | 72.9 | 69.8 | 82.3 | 65.3 | 78.0 | 76.8 | 32.0 | | |
| NK48-H3XFS | XtendFlex | 4.8 | 70.0 | 81.6 | 80.3 | 92.2 | 67.0 | 76.1 | 65.7 | 26.5 | | |
| Pioneer P46A20LX | RR2X Liberty | 4.6 | 70.4 | 67.2 | 74.8 | 81.9 | 66.9 | 69.4 | 77.2 | 28.5 | | |
| Pioneer P47A64X | RR2X | 4.7 | 69.9 | 84.0 | 76.6 | 90.4 | 68.7 | 75.6 | 81.9 | 31.3 | | |

Continued

Table 11. Yields of Xtend Late Maturity Group IV (RM 4.6–4.9) Soybean Varieties and Strains in Arkansas Performance tests, 2022, Continued.^a

| Variety/ Experimental Line | Herbicide Technology | Relative Maturity | (bu./ac) | | | | | | | | Stuttgart | Non- Irrigated |
|-------------------------------|-------------------------|----------------------|------------|--------|----------|---------|-----------|--------|-----------|-----------|-----------|-------------------|
| | | | Keiser | Kibler | Marianna | Newport | Pine Tree | Rohwer | Stuttgart | Stuttgart | Stuttgart | |
| Progeny P4604XFS | XFS | 4.6 | 63.4 | 74.6 | 66.6 | 84.4 | 66.1 | 72.3 | 61.1 | 61.1 | 27.3 | |
| Progeny P4691XFS | XFS | 4.6 | 70.6 | 75.5 | 76.2 | 85.4 | 66.5 | 76.6 | 64.3 | 64.3 | 25.3 | |
| Progeny P4732XF | XF | 4.7 | 69.2 | 78.4 | 70.1 | 86.2 | 65.5 | 68.9 | 44.9 | 44.9 | 25.9 | |
| Progeny P4798XF | XF | 4.7 | 65.2 | 78.7 | 66.3 | 81.6 | 67.1 | 56.9 | 70.4 | 70.4 | 28.6 | |
| Progeny P4806XFS | XFS | 4.8 | 66.3 | 74.4 | 71.9 | 82.7 | 62.3 | 50.9 | 77.3 | 77.3 | 28.7 | |
| Progeny P4821RX | RX | 4.8 | 63.7 | 71.9 | 71.7 | 85.6 | 67.7 | 75.6 | 83.4 | 83.4 | 30.6 | |
| Progeny P4844XFS | XFS | 4.8 | 62.6 | 66.9 | 70.7 | 88.3 | 63.6 | 59.0 | 81.4 | 81.4 | 26.2 | |
| Progeny P4951XFS | XFS | 4.9 | 62.8 | 70.7 | 64.3 | 81.7 | 64.5 | 65.5 | 75.3 | 75.3 | 25.2 | |
| Revere 4606XFS | XtendFlex/STS | 4.6 | 62.3 | 77.2 | 67.0 | 81.1 | 67.8 | 73.8 | 74.9 | 74.9 | 29.9 | |
| Revere 4727XF | XtendFlex | 4.7 | 64.7 | 73.2 | 71.6 | 86.5 | 69.8 | 69.2 | 83.5 | 83.5 | 27.9 | |
| Revere 4795XS | RR2Xtend/STS | 4.7 | 65.5 | 79.9 | 76.1 | 88.9 | 66.7 | 78.5 | 73.7 | 73.7 | 30.1 | |
| Revere 4806XS | Xtend/STS | 4.8 | 66.6 | 76.0 | 72.0 | 79.7 | 68.1 | 77.5 | 73.0 | 73.0 | 28.7 | |
| Revere 4826XFS | XtendFlex/STS | 4.8 | 69.5 | 80.8 | 73.5 | 82.3 | 65.0 | 80.8 | 78.4 | 78.4 | 28.5 | |
| Revere 4925XF | XtendFlex | 4.9 | 63.3 | 79.7 | 65.9 | 84.9 | 67.3 | 67.3 | 68.5 | 68.5 | 31.0 | |
| USG 7461XFS | XtendFlex | 4.6 | 62.2 | 74.4 | 70.4 | 76.7 | 64.0 | 65.8 | 77.0 | 77.0 | 29.6 | |
| USG 7463XFS | XtendFlex | 4.6 | 69.7 | 74.1 | 71.5 | 85.8 | 66.4 | 68.6 | 48.1 | 48.1 | 25.7 | |
| USG 7481XF | XtendFlex | 4.8 | 66.6 | 63.0 | 72.4 | 78.9 | 60.9 | 78.0 | 65.5 | 65.5 | 25.0 | |
| | | | GRAND MEAN | 65.4 | 75.4 | 71.1 | 85.2 | 65.8 | 70.2 | 71.3 | 71.3 | 28.2 |
| | | | LSD (5%) | 6.0 | 8.9 | 6.5 | 7.2 | 5.8 | 10.5 | 10.7 | 10.7 | 3.3 |
| | | | C.V. | 6.8 | 8.7 | 6.8 | 6.3 | 6.6 | 11.1 | 11.1 | 11.1 | 8.6 |

^a Keiser = Northeast Research and Extension Center, Keiser, Ark.; Kibler = Vegetable Research Station, Alma, Ark.; Marianna = Lon Mann Cotton Research Station, Marianna, Ark.; Newport = Jackson County Extension Center, Newport, Ark.; Pine Tree = Pine Tree Research Station, Colt, Ark.; Rohwer = Rohwer Research Station, Rohwer, Ark.; Stuttgart = Rice Research and Extension Center, Stuttgart, Ark.; Stuttgart Non-Irrigated = Rice Research and Extension Center, Stuttgart, Ark.

Table 12. Yields of Maturity Group V (RM 5.0–5.9) Soybean Varieties and Strains in Arkansas Performance tests, 2022.^a

| Variety/ Experimental Line | Herbicide Technology | Relative Maturity | (bu./ac) | | | | | | | | Irrigated Mean | Stuttgart Non-Irrigated |
|---|------------------------------|----------------------|------------|--------|----------|---------|-----------|--------|-----------|------|-------------------|----------------------------|
| | | | Keiser | Kibler | Marianna | Newport | Pine Tree | Rohwer | Stuttgart | | | |
| Armor 51-F88 | XtendFlex | 5.1 | 57.1 | 81.2 | 63.8 | 91.1 | 63.6 | 60.8 | 74.5 | 70.3 | 25.6 | |
| DELTA GROW 51E30 | Enlist | 5.1 | 48.0 | 70.8 | 51.5 | 81.9 | 55.8 | 61.2 | 68.3 | 62.5 | 27.3 | |
| DELTA GROW 52E80 | Enlist E3 | 5.2 | 44.8 | 77.3 | 56.8 | 83.0 | 64.3 | 51.9 | 69.9 | 64.0 | 21.6 | |
| DELTA GROW 52XF22/STS | XtendFlex | 5.2 | 60.7 | 74.6 | 64.1 | 89.2 | 65.0 | 71.2 | 75.3 | 71.4 | 29.5 | |
| DELTA GROW 54XF20 | XtendFlex | 5.4 | 56.2 | 59.5 | 55.5 | 80.5 | 60.8 | 61.5 | 74.1 | 64.0 | 24.1 | |
| Dyna-Gro S54XF62 | XtendFlex | 5.4 | 59.3 | 60.4 | 57.2 | 83.6 | 64.8 | 65.8 | 72.2 | 66.2 | 30.7 | |
| Innotech 5143E3 | Enlist E3 | 5.1 | 50.7 | 75.2 | 52.2 | 91.8 | 63.7 | 63.0 | 80.6 | 68.2 | 28.8 | |
| Innotech 5360E3 | Enlist | 5.3 | 46.5 | 57.7 | 51.0 | 81.1 | 61.6 | 51.4 | 73.1 | 60.4 | 23.1 | |
| Revere 5029XF | XtendFlex | 5.0 | 60.8 | 76.5 | 66.9 | 86.6 | 66.1 | 79.5 | 78.8 | 73.6 | 25.8 | |
| Revere 5614XF | XtendFlex | 5.6 | 52.3 | 62.2 | 55.8 | 84.5 | 62.5 | 50.3 | 61.9 | 61.3 | 32.9 | |
| Revere 5429E3 | Enlist E5 | 5.4 | 46.1 | 71.1 | 51.9 | 93.4 | 63.1 | 58.3 | 75.5 | 65.6 | 27.5 | |
| PL2E502 | Enlist E3 | 5.0 | 40.0 | 61.2 | 48.7 | 76.6 | 55.3 | 55.9 | 68.6 | 58.0 | 24.6 | |
| Progeny P5016RXS | RXS | 5.0 | 54.4 | 60.9 | 64.3 | 83.6 | 72.9 | 61.5 | 77.4 | 67.9 | 28.5 | |
| Progeny P5045E3S | E3S | 5.0 | 48.8 | 82.5 | 52.0 | 85.1 | 53.1 | 77.1 | 67.3 | 66.5 | 27.9 | |
| Progeny P5056XFS | XFS | 5.0 | 56.7 | 71.9 | 66.2 | 89.9 | 68.7 | 61.2 | 80.9 | 70.8 | 31.2 | |
| Progeny P5150XFS | XFS | 5.1 | 59.4 | 73.3 | 62.2 | 89.8 | 62.6 | 68.9 | 80.2 | 70.9 | 22.8 | |
| Progeny P5521E3 | Enlist E3 | 5.5 | 43.9 | 78.8 | 53.9 | 80.3 | 55.3 | 56.3 | 72.0 | 62.9 | 26.4 | |
| Progeny P5554RX | RX | 5.4 | 56.4 | 60.5 | 58.5 | 85.5 | 60.9 | 70.0 | 76.4 | 66.9 | 23.9 | |
| R17-283F | Conv. | 5.3 | 36.9 | 54.2 | 47.6 | 73.8 | 55.3 | 49.1 | 63.4 | 54.3 | 22.8 | |
| R18-13337 | Conv. | 5.0 | 48.5 | 57.3 | 50.4 | 76.2 | 54.9 | 63.7 | 67.5 | 59.8 | 29.1 | |
| R18-14272 | Conv. | 5.1 | 48.4 | 61.1 | 57.7 | 71.4 | 60.4 | 61.8 | 69.5 | 61.5 | 34.4 | |
| R18-14286 | Conv. | 5.4 | 41.0 | 66.4 | 52.4 | 74.9 | 57.8 | 58.8 | 60.6 | 58.8 | 29.0 | |
| R18-3332 | Conv. | 5.2 | 46.8 | 60.1 | 54.6 | 80.8 | 55.1 | 58.2 | 66.6 | 60.3 | 22.5 | |
| R19C-3085 | Conv. | 5.3 | 52.0 | 66.4 | 51.1 | 62.9 | 64.0 | 59.1 | 70.7 | 60.9 | 25.6 | |
| R19C-3144 | Conv. | 5.2 | 43.4 | 59.6 | 49.3 | 73.5 | 49.7 | 58.7 | 67.6 | 57.4 | 28.5 | |
| R19C-3169 | Conv. | 5.1 | 43.7 | 64.5 | 51.3 | 74.5 | 52.4 | 70.3 | 70.1 | 61.0 | 26.5 | |
| R19C-3182 | Conv. | 5.0 | 40.9 | 60.9 | 50.0 | 79.3 | 52.9 | 57.3 | 62.0 | 57.6 | 29.4 | |
| R19C-3194 | Conv. | 5.0 | 43.6 | 64.0 | 48.7 | 75.0 | 49.9 | 52.6 | 70.5 | 57.8 | 30.6 | |
| S16-14801C | Conv. | 5.0 | 53.7 | 72.4 | 58.3 | 75.3 | 65.3 | 70.1 | 73.6 | 66.9 | 30.6 | |
| | | | GRAND MEAN | 50.0 | 67.1 | 55.5 | 81.5 | 60.0 | 62.5 | 71.3 | 64.0 | 26.9 |
| | | | LSD (5%) | 5.0 | 8.3 | 4.2 | 5.8 | 5.4 | 8.8 | 4.4 | 2.3 | 3.9 |
| | | | C.V. | 7.3 | 9.0 | 5.6 | 5.2 | 6.6 | 10.4 | 4.5 | 7.1 | 10.7 |
| Used only when comparing w/in Non-Xtend varieties | LSD (Non-Xtend) ^b | 4.9 | 8.3 | 4.6 | 5.1 | 15.2 | 8.7 | 4.7 | • | | 4.0 | |
| Used only when comparing w/in Xtend varieties | LSD (Xtend) ^b | 5.5 | 9.1 | 3.9 | 7.2 | 6.1 | 8.8 | 4.1 | • | | 2.7 | |

^a Keiser = Northeast Research and Extension Center, Keiser, Ark.; Kibler = Vegetable Research Station, Alma, Ark.; Marianna = Lon Mann Cotton Research Station, Marianna, Ark.; Newport = Jackson County Extension Center, Newport, Ark.; Pine Tree = Pine Tree Research Station, Colt, Ark.; Rohwer = Rohwer Research Station, Rohwer, Ark.; Stuttgart = Rice Research and Extension Center, Stuttgart, Ark.; Stuttgart Non-Irrigated = Rice Research and Extension Center, Stuttgart, Ark.

^b Analysis of variance of Non-Xtend varieties (Conv., Enlist E3); analysis of variance of Xtend varieties (Xtend, tendFlex).

• = data not provided.

Table 13. Yields of Non-Xtend Maturity Group V (RM 5.0–5.9) Soybean Varieties and Strains in Arkansas Performance tests, 2022.^a

| Variety/ Experimental Line | Herbicide Technology | Relative Maturity | Keiser | Kibler | Marianna | Newport | Pine Tree | Rohwer | Stuttgart | Stuttgart Non-Irrigated |
|-------------------------------|-------------------------|----------------------|--------|--------|----------|---------|-----------|--------|-----------|----------------------------|
| (bu./ac) | | | | | | | | | | |
| DELTA GROW 52E80 | Enlist E3 | 5.2 | 44.8 | 77.3 | 56.8 | 83.0 | 64.3 | 51.9 | 69.9 | 21.6 |
| DELTA GROW 51E30 | Enlist | 5.1 | 48.0 | 70.8 | 51.5 | 81.9 | 37.6 | 61.2 | 68.3 | 27.3 |
| Innotech 5360E3 | Enlist | 5.1 | 46.5 | 57.7 | 51.0 | 81.1 | 61.6 | 51.4 | 73.1 | 23.1 |
| Innotech 5143E3 | Enlist E3 | 5.1 | 50.7 | 75.2 | 52.2 | 91.8 | 63.7 | 63.0 | 80.6 | 28.8 |
| Revere 5429E3 | Enlist E5 | 5.4 | 46.1 | 71.1 | 51.9 | 93.4 | 63.1 | 58.3 | 75.5 | 27.5 |
| PL2E502 | Enlist E3 | 5.0 | 40.0 | 61.2 | 48.7 | 76.6 | 55.3 | 55.9 | 68.6 | 24.6 |
| Progeny P5045E3S | Enlist E3S | 5.0 | 48.8 | 82.5 | 52.0 | 85.1 | 53.1 | 77.1 | 67.3 | 27.9 |
| Progeny P5521E3 | Enlist E3 | 5.5 | 43.9 | 78.8 | 53.9 | 80.3 | 55.3 | 56.3 | 72.0 | 26.4 |
| R17-283F | Conv. | 5.3 | 36.9 | 54.2 | 47.6 | 73.8 | 55.3 | 49.1 | 63.4 | 22.8 |
| R18-13337 | Conv. | 5.0 | 48.5 | 57.3 | 50.4 | 76.2 | 54.9 | 63.7 | 67.5 | 29.1 |
| R18-14272 | Conv. | 5.1 | 48.4 | 61.1 | 57.7 | 71.4 | 60.4 | 61.8 | 69.5 | 34.4 |
| R18-14286 | Conv. | 5.4 | 41.0 | 66.4 | 52.4 | 74.9 | 57.8 | 58.8 | 60.6 | 29.0 |
| R18-3332 | Conv. | 5.2 | 46.8 | 60.1 | 54.6 | 80.8 | 55.1 | 58.2 | 66.6 | 22.5 |
| R19C-3085 | Conv. | 5.3 | 52.0 | 66.4 | 51.1 | 62.9 | 64.0 | 59.1 | 70.7 | 25.6 |
| R19C-3144 | Conv. | 5.2 | 43.4 | 59.6 | 49.3 | 73.5 | 49.7 | 58.7 | 67.6 | 28.5 |
| R19C-3169 | Conv. | 5.1 | 43.7 | 64.5 | 51.3 | 74.5 | 52.4 | 70.3 | 70.1 | 26.5 |
| R19C-3182 | Conv. | 5.0 | 40.9 | 60.9 | 50.0 | 79.3 | 52.9 | 57.3 | 62.0 | 29.4 |
| R19C-3194 | Conv. | 5.0 | 43.6 | 64.0 | 48.7 | 75.0 | 49.9 | 52.6 | 70.5 | 30.6 |
| S16-14801C | Conv. | 5.0 | 53.7 | 72.4 | 58.3 | 75.3 | 65.3 | 70.1 | 73.6 | 30.6 |
| GRAND MEAN | | | | | | | | | | |
| | LSD (5%) | 4.9 | 8.3 | 4.6 | 5.1 | 15.2 | 8.7 | 4.7 | 4.0 | |
| | C.V. | 7.8 | 9.1 | 6.3 | 4.8 | 19.2 | 10.6 | 5.0 | 10.8 | |

^a Keiser = Northeast Research and Extension Center, Keiser, Ark.; Kibler = Vegetable Research Station, Alma, Ark.; Marianna = Lon Mann Cotton Research Station, Marianna, Ark.; Newport = Jackson County Extension Center, Newport, Ark.; Pine Tree = Pine Tree Research Station, Colt, Ark.; Rohwer, Ark.; Stuttgart = Rice Research and Extension Center, Stuttgart, Ark.; Stuttgart Non-Irrigated = Rice Research and Extension Center, Stuttgart, Ark.

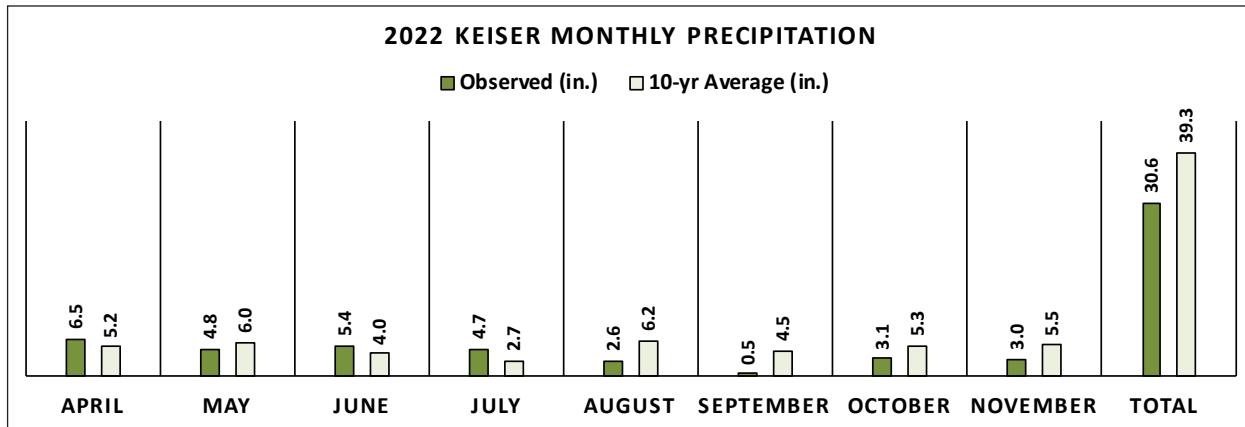
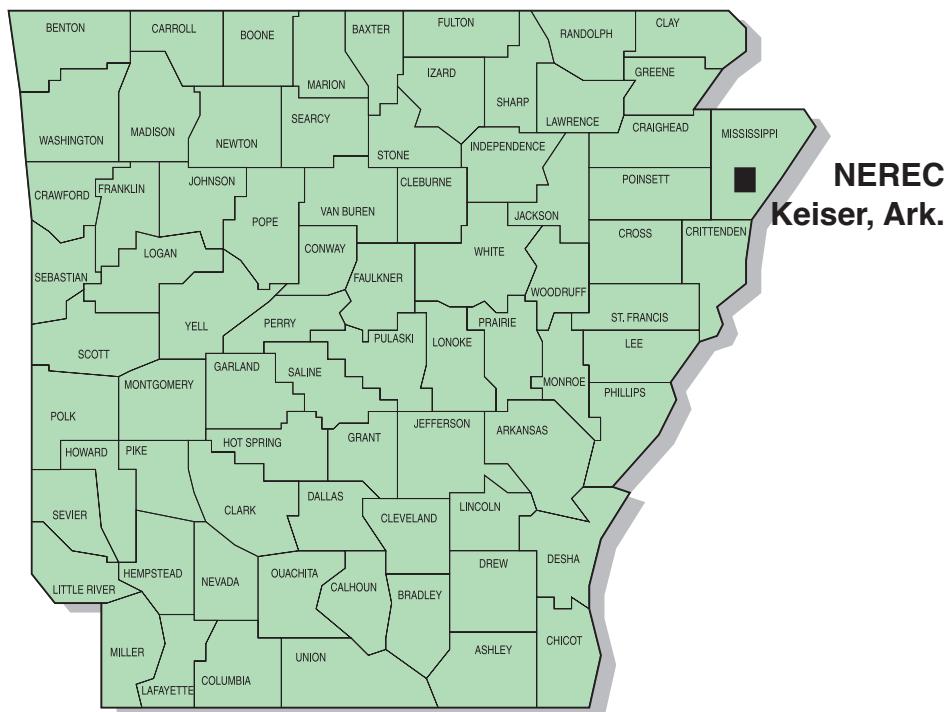
Table 14. Yields of Xtend Maturity Group V (RM 5.0–5.9) Soybean Varieties and Strains in Arkansas Performance tests, 2022.^a

| Variety/ Experimental Line | Herbicide Technology | Relative Maturity | Keiser | Kibler | Marianna | Newport | Pine Tree | Rohwer | Stuttgart | Stuttgart Non-Irrigated |
|-------------------------------|-------------------------|----------------------|--------|--------|----------|---------|-----------|--------|-----------|----------------------------|
| (bu./ac) | | | | | | | | | | |
| Armor 51-F88 | XtendFlex | 5.1 | 57.1 | 81.2 | 63.8 | 91.1 | 63.6 | 60.8 | 74.5 | 25.6 |
| DELTA GROW 52XF22/STS | XtendFlex | 5.2 | 60.7 | 74.6 | 64.1 | 89.2 | 65.0 | 71.2 | 75.3 | 29.5 |
| DELTA GROW 54XF20 | XtendFlex | 5.4 | 56.2 | 59.5 | 55.5 | 80.5 | 60.8 | 61.5 | 74.1 | 24.1 |
| Dyna-Gro S54XF62 | XtendFlex | 5.4 | 59.3 | 60.4 | 57.2 | 83.6 | 64.8 | 65.8 | 72.2 | 30.7 |
| Revere 5029XF | XtendFlex | 5.0 | 60.8 | 76.5 | 66.9 | 86.6 | 66.1 | 79.5 | 78.8 | 25.8 |
| Revere 5614XF | XtendFlex | 5.6 | 52.3 | 62.2 | 55.8 | 84.5 | 62.5 | 50.3 | 61.9 | 32.9 |
| Progeny P5016RXS | RXS | 5.0 | 54.4 | 60.9 | 64.3 | 83.6 | 72.9 | 61.5 | 77.4 | 28.5 |
| Progeny P5056XFS | XFS | 5.0 | 56.7 | 71.9 | 66.2 | 89.9 | 68.7 | 61.2 | 80.9 | 31.2 |
| Progeny P5150XFS | XFS | 5.1 | 59.4 | 73.3 | 62.2 | 89.8 | 62.6 | 68.9 | 80.2 | 22.8 |
| Progeny P5554RX | RX | 5.4 | 56.4 | 60.5 | 58.5 | 85.5 | 60.9 | 70.0 | 76.4 | 23.9 |
| GRAND MEAN | | | 57.6 | 67.9 | 61.5 | 86.3 | 64.6 | 66.4 | 74.7 | 26.8 |
| LSD (5%) | | | 5.5 | 9.1 | 3.9 | 7.2 | 6.1 | 8.8 | 4.1 | 2.7 |
| C.V. | | | 6.8 | 9.5 | 4.5 | 6.0 | 6.7 | 9.5 | 3.9 | 7.3 |

^a Keiser = Northeast Research and Extension Center, Keiser, Ark.; Kibler = Vegetable Research Station, Alma, Ark.; Marianna = Lon Mann Cotton Research Station, Marianna Ark.; Newport = Jackson County Extension Center, Newport, Ark.; Pine Tree = Pine Tree Research Station, Colt, Ark.; 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, 2022



| Soil Series | Harvest | Date |
|---------------------|--|----------------|
| Sharkey, silty clay | Relative Maturity (RM) (4.0-4.5), RM (4.6-4.9), RM (5.0-5.9) | Oct. 7, 19, 19 |
| Previous Crop | Herbicide Application(s) | Date |
| Corn | Valor® 2 oz.ac, Zidua® 2 oz/ac, Gramoxone® 32 oz/ac | May 19 |
| Row Spacing | Asphate® 1/2 lb/ac, Warrior® 1 oz/ac | Aug. 10 |
| 38 in. | Prefix® 1 qt/ac | June 20 |
| Planting Date | Trial Comments: Non-Xtend soybean varieties repeatedly showed symptoms consistent with injury attributed to off-target movement of dicamba. | |
| May 18 | | |
| Irrigation Dates | | |
| June 21; July 12,16 | | |

Table 15. Performance of Irrigated Soybean Varieties and Strains, Northeast Research and Extension Center, Keiser, Ark., 2022.

| Variety/Experimental Line | 2022 | 2-Year | 3-Year | Maturity | Moisture (%) | Plant Height (in.) | Lodging ^d |
|----------------------------------|------|----------------------------------|----------------------|----------|-----------------|--------------------------|----------------------|
| | | Average ^b (bu./ac) | Average ^c | Date | | | |
| Relative Maturity 4.0–4.5 | | | | | | | |
| NK44-J4XFS | 73.6 | • | • | 9/20 | 9.8 | 34 | 1 |
| AG45XF3 | 71.5 | • | • | 9/22 | 10.9 | 40 | 1 |
| NK43-Y9XFS | 69.1 | • | • | 9/21 | 10.8 | 36 | 1 |
| Dyna-Gro S42XF93S | 67.3 | • | • | 9/23 | 10.8 | 36 | 1 |
| Progeny P4505RXS | 67.2 | 79.7 | 77.4 | 9/24 | 10.9 | 40 | 1 |
| NK42-T5XF | 67.0 | • | • | 9/23 | 10.7 | 30 | 1 |
| NK43-V8XF | 66.6 | • | • | 9/22 | 10.8 | 42 | 1 |
| Eagle Seed ES4120XF | 65.8 | • | • | 9/19 | 10.7 | 36 | 1 |
| Innvictis MEX44122XF | 65.3 | • | • | 9/25 | 10.8 | 39 | 1 |
| Progeny P4200RXS | 65.3 | • | • | 9/24 | 10.9 | 40 | 1 |
| Pioneer P44A21X | 65.1 | • | • | 9/23 | 10.5 | 39 | 1 |
| Revere 4415XF | 64.7 | 76.9 | • | 9/23 | 10.9 | 37 | 1 |
| Pioneer P40A90LX | 64.6 | • | • | 9/19 | 10.6 | 36 | 1 |
| Integra 74142NS | 64.4 | • | • | 9/22 | 10.6 | 31 | 1 |
| Dyna-Gro S43XS70 | 63.9 | 76.7 | 78.0 | 9/22 | 10.6 | 35 | 1 |
| DONMARIO DM45F23 | 63.4 | • | • | 9/23 | 10.9 | 35 | 1 |
| Axis 4112XFSTSTS | 63.3 | • | • | 9/23 | 10.9 | 38 | 1 |
| Armor 44-D49 | 62.9 | 77.3 | 78.6 | 9/24 | 10.7 | 37 | 1 |
| Progeny P4521XFS | 62.5 | 75.8 | • | 9/24 | 10.6 | 42 | 1 |
| Armor 45-F02 | 62.3 | • | • | 9/23 | 10.9 | 43 | 1 |
| Dyna-Gro S45XF02 | 61.8 | • | • | 9/23 | 10.9 | 38 | 1 |
| Progeny P4444RXS | 59.8 | • | • | 9/22 | 10.6 | 34 | 1 |
| Revere 4526XF | 59.8 | • | • | 9/23 | 10.9 | 43 | 1 |
| Axis 4522XF | 59.2 | 72.5 | • | 9/22 | 10.9 | 36 | 1 |
| Progeny P4202XFS | 58.8 | • | • | 9/26 | 10.6 | 39 | 1 |
| Integra 74383N | 58.5 | • | • | 9/21 | 10.8 | 39 | 1 |
| NK45-V9E3 | 58.3 | • | • | 9/24 | 10.6 | 30 | 1 |
| Pioneer P45A40LX | 58.0 | • | • | 9/22 | 10.6 | 39 | 1 |
| Pioneer P45A79E | 58.0 | • | • | 9/26 | 10.5 | 28 | 1 |
| Progeny P4431E3 | 55.7 | 63.8 | • | 9/22 | 10.4 | 30 | 1 |
| NK45-P9XF | 55.6 | • | • | 9/24 | 10.7 | 44 | 1 |
| NK44-Q5E3S | 55.0 | • | • | 9/24 | 10.4 | 25 | 1 |
| Pioneer P44A91E | 53.7 | • | • | 9/24 | 10.1 | 25 | 1 |
| Dyna-Gro S41EN72 | 53.6 | • | • | 9/21 | 10.6 | 26 | 1 |
| Pioneer P42A84E | 53.0 | • | • | 9/24 | 10.3 | 28 | 1 |

Continued

Table 15. Performance of Irrigated Soybean Varieties and Strains, Northeast Research and Extension Center, Keiser, Ark., 2022, Continued.

| Variety/Experimental Line | 2022 | 2-Year Average ^b (bu./ac) | 3-Year Average ^c | Maturity Date | Moisture (%) | Plant Height (in.) | Lodging ^d |
|---|------|---|-----------------------------|---------------|--------------|--------------------|----------------------|
| Relative Maturity 4.0–4.5, continued | | | | | | | |
| Pioneer P40A36E | 52.3 | • | • | 9/20 | 10.5 | 22 | 1 |
| DELTA GROW 44XF41 | 51.5 | • | • | 9/22 | 10.6 | 41 | 1 |
| Dyna-Gro S45ES10 | 51.3 | 62.3 | 63.2 | 9/25 | 10.8 | 33 | 1 |
| R18C-11737 | 50.0 | • | • | 9/23 | 11.0 | 29 | 1 |
| DELTA GROW 45E33 | 47.9 | • | • | 9/27 | 10.6 | 30 | 1 |
| R19C-1012 | 46.7 | • | • | 9/27 | 10.9 | 39 | 1 |
| Grand Mean | 60.3 | • | • | 9/23 | 10.7 | 36 | 1 |
| LSD (5%) | 6.0 | • | • | 1.4 | 0.4 | 3.1 | • |
| C.V. | 7.3 | • | • | • | 2.7 | 6.5 | • |
| Relative Maturity 4.6–4.9 | | | | | | | |
| AG46XF3 | 74.4 | • | • | 9/26 | 13.2 | 38 | 1 |
| Dyna-Gro S47XF23S | 71.3 | • | • | 9/26 | 12.8 | 37 | 1 |
| Progeny P4691XFS | 70.6 | • | • | 9/28 | 13.2 | 43 | 1 |
| Pioneer P46A20LX | 70.4 | • | • | 9/28 | 13.3 | 39 | 1 |
| DONMARIO DM48F53 | 70.3 | • | • | 9/26 | 12.7 | 34 | 1 |
| NK48-H3XFS | 70.0 | • | • | 9/28 | 13.0 | 37 | 1 |
| Pioneer P47A64X | 69.9 | 76.4 | • | 9/28 | 13.0 | 47 | 1 |
| USG 7463XFS | 69.7 | • | • | 9/26 | 13.2 | 42 | 1 |
| Revere 4826XFS | 69.5 | • | • | 9/30 | 12.8 | 37 | 1 |
| Integra 54660NS | 69.2 | 78.4 | 78.9 | 9/26 | 13.7 | 36 | 1 |
| Progeny P4732XF | 69.2 | • | • | 9/28 | 13.2 | 37 | 1 |
| Armor 46-F96 | 68.3 | • | • | 9/26 | 13.1 | 41 | 1 |
| Integra 54891NS | 68.1 | 75.9 | 76.4 | 9/27 | 12.4 | 43 | 1 |
| DELTA GROW 46XF18 | 68.0 | • | • | 9/26 | 13.0 | 40 | 1 |
| DELTA GROW 46X65/STS | 67.3 | 77.3 | 76.9 | 9/25 | 12.9 | 37 | 1 |
| Revere 4806XS | 66.6 | 74.3 | 73.7 | 9/30 | 13.0 | 39 | 1 |
| USG 7481XF | 66.6 | 74.3 | • | 9/26 | 13.0 | 39 | 1 |
| Innvincit MEX46332XF | 66.4 | • | • | 9/26 | 13.1 | 37 | 1 |
| Integra 74731NS | 66.3 | 73.4 | • | 9/28 | 13.0 | 37 | 1 |
| Progeny P4806XFS | 66.3 | 74.4 | • | 9/28 | 12.8 | 40 | 1 |
| Eagle Seed ES4875XF | 66.1 | 74.5 | • | 9/28 | 12.9 | 37 | 1 |
| Dyna-Gro S46XS60 | 66.1 | 75.4 | 74.6 | 9/26 | 12.9 | 37 | 1 |
| Armor 48-D25 | 66.0 | 74.1 | 75.4 | 9/25 | 12.9 | 39 | 1 |
| Integra 74893NS | 65.8 | • | • | 9/28 | 12.7 | 40 | 1 |
| Integra 74621NS | 65.5 | 76.2 | • | 9/26 | 12.8 | 41 | 1 |

Continued

Table 15. Performance of Irrigated Soybean Varieties and Strains, Northeast Research and Extension Center, Keiser, Ark., 2022, Continued.

| Variety/Experimental Line | 2022 | 2-Year | 3-Year | Maturity Date | Moisture (%) | Plant Height (in.) | Lodging ^d |
|---|------|----------------------------------|----------------------|---------------|--------------|--------------------|----------------------|
| | | Average ^b (bu./ac) | Average ^c | | | | |
| Relative Maturity 4.6–4.9, continued | | | | | | | |
| Revere 4795XS | 65.5 | 77.1 | 75.6 | 9/30 | 12.7 | 33 | 1 |
| Progeny P4798XF | 65.2 | • | • | 9/28 | 12.4 | 41 | 1 |
| Armor 49-F37 | 65.2 | • | • | 9/27 | 12.7 | 38 | 1 |
| DELTA GROW 48XF33/STS | 64.7 | • | • | 9/27 | 13.1 | 40 | 1 |
| Revere 4727XF | 64.7 | • | • | 9/27 | 12.5 | 36 | 1 |
| Innvincit MEX49992XF | 64.4 | • | • | 9/29 | 12.7 | 31 | 1 |
| Progeny P4821RX | 63.7 | 74.4 | 74.2 | 9/28 | 13.1 | 40 | 1 |
| Dyna-Gro S46XF31S | 63.5 | 75.1 | • | 9/26 | 12.9 | 45 | 1 |
| Progeny P4604XFS | 63.4 | 73.9 | • | 9/28 | 13.1 | 38 | 1 |
| NK47-Z1XF | 63.3 | • | • | 9/28 | 13.1 | 41 | 1 |
| Revere 4925XF | 63.3 | • | • | 9/30 | 13.3 | 42 | 1 |
| DELTA GROW 48X45 | 62.9 | 74.3 | 73.9 | 9/28 | 12.9 | 34 | 1 |
| Progeny P4951XFS | 62.8 | • | • | 9/28 | 12.4 | 35 | 1 |
| Progeny P4844XFS | 62.6 | • | • | 9/28 | 12.5 | 35 | 1 |
| Axis 4613XF | 62.5 | • | • | 9/26 | 13.1 | 36 | 1 |
| AG49XF3 | 62.4 | • | • | 9/28 | 12.3 | 42 | 1 |
| Axis 4813XFS | 62.4 | • | • | 9/26 | 12.3 | 36 | 1 |
| Revere 4606XFS | 62.3 | 75.1 | • | 9/27 | 13.0 | 43 | 1 |
| USG 7461XFS | 62.2 | 72.8 | • | 9/27 | 13.0 | 41 | 1 |
| Armor 46-F13 | 61.9 | 74.2 | • | 9/26 | 12.7 | 40 | 1 |
| Axis 4641XFS | 61.7 | 74.5 | • | 9/26 | 12.6 | 41 | 1 |
| Armor 48-F22 | 61.1 | 71.2 | • | 9/26 | 12.8 | 40 | 1 |
| Dyna-Gro S49XF82S | 60.8 | • | • | 9/27 | 12.6 | 39 | 1 |
| AG48XF3 | 60.5 | • | • | 9/27 | 12.7 | 37 | 1 |
| DELTA GROW 49XF29/STS | 60.3 | • | • | 9/28 | 12.5 | 35 | 1 |
| AG47XF3 | 59.0 | • | • | 9/26 | 12.4 | 43 | 1 |
| S16-7922C | 58.5 | 71.1 | • | 9/30 | 13.6 | 26 | 1 |
| Pioneer P48A14E | 55.8 | • | • | 9/28 | 11.9 | 33 | 1 |
| Dyna-Gro S47XF52 | 55.5 | • | • | 9/26 | 12.9 | 45 | 1 |
| DELTA GROW 48E60 | 54.9 | • | • | 9/29 | 12.8 | 29 | 1 |
| R18-14502 | 54.6 | 64.6 | • | 9/28 | 12.9 | 40 | 1 |
| S17-2193C | 53.5 | • | • | 9/27 | 12.0 | 41 | 1 |
| PL2E472 | 53.3 | • | • | 9/28 | 13.1 | 28 | 1 |
| R18C-13665 | 53.2 | • | • | 9/28 | 12.5 | 35 | 1 |
| DELTA GROW 48E59 | 53.1 | 67.5 | • | 9/28 | 12.7 | 30 | 1 |

Continued

Table 15. Performance of Irrigated Soybean Varieties and Strains, Northeast Research and Extension Center, Keiser, Ark., 2022, Continued.

| Variety/Experimental Line | 2022 | 2-Year Average ^b (bu./ac) | 3-Year Average ^c | Maturity Date | Moisture (%) | Plant Height (in.) | Lodging ^d |
|---|------|---|-----------------------------|---------------|--------------|--------------------|----------------------|
| Relative Maturity 4.6–4.9, continued | | | | | | | |
| S16-13165C | 53.0 | • | • | 9/28 | 13.5 | 40 | 1 |
| DELTA GROW 48E49/STS | 52.8 | 65.4 | 62.9 | 9/29 | 13.0 | 28 | 1 |
| DELTA GROW 49E80 | 52.0 | • | • | 9/28 | 11.6 | 28 | 1 |
| Progeny P4775E3S | 51.4 | 66.2 | 64.3 | 9/28 | 13.0 | 34 | 1 |
| Dyna-Gro S46ES91 | 51.0 | 65.0 | 64.1 | 9/28 | 13.0 | 37 | 1 |
| DELTA GROW 46E10 | 50.4 | 61.0 | • | 9/26 | 12.5 | 29 | 1 |
| NK49-T6E3S | 50.4 | • | • | 9/28 | 12.9 | 31 | 2 |
| R18C-13253 | 49.8 | • | • | 9/28 | 11.2 | 34 | 1 |
| DELTA GROW 47E20/STS | 49.7 | 64.4 | 62.7 | 9/28 | 12.9 | 36 | 1 |
| Progeny P4932E | 49.5 | • | • | 9/28 | 11.9 | 27 | 1 |
| USG 7493ETS | 48.9 | • | • | 9/30 | 12.3 | 38 | 2 |
| Dyna-Gro S49EN12 | 48.2 | • | • | 9/30 | 12.2 | 34 | 1 |
| Innotech 4918E3 | 48.1 | • | • | 9/28 | 13.1 | 28 | 1 |
| R19C-3148 | 47.9 | • | • | 9/28 | 12.4 | 35 | 1 |
| Innotech 4737E3 | 47.2 | • | • | 9/28 | 11.6 | 26 | 1 |
| DELTA GROW 47E35/STS | 46.5 | • | • | 9/29 | 11.1 | 31 | 1 |
| R18-14753 | 46.3 | 60.6 | • | 9/28 | 13.7 | 31 | 1 |
| R19C-3191 | 46.3 | • | • | 9/28 | 12.6 | 37 | 1 |
| R19C-3159 | 45.5 | • | • | 9/28 | 12.4 | 35 | 1 |
| R19C-3152 | 45.3 | • | • | 9/28 | 12.4 | 36 | 1 |
| R18-14147 | 44.6 | • | • | 9/28 | 12.7 | 36 | 1 |
| R19C-3151 | 42.7 | • | • | 9/28 | 12.3 | 33 | 1 |
| R18C-144 | 40.9 | • | • | 9/28 | 12.9 | 41 | 2 |
| R18-5798 | 40.3 | • | • | 9/28 | 13.3 | 42 | 1 |
| Grand Mean | 59.3 | • | • | 9/28 | 12.8 | 37 | 1 |
| LSD (5%) | 5.8 | • | • | • | 0.3 | 4.0 | 0 |
| C.V. | 7.3 | • | • | • | 2.0 | 8.0 | • |
| Relative Maturity 5.0–5.9 | | | | | | | |
| Revere 5029XF | 60.8 | • | • | 9/28 | 13.0 | 45 | 1 |
| DELTA GROW 52XF22/STS | 60.7 | • | • | 9/25 | 12.1 | 38 | 1 |
| Progeny P5150XFS | 59.4 | • | • | 9/27 | 12.1 | 38 | 1 |
| Dyna-Gro S54XF62 | 59.3 | • | • | 10/1 | 12.5 | 25 | 1 |
| Armor 51-F88 | 57.1 | • | • | 9/25 | 12.0 | 41 | 1 |

Continued

Table 15. Performance of Irrigated Soybean Varieties and Strains, Northeast Research and Extension Center, Keiser, Ark., 2022, Continued.

| Variety/Experimental Line | 2022 | 2-Year | 3-Year | Maturity Date | Moisture (%) | Plant Height (in.) | Lodging ^d |
|---|------|----------------------------------|----------------------|---------------|--------------|--------------------|----------------------|
| | | Average ^b (bu./ac) | Average ^c | | | | |
| Relative Maturity 5.0–5.9, continued | | | | | | | |
| Progeny P5056XFS | 56.7 | • | • | 9/28 | 13.2 | 42 | 1 |
| Progeny P5554RX | 56.4 | • | • | 10/1 | 12.3 | 31 | 1 |
| DELTA GROW 54XF20 | 56.2 | • | • | 10/1 | 12.5 | 27 | 1 |
| Progeny P5016RXS | 54.4 | • | • | 9/28 | 12.4 | 42 | 1 |
| S16-14801C | 53.7 | 67.1 | • | 10/1 | 13.1 | 23 | 1 |
| Revere 5614XF | 52.3 | 60.1 | • | 10/1 | 12.1 | 28 | 1 |
| R19C-3085 | 52.0 | • | • | 9/30 | 12.8 | 22 | 1 |
| Innotech 5143E3 | 50.7 | • | • | 9/30 | 11.4 | 29 | 1 |
| Progeny P5045E3S | 48.8 | • | • | 9/29 | 11.9 | 35 | 1 |
| R18-13337 | 48.5 | • | • | 9/28 | 12.4 | 22 | 1 |
| R18-14272 | 48.4 | • | • | 9/28 | 12.3 | 35 | 2 |
| DELTA GROW 51E30 | 48.0 | • | • | 10/1 | 12.3 | 29 | 1 |
| R18-3332 | 46.8 | • | • | 9/27 | 13.1 | 35 | 1 |
| Innotech 5360E3 | 46.5 | • | • | 10/1 | 11.7 | 28 | 1 |
| Revere 5429E3 | 46.1 | • | • | 10/1 | 12.0 | 36 | 2 |
| DELTA GROW 52E80 | 44.8 | 60.0 | • | 9/29 | 11.8 | 31 | 1 |
| Progeny P5521E3 | 43.9 | • | • | 10/1 | 12.3 | 37 | 2 |
| R19C-3169 | 43.7 | • | • | 9/30 | 11.7 | 36 | 1 |
| R19C-3194 | 43.6 | • | • | 9/29 | 11.6 | 35 | 1 |
| R19C-3144 | 43.4 | • | • | 9/30 | 11.5 | 31 | 1 |
| R18-14286 | 41.0 | • | • | 9/30 | 11.8 | 36 | 1 |
| R19C-3182 | 40.9 | • | • | 9/30 | 11.6 | 34 | 1 |
| PL2E502 | 40.0 | • | • | 9/28 | 12.1 | 35 | 2 |
| R17-283F | 36.9 | 53.8 | • | 9/30 | 12.2 | 23 | 1 |
| Grand Mean | 50.0 | • | • | 9/29 | 12.2 | 33 | 1 |
| LSD (5%) | 5.0 | • | • | 1.2 | 0.3 | 3.4 | 0 |
| C.V. | 7.3 | • | • | • | 2.0 | 7.5 | • |

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

^b Average yield from 2021 and 2022.

^c Average yield from 2020, 2021, 2022.

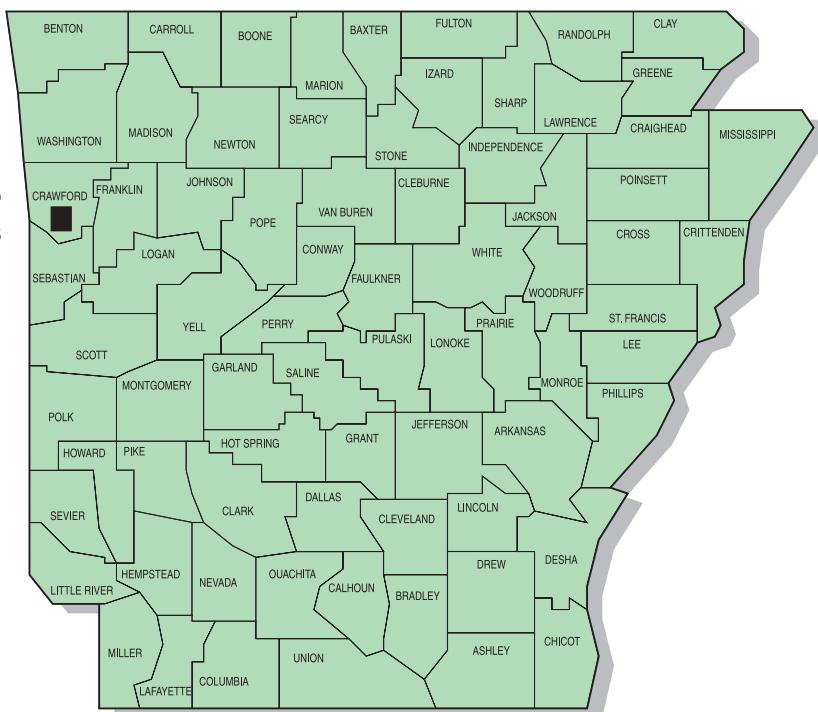
^d 1 = almost all plants erect; 2 = either all plants leaning slightly, or a few plants down; 3 = either all plants leaning moderately, or 25–50% of plants down; 4 = either all plants leaning considerably, or 50–80% of plants down; 5 = all plants down badly.

• = data not available.

Kibler: Vegetable Research Station (VRS)

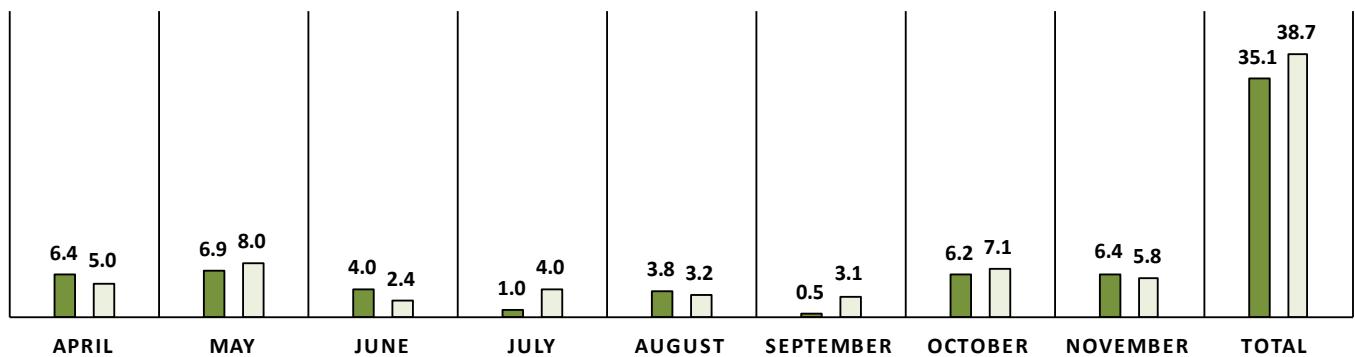
Irrigated Soybean Varieties and Strains, 2022

VRS
Kibler, Arkansas



2022 KIBLER MONTHLY PRECIPITATION

■ Observed (in.) □ 10-yr Average (in.)



| Soil Series |
|--|
| Dardanelle, silt loam |
| Previous Crop |
| Soybeans |
| Row Spacing |
| Twin, 36 in. |
| Planting Date |
| May 31 |
| Irrigation Dates |
| June 23; July 1, 7, 14, 19, 26; Aug. 9, 12, 16 |

| Harvest | Date |
|-----------------------------|---------|
| Relative Maturity (4.0–4.5) | Oct. 20 |
| Relative Maturity (4.6–4.9) | Oct. 21 |
| Relative Maturity (5.0–5.9) | Oct. 20 |
| Herbicide Application(s) | Date |
| Charger Max® 20 oz/ac | June 1 |
| Pursuit AS® 4 oz/ac | June 1 |
| Reflex® 24 oz/ac | July 5 |

Table 16. Performance of Irrigated Soybean Varieties and Strains, Vegetable Research Station, Kibler, Ark., 2022.

| Variety/Experimental Line | 2022 | 2-Year | 3-Year | Maturity | Moisture (%) | Plant Height (in.) |
|----------------------------------|------|----------------------------------|----------------------|----------|-----------------|--------------------------|
| | | Average ^a (bu./ac) | Average ^b | Date | | |
| Relative Maturity 4.0–4.5 | | | | | | |
| NK44-Q5E3S | 81.5 | • | • | 10/6 | 10.3 | 38 |
| NK43-Y9XFS | 80.7 | • | • | 10/5 | 10.9 | 40 |
| Dyna-Gro S43XS70 | 80.6 | 79.4 | 78.3 | 10/6 | 10.5 | 42 |
| Pioneer P45A40LX | 80.2 | • | • | 10/4 | 10.6 | 43 |
| NK42-T5XF | 79.5 | • | • | 10/4 | 10.5 | 39 |
| Dyna-Gro S42XF93S | 78.1 | • | • | 10/10 | 10.2 | 42 |
| Progeny P4505RXS | 77.5 | 75.4 | 74.8 | 10/5 | 10.2 | 45 |
| Pioneer P42A84E | 77.2 | • | • | 10/3 | 10.1 | 41 |
| Revere 4415XF | 76.9 | 77.0 | • | 10/5 | 10.9 | 39 |
| Progeny P4202XFS | 76.8 | • | • | 10/6 | 9.4 | 41 |
| DELTA GROW 45E33 | 75.3 | • | • | 10/4 | 10.6 | 39 |
| Pioneer P40A36E | 75.0 | • | • | 9/28 | 10.1 | 41 |
| NK44-J4XFS | 74.6 | • | • | 9/30 | 10.9 | 41 |
| Axis 4112XFSTSTS | 74.5 | • | • | 10/6 | 10.1 | 40 |
| Dyna-Gro S45XF02 | 73.5 | • | • | 10/5 | 10.4 | 38 |
| Revere 4526XF | 73.2 | • | • | 10/5 | 10.6 | 44 |
| AG45XF3 | 73.0 | • | • | 10/4 | 10.5 | 43 |
| Pioneer P44A21X | 72.9 | • | • | 10/2 | 10.2 | 42 |
| DONMARLO DM45F23 | 72.7 | • | • | 10/1 | 10.5 | 40 |
| Integra 74383N | 72.6 | • | • | 10/3 | 10.8 | 44 |
| Armor 44-D49 | 71.8 | 75.4 | 77.0 | 10/9 | 10.1 | 45 |
| Progeny P4521XFS | 71.6 | 74.4 | • | 10/5 | 9.8 | 42 |
| NK45-V9E3 | 71.4 | • | • | 10/4 | 11.0 | 40 |
| Pioneer P45A79E | 71.1 | • | • | 10/4 | 10.9 | 39 |
| Pioneer P44A91E | 71.0 | • | • | 10/2 | 9.6 | 38 |
| Progeny P4200RXS | 70.9 | • | • | 10/1 | 10.2 | 44 |
| Axis 4522XF | 70.7 | 71.0 | • | 10/3 | 10.9 | 39 |
| NK43-V8XF | 70.1 | • | • | 10/4 | 10.8 | 45 |
| NK45-P9XF | 69.7 | • | • | 10/2 | 10.3 | 42 |
| Pioneer P40A90LX | 69.1 | • | • | 9/30 | 10.0 | 42 |
| Armor 45-F02 | 68.9 | • | • | 10/5 | 10.6 | 42 |
| R19C-1012 | 68.5 | • | • | 10/10 | 10.7 | 48 |
| Integra 74142NS | 68.2 | • | • | 10/1 | 10.5 | 37 |
| Innvincit MEX44122XF | 67.8 | • | • | 10/5 | 10.5 | 43 |
| Eagle Seed ES4120XF | 66.2 | • | • | 10/3 | 10.7 | 41 |

Continued

Table 16. Performance of Irrigated Soybean Varieties and Strains, Vegetable Research Station, Kibler, Ark., 2022, Continued.

| Variety/Experimental Line | 2022 | 2-Year | 3-Year | Maturity | Moisture (%) | Plant Height (in.) |
|---|------|----------------------------------|----------------------|----------|-----------------|--------------------------|
| | | Average ^a (bu./ac) | Average ^b | Date | | |
| Relative Maturity 4.0–4.5, continued | | | | | | |
| Dyna-Gro S45ES10 | 64.8 | 64.5 | 66.1 | 10/8 | 10.5 | 39 |
| Dyna-Gro S41EN72 | 63.1 | • | • | 10/1 | 10.5 | 39 |
| Progeny P4444RXS | 62.9 | • | • | 10/2 | 10.6 | 38 |
| Progeny P4431E3 | 62.1 | 63.1 | • | 9/30 | 9.9 | 40 |
| R18C-11737 | 56.1 | • | • | 9/28 | 11.1 | 38 |
| DELTA GROW 44XF41 | 55.6 | • | • | 9/29 | 10.5 | 42 |
| Grand Mean | 71.7 | • | • | 10/3 | 10.4 | 41 |
| LSD (5%) | 10.8 | • | • | 4 | 0.4 | 3.1 |
| C.V. | 11.1 | • | • | 1.1 | 2.7 | 5.5 |
| Relative Maturity 4.6–4.9 | | | | | | |
| AG46XF3 | 87.9 | • | • | 10/10 | 11.1 | 42 |
| Pioneer P46A20LX | 87.9 | • | • | 10/7 | 11.1 | 40 |
| AG49XF3 | 87.4 | • | • | 10/15 | 9.3 | 45 |
| Integra 74893NS | 87.2 | • | • | 10/10 | 10.5 | 43 |
| Integra 54660NS | 85.7 | 81.5 | 79.3 | 10/10 | 10.3 | 39 |
| Pioneer P48A14E | 84.3 | • | • | 10/12 | 9.8 | 43 |
| Pioneer P47A64X | 84.0 | 82.7 | • | 10/10 | 10.4 | 46 |
| NK48-H3XFS | 81.6 | • | • | 10/11 | 10.3 | 37 |
| Revere 4826XFS | 80.8 | • | • | 10/11 | 10.7 | 42 |
| Innictis MEX49992XF | 80.3 | • | • | 10/10 | 10.1 | 39 |
| DELTA GROW 49E80 | 80.2 | • | • | 10/8 | 9.9 | 37 |
| Integra 54891NS | 80.2 | 84.9 | 82.0 | 10/9 | 10.2 | 43 |
| Revere 4795XS | 79.9 | 78.7 | 78.2 | 10/10 | 10.3 | 40 |
| Revere 4925XF | 79.7 | • | • | 10/12 | 11.2 | 43 |
| Progeny P4798XF | 78.7 | • | • | 10/12 | 10.1 | 45 |
| USG 7493ETS | 78.7 | • | • | 10/9 | 10.3 | 49 |
| DELTA GROW 48E60 | 78.7 | • | • | 10/8 | 11.3 | 39 |
| AG48XF3 | 78.7 | • | • | 10/10 | 10.7 | 40 |
| Progeny P4732XF | 78.4 | • | • | 10/4 | 10.9 | 43 |
| Integra 74621NS | 78.2 | 76.9 | • | 10/11 | 10.3 | 44 |
| Dyna-Gro S47XF23S | 78.1 | • | • | 10/7 | 10.3 | 40 |
| DONMARIO DM48F53 | 78.0 | • | • | 10/4 | 10.8 | 39 |
| Innictis MEX46332XF | 78.0 | • | • | 10/6 | 10.3 | 40 |
| S16-7922C | 77.2 | 75.8 | • | 10/11 | 11.2 | 41 |
| Revere 4606XFS | 77.2 | 76.0 | • | 10/8 | 11.3 | 44 |

Continued

Table 16. Performance of Irrigated Soybean Varieties and Strains, Vegetable Research Station, Kibler, Ark., 2022, Continued.

| Variety/Experimental Line | 2022 | 2-Year | 3-Year | Maturity | Moisture (%) | Plant Height (in.) |
|---|------|----------------------------------|----------------------|----------|-----------------|--------------------------|
| | | Average ^a (bu./ac) | Average ^b | Date | | |
| Relative Maturity 4.6–4.9, continued | | | | | | |
| DELTA GROW 46X65/STS | 77.1 | 78.7 | 76.7 | 10/9 | 10.4 | 37 |
| DELTA GROW 48E59 | 76.3 | 79.7 | • | 10/10 | 10.7 | 38 |
| Revere 4806XS | 76.0 | 82.9 | 77.7 | 10/11 | 10.5 | 41 |
| NK49-T6E3S | 75.9 | • | • | 10/10 | 10.9 | 43 |
| Progeny P4691XFS | 75.5 | • | • | 10/6 | 10.6 | 43 |
| Axis 4613XF | 75.4 | • | • | 10/8 | 10.7 | 43 |
| Axis 4813XFS | 75.2 | • | • | 10/10 | 9.4 | 37 |
| Armor 49-F37 | 75.0 | • | • | 10/11 | 10.7 | 40 |
| DELTA GROW 46XF18 | 74.8 | • | • | 10/7 | 10.8 | 42 |
| Progeny P4604XFS | 74.6 | 78.5 | • | 10/10 | 10.4 | 43 |
| USG 7461XFS | 74.4 | 77.4 | • | 10/12 | 10.4 | 43 |
| S17-2193C | 74.4 | • | • | 10/9 | 10.5 | 51 |
| Progeny P4806XFS | 74.4 | 74.8 | • | 10/12 | 10.9 | 42 |
| AG47XF3 | 74.3 | • | • | 10/11 | 10.1 | 43 |
| USG 7463XFS | 74.1 | • | • | 10/6 | 10.8 | 44 |
| Dyna-Gro S49EN12 | 74.1 | • | • | 10/11 | 10.7 | 41 |
| Armor 46-F13 | 73.6 | 71.0 | • | 10/11 | 10.4 | 42 |
| S16-13165C | 73.5 | • | • | 10/11 | 10.9 | 53 |
| Axis 4641XFS | 73.5 | 74.3 | • | 10/10 | 10.5 | 37 |
| Dyna-Gro S46XS60 | 73.4 | 76.2 | 74.2 | 10/8 | 10.7 | 40 |
| Armor 48-D25 | 73.3 | 74.2 | 73.6 | 10/8 | 10.2 | 39 |
| Revere 4727XF | 73.2 | • | • | 10/9 | 10.1 | 41 |
| NK47-Z1XF | 72.9 | • | • | 10/7 | 10.5 | 38 |
| DELTA GROW 48E49/STS | 72.6 | 71.9 | 68.5 | 10/8 | 10.7 | 42 |
| DELTA GROW 49XF29/STS | 72.4 | • | • | 10/10 | 9.9 | 38 |
| Dyna-Gro S49XF82S | 72.1 | • | • | 10/8 | 9.9 | 37 |
| Dyna-Gro S46XF31S | 71.9 | 75.7 | • | 10/9 | 10.9 | 40 |
| Progeny P4821RX | 71.9 | 72.0 | 72.6 | 10/11 | 10.5 | 40 |
| PL2E472 | 71.8 | • | • | 10/8 | 10.6 | 39 |
| DELTA GROW 48X45 | 71.1 | 74.1 | 74.3 | 10/11 | 10.5 | 40 |
| R19C-3152 | 71.0 | • | • | 10/11 | 10.6 | 44 |
| DELTA GROW 47E35/STS | 71.0 | • | • | 10/11 | 9.6 | 37 |
| Eagle Seed ES4875XF | 70.8 | 71.1 | • | 10/10 | 10.7 | 39 |
| Progeny P4951XFS | 70.7 | • | • | 10/9 | 10.2 | 38 |
| DELTA GROW 48XF33/STS | 70.7 | • | • | 10/6 | 10.4 | 41 |

Continued

Table 16. Performance of Irrigated Soybean Varieties and Strains, Vegetable Research Station, Kibler, Ark., 2022, Continued.

| Variety/Experimental Line | 2022 | 2-Year | 3-Year | Maturity | Moisture (%) | Plant Height (in.) |
|---|------|----------------------------------|----------------------|----------|-----------------|--------------------------|
| | | Average ^a (bu./ac) | Average ^b | Date | | |
| Relative Maturity 4.6–4.9, continued | | | | | | |
| Progeny P4775E3S | 70.3 | 71.0 | 69.0 | 10/5 | 10.8 | 43 |
| Progeny P4932E | 70.0 | • | • | 10/10 | 9.8 | 33 |
| R18C-13665 | 69.3 | • | • | 10/9 | 10.2 | 49 |
| DELTA GROW 47E20/STS | 68.8 | 70.3 | 67.8 | 10/7 | 10.6 | 43 |
| R18-14753 | 68.7 | 68.6 | • | 10/4 | 12.0 | 40 |
| Dyna-Gro S46ES91 | 68.5 | 69.1 | 67.2 | 10/6 | 11.0 | 43 |
| Armor 46-F96 | 68.3 | • | • | 10/6 | 10.7 | 36 |
| Progeny P4844XFS | 66.9 | • | • | 10/9 | 9.4 | 37 |
| Armor 48-F22 | 66.7 | 71.2 | • | 10/11 | 10.5 | 40 |
| R18C-13253 | 66.2 | • | • | 10/6 | 9.9 | 45 |
| R19C-3191 | 66.0 | • | • | 10/9 | 9.8 | 41 |
| Integra 74731NS | 65.7 | 70.2 | • | 10/10 | 10.5 | 38 |
| Innotech 4918E3 | 65.3 | • | • | 10/9 | 10.9 | 43 |
| R18-5798 | 65.2 | • | • | 10/13 | 11.5 | 52 |
| R19C-3151 | 65.0 | • | • | 10/10 | 10.0 | 41 |
| Innotech 4737E3 | 64.3 | • | • | 10/9 | 10.1 | 34 |
| R18C-144 | 63.7 | • | • | 10/8 | 11.4 | 51 |
| Dyna-Gro S47XF52 | 63.7 | • | • | 10/8 | 10.5 | 44 |
| USG 7481XF | 63.0 | 68.6 | • | 10/6 | 11.1 | 45 |
| R19C-3159 | 62.8 | • | • | 10/12 | 10.3 | 43 |
| R19C-3148 | 62.0 | • | • | 10/11 | 9.7 | 39 |
| R18-14147 | 61.2 | • | • | 10/7 | 11.6 | 44 |
| DELTA GROW 46E10 | 55.8 | 58.4 | • | 10/3 | 10.3 | 40 |
| R18-14502 | 54.5 | 63.6 | • | 10/6 | 10.7 | 42 |
| Grand Mean | 73.3 | • | • | 10/8 | 10.5 | 41 |
| LSD | 8.3 | • | • | 24 | 0.6 | 4.5 |
| C.V. | 8.4 | • | • | • | 4.4 | 8.0 |
| Relative Maturity 5.0–5.9 | | | | | | |
| Progeny P5045E3S | 82.5 | • | • | 10/13 | 9.9 | 49 |
| Armor 51-F88 | 81.2 | • | • | 10/12 | 10.0 | 45 |
| Progeny P5521E3 | 78.8 | • | • | 10/16 | 10.5 | 49 |
| DELTA GROW 52E80 | 77.3 | 72.0 | • | 10/11 | 9.6 | 42 |
| Revere 5029XF | 76.5 | • | • | 10/10 | 10.6 | 46 |

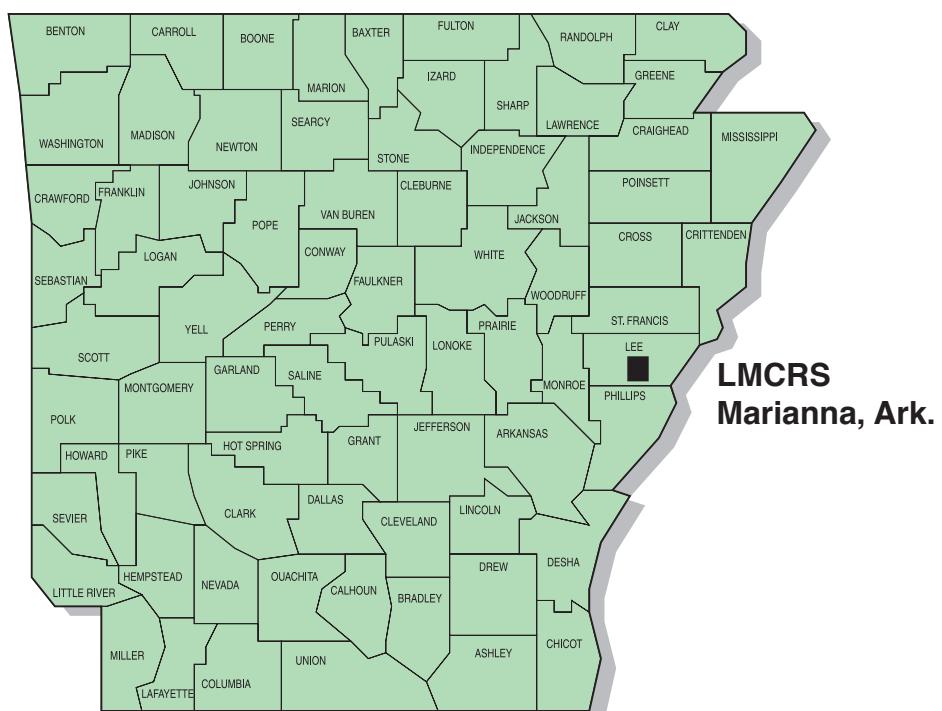
Continued

Table 16. Performance of Irrigated Soybean Varieties and Strains, Vegetable Research Station, Kibler, Ark., 2022, Continued.

| Variety/Experimental Line | 2022 | 2-Year | 3-Year | Maturity | Moisture (%) | Plant Height (in.) |
|---|------|----------------------------------|----------------------|----------|-----------------|--------------------------|
| | | Average ^a (bu./ac) | Average ^b | Date | | |
| Relative Maturity 5.0–5.9, continued | | | | | | |
| Innotech 5143E3 | 75.2 | • | • | 10/9 | 9.5 | 44 |
| DELTA GROW 52XF22/STS | 74.6 | • | • | 10/10 | 9.8 | 46 |
| Progeny P5150XFS | 73.3 | • | • | 10/6 | 9.8 | 42 |
| S16-14801C | 72.4 | 74.7 | • | 10/8 | 10.7 | 34 |
| Progeny P5056XFS | 71.9 | • | • | 10/13 | 10.8 | 46 |
| Revere 5429E3 | 71.1 | • | • | 10/14 | 10.6 | 50 |
| DELTA GROW 51E30 | 70.8 | • | • | 10/9 | 10.0 | 43 |
| R18-14286 | 66.4 | • | • | 10/15 | 10.2 | 49 |
| R19C-3085 | 66.4 | • | • | 10/7 | 10.6 | 36 |
| R19C-3169 | 64.5 | • | • | 10/11 | 10.3 | 46 |
| R19C-3194 | 64.0 | • | • | 10/10 | 9.9 | 43 |
| Revere 5614XF | 62.2 | 71.3 | • | 10/10 | 9.8 | 28 |
| PL2E502 | 61.2 | • | • | 10/5 | 10.4 | 45 |
| R18-14272 | 61.1 | • | • | 10/12 | 10.3 | 45 |
| R19C-3182 | 60.9 | • | • | 10/10 | 9.7 | 45 |
| Progeny P5016RXS | 60.9 | • | • | 10/9 | 10.0 | 44 |
| Progeny P5554RX | 60.5 | • | • | 10/10 | 9.8 | 38 |
| Dyna-Gro S54XF62 | 60.4 | • | • | 10/8 | 10.2 | 31 |
| R18-3332 | 60.1 | • | • | 10/9 | 10.2 | 45 |
| R19C-3144 | 59.6 | • | • | 10/7 | 9.4 | 44 |
| DELTA GROW 54XF20 | 59.5 | • | • | 10/10 | 10.1 | 33 |
| Innotech 5360E3 | 57.7 | • | • | 10/12 | 9.7 | 37 |
| R18-13337 | 57.3 | • | • | 10/4 | 10.4 | 34 |
| R17-283F | 54.2 | 65.2 | • | 10/12 | 10.5 | 38 |
| Grand Mean | 67.1 | • | • | 10/10 | 10.1 | 41 |
| LSD (5%) | 8.3 | • | • | 4.6 | 0.5 | 3.2 |
| C.V. | 9.0 | • | • | 1.2 | 3.9 | 5.6 |

^a Average yield from 2021 and 2022.^b Average yield from 2020, 2021, 2022.

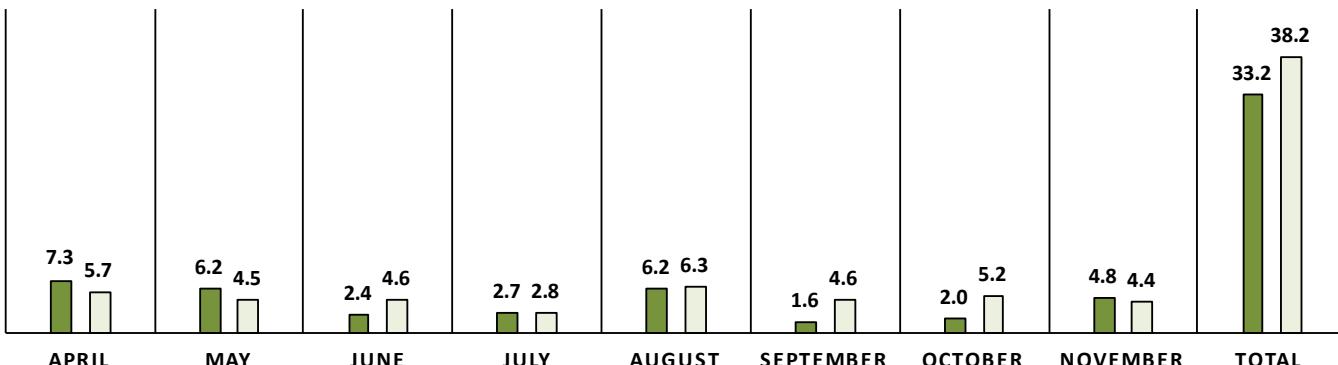
• = data not available.

Marianna: Lon Mann Cotton Research Station (LMCRS)**Irrigated Soybean Varieties and Strains, 2022**

**LMCRS
Marianna, Ark.**

2022 MARIANNA MONTHLY PRECIPITATION

■ Observed (in.) □ 10-yr Average (in.)



| Soil Series |
|-------------------|
| Loring, silt loam |
| Row Spacing |
| 38 in. |
| Planting Date |
| May 10 |
| Irrigation Dates |
| July 8, 27 |

| Harvest | Date |
|--|----------------|
| Relative Maturity (RM) (4.0-4.5), RM (4.6-4.9), RM (5.0-5.9) | Oct. 6, 19, 19 |
| Fertilizer Application(s) | Date |
| 0-0-60 100 lb | May 4 |
| Herbicide Application(s) | Date |
| Dual® 1 pt, Valor® 2 oz | May 13 |
| Dual® 1 pt, Valor® 2 oz | May 31 |
| Flexstar® 1.5 pt | June 13 |
| Flexstar® 2.0 pt | June 29 |
| Insecticide Application(s) | Date |
| Vantacor® 1.2 oz | Aug. 8 |

Table 17. Performance of Irrigated Soybean Varieties and Strains, Lon Mann Cotton Research Station, Marianna, Ark., 2022.

| Variety/Experimental Line | 2022 | 2-Year Average ^a (bu./ac) | 3-Year Average ^b (bu./ac) | Moisture (%) | Lodging Score ^c | Plant Height (in.) |
|----------------------------------|------|---|---|-----------------|-------------------------------|--------------------------|
| | | | | | | |
| Relative Maturity 4.0–4.5 | | | | | | |
| Pioneer P44A21X | 72.2 | • | • | 6.6 | • | 36 |
| Revere 4526XF | 70.6 | • | • | 7.6 | • | 37 |
| AG45XF3 | 70.1 | • | • | 8.0 | • | 34 |
| NK43-Y9XFS | 69.6 | • | • | 7.8 | • | 32 |
| Dyna-Gro S42XF93S | 69.5 | • | • | 7.8 | • | 33 |
| NK43-V8XF | 69.3 | • | • | 7.7 | • | 35 |
| Armor 45-F02 | 69.2 | • | • | 8.0 | • | 34 |
| Axis 4522XF | 68.9 | 63.5 | • | 7.5 | • | 32 |
| Dyna-Gro S43XS70 | 68.8 | 67.1 | 67.8 | 6.9 | • | 33 |
| Eagle Seed ES4120XF | 68.5 | • | • | 7.1 | • | 33 |
| Progeny P4505RXS | 67.7 | 63.9 | 61.1 | 7.5 | • | 34 |
| Revere 4415XF | 67.0 | 62.8 | • | 7.6 | • | 32 |
| Axis 4112XFSTSTS | 66.3 | • | • | 7.6 | • | 32 |
| Progeny P4200RXS | 65.5 | • | • | 7.8 | • | 34 |
| NK42-T5XF | 65.5 | • | • | 7.9 | • | 30 |
| NK44-J4XFS | 65.4 | • | • | 8.3 | • | 33 |
| Integra 74383N | 65.3 | • | • | 7.6 | • | 37 |
| DELTA GROW 44XF41 | 65.2 | • | • | 7.2 | • | 35 |
| Progeny P4521XFS | 65.1 | 59.7 | • | 6.2 | • | 38 |
| Progeny P4444RXS | 65.1 | • | • | 7.4 | • | 29 |
| Armor 44-D49 | 64.9 | 62.2 | 63.4 | 7.0 | • | 35 |
| DONMARIO DM45F23 | 64.8 | • | • | 8.2 | • | 31 |
| Pioneer P40A90LX | 64.7 | • | • | 7.2 | • | 32 |
| NK44-Q5E3S | 64.0 | • | • | 6.8 | • | 24 |
| Progeny P4202XFS | 63.3 | • | • | 6.3 | • | 37 |
| Dyna-Gro S45XF02 | 63.1 | • | • | 7.6 | • | 32 |
| NK45-V9E3 | 63.0 | • | • | 7.7 | • | 25 |
| Innictis MEX44122XF | 62.8 | • | • | 7.9 | • | 36 |
| NK45-P9XF | 62.1 | • | • | 6.9 | • | 37 |
| Integra 74142NS | 62.1 | • | • | 6.9 | • | 29 |
| Pioneer P45A40LX | 59.5 | • | • | 7.5 | • | 34 |
| Pioneer P45A79E | 58.5 | • | • | 7.1 | • | 26 |
| Dyna-Gro S45ES10 | 55.5 | 57.1 | 60.1 | 8.0 | • | 32 |
| Pioneer P42A84E | 54.7 | • | • | 9.0 | • | 25 |
| R18C-11737 | 53.3 | • | • | 8.4 | • | 23 |

Continued

Table 17. Performance of Irrigated Soybean Varieties and Strains, Lon Mann Cotton Research Station, Marianna, Ark., 2022, Continued.

| Variety/Experimental Line | 2022 | 2-Year Average ^a (bu./ac) | 3-Year Average ^b | Moisture (%) | Lodging Score ^c | Plant Height (in.) |
|---|------|---|-----------------------------|-----------------|-------------------------------|--------------------------|
| | | | | | (%) | |
| Relative Maturity 4.0–4.5, continued | | | | | | |
| Dyna-Gro S41EN72 | 52.0 | • | • | 8.0 | • | 23 |
| R19C-1012 | 52.0 | • | • | 8.0 | • | 35 |
| Progeny P4431E3 | 50.6 | 51.5 | • | 7.8 | • | 23 |
| Pioneer P44A91E | 50.2 | • | • | 6.4 | • | 25 |
| DELTA GROW 45E33 | 48.7 | • | • | 7.9 | • | 24 |
| Pioneer P40A36E | 40.3 | • | • | 8.0 | • | 22 |
| Grand Mean | 62.6 | • | • | 7.5 | • | 31 |
| LSD (5%) | 4.8 | • | • | 0.8 | • | 1.9 |
| C.V. | 5.7 | • | • | 7.6 | • | 4.5 |
| Relative Maturity 4.6–4.9 | | | | | | |
| NK48-H3XFS | 80.3 | • | • | 7.6 | 3 | 44 |
| Eagle Seed ES4875XF | 78.7 | 69.1 | • | 7.0 | 1 | 46 |
| Armor 46-F96 | 77.1 | • | • | 7.2 | 2 | 44 |
| Dyna-Gro S47XF23S | 77.1 | • | • | 6.6 | 2 | 43 |
| Pioneer P47A64X | 76.6 | 69.1 | • | 6.7 | 2 | 52 |
| Progeny P4691XFS | 76.2 | • | • | 6.4 | 2 | 47 |
| Revere 4795XS | 76.1 | 68.4 | 69.1 | 9.2 | 2 | 43 |
| DELTA GROW 46XF18 | 75.3 | • | • | 7.3 | 2 | 45 |
| Integra 74621NS | 74.9 | 68.5 | • | 7.1 | 2 | 45 |
| Dyna-Gro S46XF31S | 74.8 | 67.7 | • | 7.1 | 2 | 47 |
| Axis 4641XFS | 74.5 | 64.9 | • | 6.8 | 3 | 45 |
| Integra 74731NS | 74.1 | 67.0 | • | 7.4 | 1 | 44 |
| DELTA GROW 46X65/STS | 73.9 | 68.1 | 67.8 | 5.7 | 3 | 45 |
| DELTA GROW 48X45 | 73.9 | 69.1 | 69.6 | 7.7 | 2 | 42 |
| Dyna-Gro S46XS60 | 73.8 | 68.6 | 71.0 | 6.5 | 2 | 45 |
| Revere 4826XFS | 73.5 | • | • | 6.5 | 3 | 44 |
| Armor 48-D25 | 73.4 | 67.7 | 69.8 | 6.6 | 1 | 47 |
| Progeny P4932E | 73.3 | • | • | 6.2 | 2 | 30 |
| Axis 4613XF | 73.0 | • | • | 6.7 | 3 | 47 |
| USG 7481XF | 72.4 | 67.4 | • | 6.7 | 4 | 46 |
| Integra 54891NS | 72.4 | 66.1 | 66.7 | 6.4 | 2 | 49 |
| DONMARIO DM48F53 | 72.3 | • | • | 8.1 | 2 | 42 |
| Revere 4806XS | 72.0 | 66.7 | 67.9 | 6.4 | 1 | 47 |
| Progeny P4806XFS | 71.9 | 65.0 | • | 7.6 | 1 | 45 |
| Progeny P4821RX | 71.7 | 67.8 | 67.6 | 7.9 | 2 | 45 |

Continued

Table 17. Performance of Irrigated Soybean Varieties and Strains, Lon Mann Cotton Research Station, Marianna, Ark., 2022, Continued.

| Variety/Experimental Line | 2022 | 2-Year Average ^a (bu./ac) | 3-Year Average ^b | Moisture (%) | Lodging Score ^c | Plant Height (in.) |
|---|------|---|-----------------------------|-----------------|-------------------------------|--------------------------|
| | | | | | (%) | |
| Relative Maturity 4.6–4.9, continued | | | | | | |
| Revere 4727XF | 71.6 | • | • | 6.2 | 3 | 39 |
| USG 7463XFS | 71.5 | • | • | 7.1 | 3 | 48 |
| Integra 54660NS | 71.5 | 66.0 | 65.0 | 7.8 | 3 | 43 |
| DELTA GROW 49E80 | 71.2 | • | • | 6.3 | 2 | 33 |
| Innvincis MEX46332XF | 71.2 | • | • | 7.8 | 2 | 46 |
| Armor 46-F13 | 70.9 | 64.9 | • | 9.0 | 3 | 48 |
| Progeny P4844XFS | 70.7 | • | • | 5.6 | 3 | 41 |
| USG 7461XFS | 70.4 | 65.6 | • | 6.9 | 4 | 44 |
| AG46XF3 | 70.2 | • | • | 7.0 | 2 | 43 |
| Pioneer P46A20LX | 70.2 | • | • | 7.6 | 3 | 43 |
| Progeny P4732XF | 70.1 | • | • | 7.2 | 3 | 48 |
| NK47-Z1XF | 69.8 | • | • | 6.4 | 2 | 47 |
| PL2E472 | 69.2 | • | • | 7.9 | 3 | 36 |
| Armor 48-F22 | 69.2 | 65.2 | • | 6.5 | 2 | 48 |
| Innotech 4737E3 | 69.2 | • | • | 6.9 | 2 | 32 |
| DELTA GROW 48E59 | 69.1 | 64.6 | • | 6.9 | 2 | 37 |
| DELTA GROW 47E35/STS | 68.2 | • | • | 5.7 | 3 | 38 |
| AG48XF3 | 68.1 | • | • | 6.5 | 2 | 48 |
| DELTA GROW 48E60 | 67.9 | • | • | 6.5 | 3 | 37 |
| Armor 49-F37 | 67.7 | • | • | 6.7 | 4 | 48 |
| DELTA GROW 48XF33/STS | 67.6 | • | • | 7.1 | 4 | 45 |
| Innvincis MEX49992XF | 67.4 | • | • | 6.8 | 3 | 42 |
| Integra 74893NS | 67.2 | • | • | 7.1 | 3 | 46 |
| AG47XF3 | 67.2 | • | • | 6.5 | 3 | 50 |
| Revere 4606XFS | 67.0 | 63.3 | • | 6.7 | 3 | 46 |
| Progeny P4604XFS | 66.6 | 61.9 | • | 7.2 | 3 | 46 |
| Dyna-Gro S49XF82S | 66.4 | • | • | 5.8 | 4 | 43 |
| Progeny P4798XF | 66.3 | • | • | 6.7 | 3 | 44 |
| Axis 4813XFS | 66.2 | • | • | 6.5 | 4 | 43 |
| Pioneer P48A14E | 65.9 | • | • | 7.0 | 4 | 39 |
| Revere 4925XF | 65.9 | • | • | 7.2 | 3 | 46 |
| AG49XF3 | 65.6 | • | • | 6.8 | 2 | 50 |
| Progeny P4951XFS | 64.3 | • | • | 7.5 | 3 | 43 |
| S16-7922C | 64.3 | 63.1 | • | 7.5 | 2 | 28 |
| NK49-T6E3S | 64.2 | • | • | 7.1 | 3 | 37 |

Continued

Table 17. Performance of Irrigated Soybean Varieties and Strains, Lon Mann Cotton Research Station, Marianna, Ark., 2022, Continued.

| Variety/Experimental Line | 2022 | 2-Year Average ^a (bu./ac) | 3-Year Average ^b | Moisture (%) | Lodging Score ^c | Plant Height (in.) |
|---|------|---|-----------------------------|-----------------|-------------------------------|--------------------------|
| Relative Maturity 4.6–4.9, continued | | | | | | |
| S17-2193C | 63.9 | • | • | 8.3 | 3 | 43 |
| DELTA GROW 46E10 | 63.8 | 60.5 | • | 6.5 | 3 | 38 |
| R18-14502 | 62.8 | 58.3 | • | 7.5 | 4 | 42 |
| DELTA GROW 48E49/STS | 62.6 | 58.9 | 58.9 | 7.7 | 3 | 44 |
| Dyna-Gro S46ES91 | 61.3 | 58.9 | 62.2 | 8.3 | 2 | 47 |
| R18-14753 | 60.8 | 56.7 | • | 8.0 | 4 | 40 |
| R18C-13665 | 60.0 | • | • | 7.2 | 3 | 41 |
| Dyna-Gro S49EN12 | 59.7 | • | • | 6.3 | 2 | 43 |
| DELTA GROW 49XF29/STS | 59.2 | • | • | 7.0 | 3 | 42 |
| R18-14147 | 58.8 | • | • | 7.0 | 3 | 45 |
| Dyna-Gro S47XF52 | 58.1 | • | • | 6.9 | 3 | 47 |
| S16-13165C | 57.7 | • | • | 7.5 | 4 | 44 |
| Progeny P4775E3S | 56.9 | 55.7 | 59.8 | 7.1 | 3 | 45 |
| USG 7493ETS | 56.2 | • | • | 7.7 | 4 | 42 |
| Innotech 4918E3 | 55.8 | • | • | 7.2 | 4 | 45 |
| R19C-3152 | 55.5 | • | • | 7.8 | 3 | 43 |
| R19C-3151 | 53.2 | • | • | 8.3 | 3 | 42 |
| R19C-3159 | 53.1 | • | • | 7.8 | 3 | 42 |
| R19C-3191 | 53.1 | • | • | 7.8 | 4 | 44 |
| R18C-13253 | 52.7 | • | • | 7.4 | 3 | 44 |
| R18C-144 | 51.5 | • | • | 7.2 | 4 | 47 |
| R19C-3148 | 51.1 | • | • | 7.6 | 3 | 43 |
| DELTA GROW 47E20/STS | 50.2 | 54.4 | 57.6 | 8.0 | 4 | 46 |
| R18-5798 | 49.7 | • | • | 7.7 | 4 | 47 |
| Grand Mean | 67.1 | • | • | 7.1 | 3 | 43 |
| LSD | 6.2 | • | • | 1.4 | 3 | 3.1 |
| C.V. | 6.8 | • | • | 14.3 | • | 4.4 |
| Relative Maturity 5.0–5.9 | | | | | | |
| Revere 5029XF | 66.9 | • | • | 11.1 | 1 | 40 |
| Progeny P5056XFS | 66.2 | • | • | 11.2 | 1 | 39 |
| Progeny P5016RXS | 64.3 | 65.6 | • | 10.3 | 1 | 41 |
| DELTA GROW 52XF22/STS | 64.1 | • | • | 10.4 | 1 | 39 |
| Armor 51-F88 | 63.8 | • | • | 10.4 | 1 | 39 |

Continued

Table 17. Performance of Irrigated Soybean Varieties and Strains, Lon Mann Cotton Research Station, Marianna, Ark., 2022, Continued.

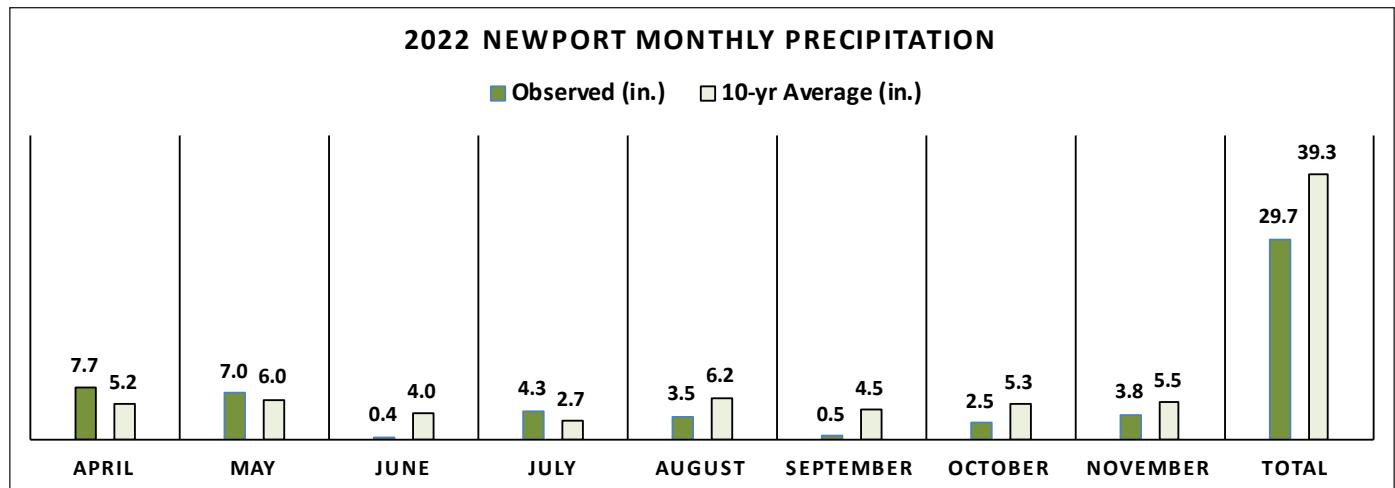
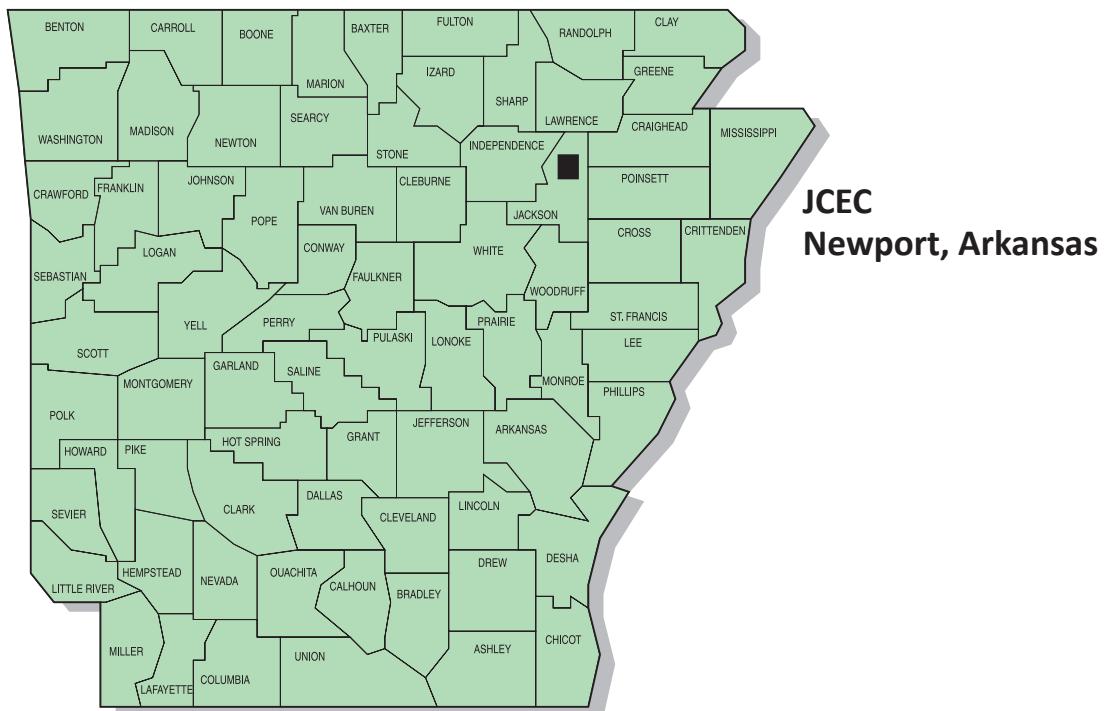
| Variety/Experimental Line | 2022 | 2-Year Average ^a (bu./ac) | 3-Year Average ^b | Moisture (%) | Lodging Score ^c | Plant Height (in.) |
|---|------|---|-----------------------------|-----------------|-------------------------------|--------------------------|
| | | | | | (%) | |
| Relative Maturity 5.0–5.9, continued | | | | | | |
| Progeny P5150XFS | 62.2 | • | • | 10.2 | 1 | 36 |
| Progeny P5554RX | 58.5 | 60.6 | • | 10.3 | 1 | 32 |
| S16-14801C | 58.3 | • | • | 11.1 | 1 | 23 |
| R18-14272 | 57.7 | • | • | 10.8 | 3 | 35 |
| Dyna-Gro S54XF62 | 57.2 | • | • | 10.3 | 1 | 29 |
| DELTA GROW 52E80 | 56.8 | • | • | 11.3 | 1 | 32 |
| Revere 5614XF | 55.8 | • | • | 9.9 | 1 | 26 |
| DELTA GROW 54XF20 | 55.5 | • | • | 10.6 | 1 | 30 |
| R18-3332 | 54.6 | • | • | 11.1 | 2 | 37 |
| Progeny P5521E3 | 53.9 | • | • | 10.6 | 4 | 36 |
| R18-14286 | 52.4 | • | • | 10.5 | 3 | 36 |
| Innotech 5143E3 | 52.2 | • | • | 10.2 | 3 | 33 |
| Progeny P5045E3S | 52.0 | • | • | 10.0 | 2 | 35 |
| Revere 5429E3 | 51.9 | • | • | 10.5 | 3 | 36 |
| DELTA GROW 51E30 | 51.5 | • | • | 10.5 | 1 | 34 |
| R19C-3169 | 51.3 | • | • | 9.3 | 1 | 37 |
| R19C-3085 | 51.1 | • | • | 11.0 | 1 | 24 |
| Innotech 5360E3 | 51.0 | • | • | 10.2 | 1 | 28 |
| R18-13337 | 50.4 | • | • | 11.1 | 1 | 25 |
| R19C-3182 | 50.0 | • | • | 9.2 | 2 | 37 |
| R19C-3144 | 49.3 | • | • | 9.4 | 1 | 36 |
| R19C-3194 | 48.7 | • | • | 9.2 | 1 | 36 |
| PL2E502 | 48.7 | • | • | 11.5 | 2 | 33 |
| R17-283F | 47.6 | • | • | 10.5 | 1 | 27 |
| Grand Mean | 55.5 | • | • | 10.4 | 2 | 34 |
| LSD (5%) | 4.2 | • | • | 0.6 | 0 | 2.3 |
| C.V. | 5.6 | • | • | 4.2 | • | 5.0 |

^aAverage yield from 2021 and 2022.^bAverage yield from 2020, 2021, 2022.^c1=Almost all plants erect; 2=either all plants leaning slightly, or a few plants down; 3=either all plants leaning moderately, or 25–50% of plants down; 4=either all plants leaning considerably, or 50–80% of plants down; 5=all plants down badly.

•=data not available.

Newport: Jackson County Extension Center (JCEC)

Irrigated Soybean Varieties and Strains, 2022



| Soil Series |
|---|
| Dexter, silt loam |
| Row Spacing |
| 30 in. twin row |
| Planting Date |
| May 31 |
| Irrigation Dates |
| June 22; July 7, 13, 28; Aug. 24; Sept. 15, 29-MG 5s only |

| Harvest | Date |
|---|------------------------------|
| Relative Maturity (RM) (4.0–4.5), RM (4.6–4.9), RM (5.0–5.9) | Oct. 11, 14, 21 |
| Fertilizer Application(s) | Date |
| 74.4 lb K | |
| Herbicide Application(s) | Date |
| Fierce® 3.75 oz/ac Prefix® 2.33 pt/ac Select MAX® 16 fl oz/ac | May 31 June 17 June 29 |

Table 18. Performance of Irrigated Varieties and Strains, Jackson County Extension Center, Newport, Ark., 2022.

| Variety/Experimental Line | 2022 | 2-Year Average ^a | Lodging Score ^b | Shatter Score ^c | Plant Height (in.) | Mositure (%) | Test Weight (lb/bu.) |
|----------------------------------|--------------------|-----------------------------|----------------------------|----------------------------|--------------------|--------------|----------------------|
| | -----(bu./ac)----- | | | | | | |
| Relative Maturity 4.0–4.5 | | | | | | | |
| DONMARIO DM45F23 | 86.1 | • | 1 | 1 | 34 | 10.0 | 59.1 |
| NK44-J4XFS | 85.8 | • | 2 | 1 | 40 | 9.4 | 60.0 |
| Progeny P4505RXS | 85.0 | 65.6 | 2 | 1 | 42 | 9.7 | 59.2 |
| Armor 45-F02 | 84.7 | • | 2 | 1 | 42 | 10.5 | 60.6 |
| Pioneer P44A21X | 83.6 | • | 2 | 1 | 41 | 9.1 | 60.7 |
| Progeny P4200RXS | 83.5 | • | 2 | 1 | 43 | 10.6 | 59.6 |
| Progeny P4202XFS | 83.2 | • | 1 | 1 | 42 | 8.7 | 62.5 |
| NK45-P9XF | 83.0 | • | 2 | 1 | 46 | 8.8 | 60.3 |
| NK44-Q5E3S | 82.0 | • | 1 | 1 | 35 | 9.4 | 59.2 |
| Progeny P4444RXS | 82.0 | • | 2 | 1 | 36 | 8.3 | 59.3 |
| Dyna-Gro S42XF93S | 81.8 | • | 2 | 1 | 42 | 9.2 | 60.4 |
| NK42-T5XF | 81.6 | • | 1 | 1 | 36 | 9.4 | 59.9 |
| NK45-V9E3 | 81.6 | • | 2 | 1 | 40 | 8.7 | 59.8 |
| Revere 4415XF | 81.3 | 72.6 | 2 | 1 | 37 | 9.1 | 62.5 |
| AG45XF3 | 80.6 | • | 2 | 1 | 39 | 9.5 | 60.2 |
| Progeny P4521XFS | 79.7 | 68.3 | 1 | 1 | 39 | 10.7 | 59.3 |
| Dyna-Gro S41EN72 | 79.6 | • | 2 | 1 | 34 | 8.6 | 59.0 |
| Dyna-Gro S45XF02 | 79.2 | • | 2 | 1 | 38 | 9.8 | 62.7 |
| DELTA GROW 45E33 | 79.2 | • | 2 | 1 | 39 | 11.1 | 59.5 |
| Dyna-Gro S43XS70 | 78.1 | 67.2 | 2 | 1 | 40 | 9.3 | 59.6 |
| Revere 4526XF | 77.9 | • | 2 | 1 | 41 | 10.3 | 60.1 |
| Pioneer P40A90LX | 77.6 | • | 2 | 1 | 41 | 7.9 | 60.1 |
| Dyna-Gro S45ES10 | 77.1 | 67.5 | 2 | 1 | 37 | 9.9 | 60.2 |
| Pioneer P42A84E | 76.7 | • | 2 | 1 | 35 | 8.5 | 60.7 |
| Pioneer P45A79E | 76.4 | • | 2 | 1 | 36 | 8.4 | 60.6 |
| Innvincit MEX44122XF | 75.6 | • | 2 | 1 | 37 | 10.2 | 59.2 |
| Axis 4522XF | 74.9 | 65.6 | 2 | 1 | 36 | 9.4 | 62.4 |
| Pioneer P44A91E | 74.6 | • | 2 | 1 | 36 | 8.5 | 60.9 |
| Armor 44-D49 | 73.5 | 65.1 | 2 | 1 | 38 | 8.7 | 59.9 |
| DELTA GROW 44XF41 | 73.5 | • | 2 | 1 | 37 | 8.3 | 59.1 |
| Eagle Seed ES4120XF | 72.9 | • | 2 | 1 | 36 | 8.0 | 58.8 |
| NK43-V8XF | 71.7 | • | 2 | 1 | 41 | 8.9 | 60.1 |
| NK43-Y9XFS | 71.6 | • | 1 | 1 | 35 | 9.1 | 59.9 |
| R18C-11737 | 71.6 | • | 2 | 1 | 35 | 9.0 | 60.8 |
| Integra 74142NS | 71.5 | • | 1 | 1 | 33 | 8.7 | 59.7 |

Continued

Table 18. Performance of Irrigated Varieties and Strains, Jackson County Extension Center, Newport, Ark., 2022, Continued.

| Variety/Experimental Line | 2022 | Average ^a -----(bu./ac)----- | Lodging Score ^b | Shatter Score ^c | Plant Height (in.) | Mositure (%) | Test Weight (lb/bu.) |
|---|------|--|----------------------------|----------------------------|--------------------|--------------|----------------------|
| Relative Maturity 4.0–4.5, continued | | | | | | | |
| Pioneer P40A36E | 71.2 | • | 1 | 1 | 36 | 8.3 | 59.6 |
| Axis 4112XFSTSTS | 69.0 | • | 2 | 1 | 35 | 9.7 | 59.9 |
| R19C-1012 | 68.4 | • | 2 | 1 | 45 | 9.7 | 60.9 |
| Pioneer P45A40LX | 67.3 | • | 2 | 1 | 38 | 8.7 | 58.1 |
| Integra 74383N | 66.4 | • | 1 | 1 | 36 | 8.8 | 59.6 |
| Progeny P4431E3 | 65.1 | 57.5 | 2 | 1 | 33 | 7.9 | 58.9 |
| Grand Mean | 77.4 | • | 2 | • | 38 | 9.2 | 60.1 |
| LSD (5%) | 9.1 | • | 1 | • | 5 | 1.2 | 1.1 |
| C.V. | 8.6 | • | 26 | • | 9.0 | 9.6 | 1.4 |
| Relative Maturity 4.6–4.9 | | | | | | | |
| Armor 46-F96 | 93.0 | • | 2 | 1 | 46 | 9.8 | 59.7 |
| Integra 54660NS | 92.6 | 80.0 | 2 | 1 | 41 | 11.1 | 59.8 |
| NK48-H3XFS | 92.2 | • | 2 | 1 | 43 | 10.7 | 59.8 |
| DONMARIO DM48F53 | 91.9 | • | 2 | 1 | 40 | 11.2 | 59.6 |
| DELTA GROW 46X65/STS | 91.2 | 74.9 | 2 | 1 | 43 | 11.0 | 59.6 |
| Axis 4613XF | 91.1 | • | 2 | 1 | 43 | 11.0 | 60.2 |
| Pioneer P47A64X | 90.4 | 74.0 | 2 | 1 | 46 | 11.1 | 60.2 |
| Innvincit MEX49992XF | 90.1 | • | 2 | 1 | 38 | 10.3 | 59.3 |
| Pioneer P48A14E | 90.1 | • | 2 | 1 | 45 | 15.5 | 59.8 |
| DELTA GROW 48E59 | 89.9 | 77.2 | 2 | 1 | 41 | 10.6 | 58.8 |
| Dyna-Gro S46XF31S | 89.7 | 73.8 | 2 | 1 | 45 | 10.9 | 59.9 |
| AG49XF3 | 89.6 | • | 2 | 1 | 49 | 11.9 | 58.6 |
| Revere 4795XS | 88.9 | 79.4 | 2 | 1 | 42 | 12.3 | 59.5 |
| Progeny P4844XFS | 88.3 | • | 2 | 1 | 40 | 10.2 | 60.2 |
| DELTA GROW 48X45 | 87.8 | 70.1 | 1 | 1 | 41 | 11.4 | 59.9 |
| Dyna-Gro S47XF23S | 87.4 | • | 2 | 1 | 42 | 9.7 | 59.5 |
| Axis 4813XFS | 86.9 | • | 2 | 1 | 41 | 10.6 | 60.0 |
| NK49-T6E3S | 86.9 | • | 2 | 1 | 44 | 11.1 | 59.8 |
| Armor 48-F22 | 86.7 | 73.2 | 2 | 1 | 47 | 11.1 | 59.5 |
| AG48XF3 | 86.7 | • | 2 | 1 | 44 | 12.9 | 59.6 |
| Revere 4727XF | 86.5 | • | 2 | 1 | 39 | 10.0 | 60.0 |
| Armor 49-F37 | 86.4 | • | 2 | 1 | 43 | 11.8 | 59.7 |
| Progeny P4732XF | 86.2 | • | 2 | 1 | 42 | 10.4 | 60.0 |
| DELTA GROW 48XF33/STS | 86.1 | • | 2 | 1 | 47 | 10.3 | 59.7 |
| Dyna-Gro S49XF82S | 86.0 | • | 2 | 1 | 43 | 10.8 | 60.7 |

Continued

Table 18. Performance of Irrigated Varieties and Strains, Jackson County Extension Center, Newport, Ark., 2022, Continued.

| Variety/Experimental Line | 2022 | 2-Year Average ^a | Lodging Score ^b | Shatter Score ^c | Plant Height (in.) | Mositure (%) | Test Weight (lb/bu.) |
|---|--------------------|-----------------------------|----------------------------|----------------------------|--------------------|--------------|----------------------|
| | -----(bu./ac)----- | | | | | | |
| Relative Maturity 4.6–4.9, continued | | | | | | | |
| USG 7463XFS | 85.8 | • | 2 | 1 | 42 | 10.0 | 59.8 |
| Progeny P4821RX | 85.6 | 73.1 | 2 | 1 | 42 | 11.6 | 59.1 |
| Progeny P4691XFS | 85.4 | • | 2 | 1 | 42 | 10.1 | 59.7 |
| Integra 54891NS | 85.1 | 74.4 | 2 | 1 | 47 | 10.2 | 59.3 |
| Armor 46-F13 | 85.0 | 75.4 | 2 | 1 | 46 | 10.8 | 59.4 |
| Revere 4925XF | 84.9 | • | 2 | 1 | 45 | 14.2 | 61.6 |
| Axis 4641XFS | 84.6 | 71.1 | 2 | 1 | 47 | 10.6 | 59.7 |
| Innotech 4737E3 | 84.4 | • | 1 | 1 | 36 | 10.0 | 60.1 |
| Progeny P4604XFS | 84.4 | 73.1 | 2 | 1 | 46 | 10.7 | 59.6 |
| Dyna-Gro S46XS60 | 84.2 | 75.8 | 2 | 1 | 40 | 11.6 | 60.0 |
| DELTA GROW 48E60 | 84.0 | • | 2 | 1 | 40 | 10.9 | 59.2 |
| PL2E472 | 83.8 | • | 1 | 1 | 44 | 11.0 | 59.8 |
| DELTA GROW 46XF18 | 83.6 | • | 2 | 1 | 42 | 11.1 | 60.3 |
| S16-7922C | 83.4 | 75.0 | 3 | 1 | 45 | 14.6 | 59.6 |
| Integra 74893NS | 83.3 | • | 2 | 1 | 46 | 11.0 | 59.6 |
| Armor 48-D25 | 83.3 | 77.7 | 2 | 1 | 43 | 10.7 | 58.8 |
| Innvictis MEX46332XF | 83.0 | • | 2 | 1 | 43 | 11.0 | 60.2 |
| Integra 74621NS | 82.8 | 70.2 | 2 | 1 | 48 | 10.5 | 59.6 |
| Progeny P4806XFS | 82.7 | 72.6 | 2 | 1 | 41 | 10.4 | 58.9 |
| DELTA GROW 47E35/STS | 82.6 | • | 2 | 1 | 43 | 14.3 | 58.9 |
| NK47-Z1XF | 82.3 | • | 2 | 1 | 45 | 10.6 | 60.7 |
| Revere 4826XFS | 82.3 | • | 2 | 1 | 41 | 11.9 | 59.7 |
| Pioneer P46A20LX | 81.9 | • | 2 | 1 | 44 | 10.0 | 59.6 |
| Progeny P4951XFS | 81.7 | • | 2 | 1 | 41 | 11.3 | 60.4 |
| Progeny P4798XF | 81.6 | • | 2 | 1 | 44 | 14.6 | 60.3 |
| Dyna-Gro S49EN12 | 81.4 | • | 1 | 1 | 41 | 12.8 | 60.0 |
| Revere 4606XFS | 81.1 | 70.2 | 2 | 1 | 42 | 10.9 | 60.2 |
| DELTA GROW 49XF29/STS | 81.1 | • | 2 | 1 | 41 | 11.2 | 60.6 |
| Dyna-Gro S46ES91 | 80.5 | 68.2 | 2 | 1 | 47 | 11.6 | 59.7 |
| R18C-13253 | 80.4 | • | 2 | 1 | 45 | 11.7 | 59.8 |
| Integra 74731NS | 80.2 | 70.2 | 1 | 1 | 40 | 11.1 | 60.0 |
| S17-2193C | 80.2 | • | 2 | 1 | 48 | 11.9 | 59.8 |
| DELTA GROW 49E80 | 80.1 | • | 1 | 1 | 37 | 10.2 | 60.2 |
| S16-13165C | 80.0 | • | 2 | 1 | 56 | 12.7 | 61.4 |
| Revere 4806XS | 79.7 | 72.9 | 2 | 1 | 45 | 12.6 | 59.5 |

Continued

Table 18. Performance of Irrigated Varieties and Strains, Jackson County Extension Center, Newport, Ark., 2022, Continued.

| Variety/Experimental Line | 2022 | 2-Year Average ^a | Lodging Score ^b | Shatter Score ^c | Plant Height (in.) | Mositure (%) | Test Weight (lb/bu.) |
|---|--------------------|--------------------------------|-------------------------------|-------------------------------|--------------------------|-----------------|----------------------------|
| | -----(bu./ac)----- | | | | | | |
| Relative Maturity 4.6–4.9, continued | | | | | | | |
| R18C-13665 | 79.1 | • | 2 | 1 | 47 | 10.8 | 59.0 |
| Innotech 4918E3 | 79.0 | • | 2 | 1 | 42 | 10.6 | 60.1 |
| Dyna-Gro S47XF52 | 79.0 | • | 2 | 1 | 48 | 12.8 | 59.8 |
| USG 7481XF | 78.9 | 70.7 | 2 | 1 | 46 | 11.4 | 59.7 |
| AG46XF3 | 78.6 | • | 2 | 1 | 44 | 11.3 | 60.4 |
| Eagle Seed ES4875XF | 78.4 | 69.5 | 2 | 1 | 41 | 11.4 | 60.1 |
| Progeny P4932E | 78.1 | • | 1 | 1 | 33 | 10.6 | 60.7 |
| DELTA GROW 47E20/STS | 78.1 | 70.4 | 2 | 1 | 47 | 10.7 | 59.2 |
| DELTA GROW 46E10 | 77.4 | 72.5 | 2 | 1 | 41 | 9.2 | 59.4 |
| R18-14502 | 77.2 | 69.8 | 2 | 1 | 49 | 12.6 | 60.2 |
| AG47XF3 | 77.1 | • | 2 | 1 | 48 | 10.8 | 59.9 |
| DELTA GROW 48E49/STS | 76.9 | 69.5 | 2 | 1 | 39 | 10.7 | 60.2 |
| USG 7461XFS | 76.7 | 68.4 | 2 | 1 | 44 | 10.8 | 60.3 |
| USG 7493ETS | 75.9 | • | 2 | 1 | 46 | 13.3 | 59.8 |
| R18-14753 | 74.0 | 63.9 | 2 | 1 | 44 | 11.1 | 61.7 |
| R19C-3159 | 73.9 | • | 2 | 1 | 47 | 12.0 | 61.3 |
| R18C-144 | 73.6 | • | 2 | 1 | 57 | 11.6 | 60.6 |
| R19C-3151 | 73.6 | • | 2 | 1 | 46 | 13.3 | 61.5 |
| R19C-3152 | 72.9 | • | 2 | 1 | 48 | 12.9 | 61.9 |
| R19C-3148 | 70.8 | • | 2 | 1 | 46 | 11.1 | 61.9 |
| Progeny P4775E3S | 70.8 | 67.3 | 2 | 1 | 50 | 11.2 | 59.0 |
| R18-14147 | 70.5 | • | 2 | 1 | 49 | 11.2 | 62.2 |
| R18-5798 | 70.0 | • | 2 | 1 | 56 | 12.7 | 60.9 |
| R19C-3191 | 68.4 | • | 2 | 1 | 47 | 12.8 | 61.6 |
| Grand Mean | 82.7 | • | 2 | • | 44 | 11.4 | 60.0 |
| LSD | 7.1 | • | 0 | • | 4.4 | 1.8 | 0.8 |
| C.V. | 6.4 | • | 19 | • | 7.4 | 11.8 | 0.9 |
| Relative Maturity 5.0–5.9 | | | | | | | |
| Revere 5429E3 | 93.4 | • | 2 | 1 | 52 | 13.5 | 59.2 |
| Innotech 5143E3 | 91.8 | • | 2 | 1 | 41 | 10.9 | 60.0 |
| Armor 51-F88 | 91.1 | • | 2 | 1 | 46 | 10.9 | 60.6 |
| Progeny P5056XFS | 89.9 | • | 2 | 1 | 49 | 11.5 | 60.2 |
| Progeny P5150XFS | 89.8 | • | 2 | 1 | 37 | 10.5 | 60.9 |

Continued

Table 18. Performance of Irrigated Varieties and Strains, Jackson County Extension Center, Newport, Ark., 2022, Continued.

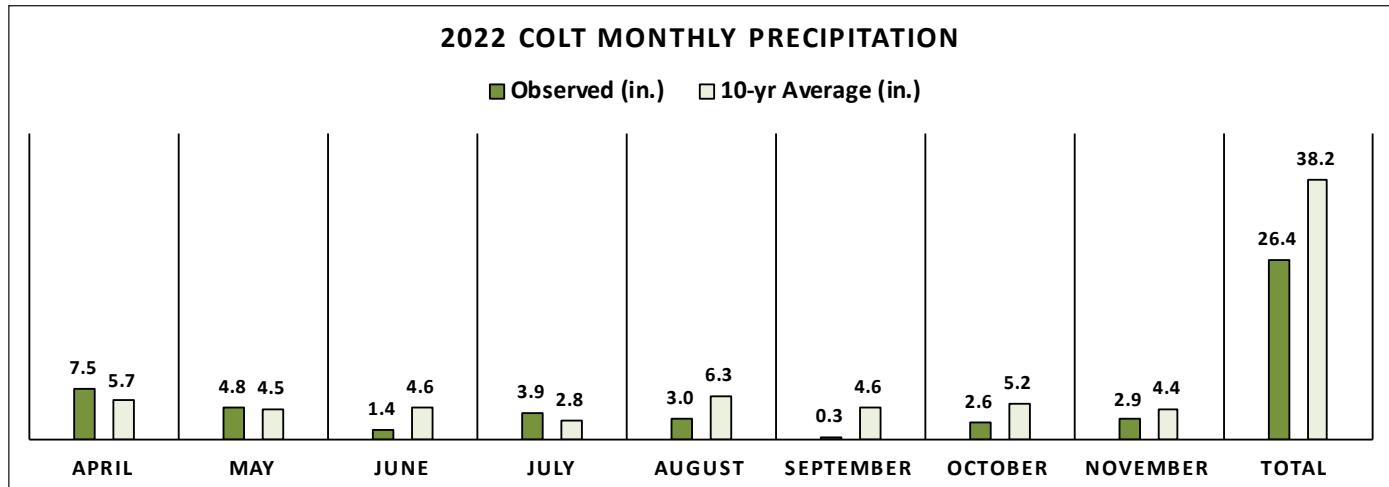
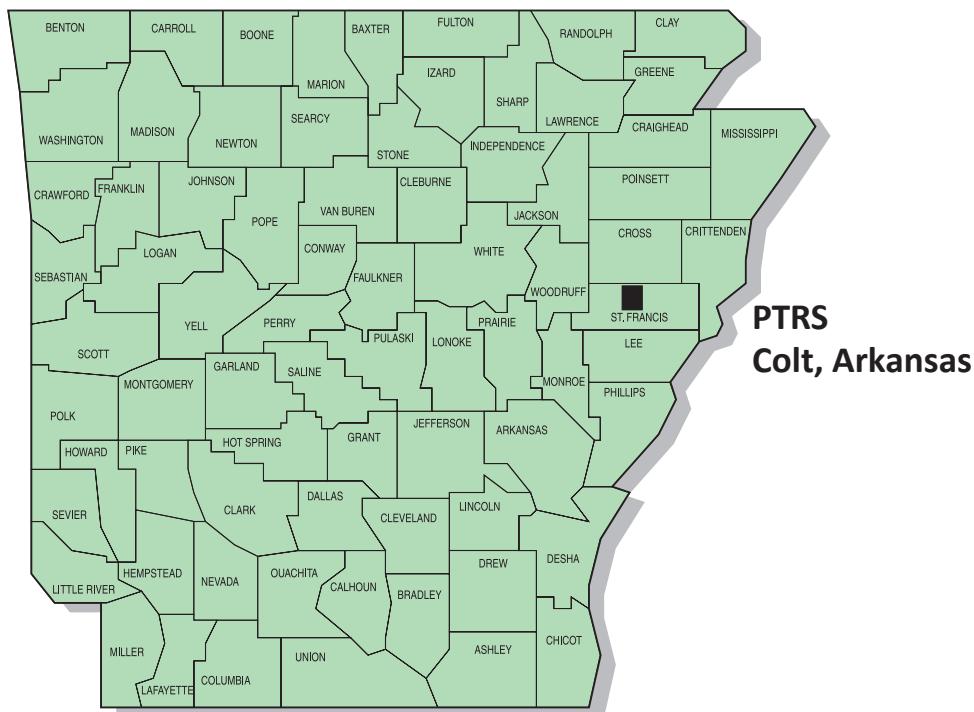
| Variety/Experimental Line | 2022 | 2-Year Average ^a | Lodging Score ^b | Shatter Score ^c | Plant Height (in.) | Mositure (%) | Test Weight (lb/bu.) |
|---|--------------------|-----------------------------|----------------------------|----------------------------|--------------------|--------------|----------------------|
| | -----(bu./ac)----- | | | | | | |
| Relative Maturity 5.0–5.9, continued | | | | | | | |
| DELTA GROW 52XF22/STS | 89.2 | • | 2 | 1 | 47 | 10.8 | 60.5 |
| Revere 5029XF | 86.6 | • | 2 | 1 | 49 | 11.8 | 59.9 |
| Progeny P5554RX | 85.5 | • | 1 | 1 | 38 | 11.9 | 60.4 |
| Progeny P5045E3S | 85.1 | • | 2 | 1 | 43 | 10.4 | 60.7 |
| Revere 5614XF | 84.5 | 69.7 | 1 | 1 | 29 | 13.9 | 60.8 |
| Dyna-Gro S54XF62 | 83.6 | • | 1 | 1 | 35 | 11.3 | 62.1 |
| Progeny P5016RXS | 83.6 | • | 2 | 1 | 46 | 11.8 | 60.4 |
| DELTA GROW 52E80 | 83.0 | 72.0 | 2 | 1 | 41 | 10.8 | 60.7 |
| DELTA GROW 51E30 | 81.9 | • | 1 | 1 | 43 | 10.7 | 60.9 |
| Innotech 5360E3 | 81.1 | • | 2 | 1 | 42 | 11.2 | 60.4 |
| R18-3332 | 80.8 | • | 2 | 1 | 50 | 12.4 | 61.7 |
| DELTA GROW 54XF20 | 80.5 | • | 1 | 1 | 35 | 11.6 | 62.7 |
| Progeny P5521E3 | 80.3 | • | 3 | 1 | 52 | 14.9 | 59.2 |
| R19C-3182 | 79.3 | • | 2 | 1 | 46 | 11.3 | 62.3 |
| PL2E502 | 76.6 | • | 2 | 1 | 47 | 11.0 | 61.6 |
| R18-13337 | 76.2 | • | 2 | 1 | 30 | 11.6 | 62.8 |
| S16-14801C | 75.3 | 66.0 | 2 | 1 | 35 | 11.4 | 62.4 |
| R19C-3194 | 75.0 | • | 2 | 1 | 49 | 11.5 | 62.5 |
| R18-14286 | 74.9 | • | 3 | 1 | 53 | 11.3 | 60.5 |
| R19C-3169 | 74.5 | • | 2 | 1 | 44 | 11.2 | 62.3 |
| R17-283F | 73.8 | 60.9 | 1 | 1 | 36 | 12.4 | 60.3 |
| R19C-3144 | 73.5 | • | 2 | 1 | 51 | 11.6 | 62.2 |
| R18-14272 | 71.4 | • | 2 | 1 | 51 | 11.2 | 60.6 |
| R19C-3085 | 62.9 | • | 1 | 1 | 35 | 11.5 | 61.9 |
| Grand Mean | 81.5 | • | 2 | • | 43 | 11.6 | 61.0 |
| LSD (5%) | 5.8 | • | 0 | • | 3.9 | 1.5 | 0.6 |
| C.V. | 5.2 | • | • | • | 6.8 | 9.4 | 0.7 |

^a Average yield from 2021 and 2022.^b 1 = almost all plants erect; 2 = either all plants leaning slightly, or a few plants down; 3 = either all plants leaning moderately, 25–50% of plants down; 4 = either all plants leaning considerably, or 50–80% of plants down; 5 = all plants down badly.^c 1 = no shattering; 2 = 1–3% shattered; 3 = 4–8% shattered; 4 = 9–19% shattered; 5 = 20% or more shattered.

• = data not available.

Colt: Pine Tree Research Station (PTRS)

Irrigated Soybean Varieties and Strains, 2022



| Soil Series | |
|--|-----------|
| Calloway | silt loam |
| Previous Crop | |
| Corn | |
| Row Spacing | |
| 30 in. | |
| Planting Date | |
| May 11 | |
| Irrigation Dates | |
| June 24; July 2, 8, 15, 26; Aug. 10, 29; Sept. 12 | |

| Harvest | Date |
|--|--|
| Relative Maturity (RM) (4.0–4.5), RM (4.6–4.9), RM (5.0–5.9) | Oct. 1, 7, 10 |
| Fertilizer Application(s) | |
| 70 lb/ac P ₂ O ₅ 129 lb/ac K ₂ O | April 9 April 9 |
| Herbicide Application(s) | |
| Fierce® 3.0 oz/ac; Makaze® 1 qt/ac; Storm 1.5 pt/ac Metolachlor II® 1.5 pt/ac; Clethodim 1 pt/ac; Classic® 0.75 oz/ac; Vamos® 1.5 pt/ac | May 12; May 12; May 27 June 6; June 9 June 18; June 23 |
| Trial Comments: Non-Xtend soybean varieties repeatedly showed symptoms consistent with injury attributed to off-target movement of dicamba. | |

Table 19. Performance of Irrigated Soybean Varieties and Strains, Pine Tree Research Station, Colt, Ark., 2022.

| Variety/Experimental Line | 2022 | 2-Year | 3-Year | Maturity Date | Lodging Score ^c | Plant Height (in.) | Moisture (%) |
|----------------------------------|------|----------------------------------|----------------------|---------------|----------------------------|--------------------|--------------|
| | | Average ^a (bu./ac) | Average ^b | | | | |
| Relative Maturity 4.0–4.5 | | | | | | | |
| Pioneer P42A84E | 77.7 | • | • | 9/26 | 2 | 34 | 10.8 |
| Pioneer P44A21X | 75.6 | • | • | 9/24 | 2 | 37 | 10.9 |
| Armor 45-F02 | 75.2 | • | • | 9/24 | 2 | 38 | 11.0 |
| Revere 4526XF | 75.1 | • | • | 9/24 | 2 | 40 | 10.6 |
| Progeny P4521XFS | 72.4 | 72.5 | • | 9/28 | 1 | 38 | 11.2 |
| Pioneer P45A79E | 72.3 | • | • | 9/27 | 2 | 34 | 11.3 |
| NK44-J4XFS | 72.0 | • | • | 9/20 | 1 | 35 | 10.7 |
| NK42-T5XF | 71.2 | • | • | 9/20 | 1 | 35 | 10.6 |
| Progeny P4444RXS | 70.8 | • | • | 9/20 | 2 | 36 | 10.0 |
| Pioneer P44A91E | 70.7 | • | • | 9/27 | 1 | 32 | 11.2 |
| Dyna-Gro S43XS70 | 70.3 | 73.7 | 71.2 | 9/28 | 1 | 38 | 11.7 |
| NK43-V8XF | 70.1 | • | • | 9/24 | 2 | 39 | 11.0 |
| Dyna-Gro S45ES10 | 69.8 | 70.7 | 73.4 | 9/26 | 2 | 37 | 11.1 |
| NK44-Q5E3S | 69.8 | • | • | 9/22 | 1 | 31 | 10.6 |
| Axis 4522XF | 69.5 | 76.1 | • | 9/24 | 2 | 34 | 11.3 |
| Progeny P4200RXS | 69.3 | • | • | 9/29 | 2 | 40 | 11.8 |
| Axis 4112XFSTSTS | 68.6 | • | • | 9/24 | 2 | 36 | 10.6 |
| Innvictis MEX44122XF | 68.5 | • | • | 9/25 | 2 | 38 | 10.8 |
| Armor 44-D49 | 68.4 | 76.4 | 70.7 | 9/26 | 2 | 39 | 11.5 |
| Progeny P4202XFS | 68.2 | • | • | 9/28 | 1 | 39 | 11.5 |
| DONMARIO DM45F23 | 67.4 | • | • | 9/21 | 1 | 37 | 10.7 |
| AG45XF3 | 67.4 | • | • | 9/20 | 2 | 37 | 10.5 |
| Progeny P4505RXS | 67.2 | 75.0 | 75.7 | 9/27 | 2 | 38 | 11.6 |
| Dyna-Gro S45XF02 | 67.1 | • | • | 9/25 | 2 | 34 | 11.3 |
| NK43-Y9XFS | 66.9 | • | • | 9/20 | 1 | 35 | 10.7 |
| Pioneer P40A36E | 66.8 | • | • | 9/21 | 2 | 33 | 10.5 |
| Integra 74383N | 66.7 | • | • | 9/20 | 1 | 40 | 10.3 |
| Revere 4415XF | 65.6 | 72.3 | • | 9/24 | 1 | 34 | 10.7 |
| Progeny P4431E3 | 65.4 | 63.3 | • | 9/20 | 1 | 35 | 9.9 |
| DELTA GROW 45E33 | 65.0 | • | • | 9/28 | 1 | 35 | 11.4 |
| Dyna-Gro S42XF93S | 64.7 | • | • | 9/22 | 2 | 36 | 10.7 |
| NK45-P9XF | 64.3 | • | • | 9/25 | 2 | 38 | 10.7 |
| Pioneer P40A90LX | 64.0 | • | • | 9/22 | 2 | 36 | 10.5 |
| Pioneer P45A40LX | 63.2 | • | • | 9/25 | 1 | 38 | 11.1 |
| DELTA GROW 44XF41 | 62.8 | • | • | 9/20 | 2 | 38 | 10.1 |

Continued

Table 19. Performance of Irrigated Soybean Varieties and Strains, Pine Tree Research Station, Colt, Ark., 2022, Continued.

| Variety/Experimental Line | 2022 | 2-Year | 3-Year | Maturity | Lodging | Plant | Moisture (%) |
|---|------|----------------------------------|----------------------|----------|--------------------|-----------------|-----------------|
| | | Average ^a (bu./ac) | Average ^b | Date | Score ^c | Height (in.) | |
| Relative Maturity 4.0–4.5, continued | | | | | | | |
| Integra 74142NS | 62.1 | • | • | 9/25 | 1 | 34 | 11.0 |
| R19C-1012 | 61.2 | • | • | 9/30 | 2 | 40 | 13.1 |
| NK45-V9E3 | 57.3 | • | • | 9/21 | 3 | 35 | 11.2 |
| Eagle Seed ES4120XF | 57.2 | • | • | 9/24 | 2 | 36 | 11.1 |
| R18C-11737 | 55.8 | • | • | 9/20 | 2 | 33 | 11.2 |
| Dyna-Gro S41EN72 | 55.7 | • | • | 9/20 | 2 | 34 | 10.3 |
| Grand Mean | 67.3 | • | • | 9/24 | 2 | 36 | 10.9 |
| LSD (5%) | 6.5 | • | • | 2.5 | 1 | 1.8 | 0.7 |
| C.V. | 7.1 | • | • | 0.7 | 27 | 3.7 | 4.4 |
| Relative Maturity 4.6–4.9 | | | | | | | |
| Dyna-Gro S46XS60 | 73.2 | 73.6 | 74.9 | 9/29 | 1 | 37 | 10.1 |
| Integra 54660NS | 73.2 | 76.3 | 78.5 | 9/30 | 1 | 33 | 10.2 |
| PL2E472 | 70.6 | • | • | 9/30 | 1 | 34 | 10.4 |
| Revere 4727XF | 69.8 | • | • | 9/29 | 1 | 36 | 9.8 |
| DONMARIO DM48F53 | 69.6 | • | • | 9/30 | 2 | 35 | 10.4 |
| DELTA GROW 48X45 | 69.0 | 72.7 | 73.6 | 10/4 | 1 | 38 | 11.2 |
| DELTA GROW 48E59 | 68.7 | 72.9 | • | 9/30 | 1 | 33 | 10.5 |
| Integra 74893NS | 68.7 | • | • | 9/30 | 1 | 41 | 10.4 |
| Pioneer P47A64X | 68.7 | 78.7 | • | 9/30 | 1 | 42 | 10.3 |
| Revere 4806XS | 68.1 | 74.3 | 75.4 | 10/1 | 1 | 37 | 10.2 |
| Armor 48-F22 | 68.1 | 68.0 | • | 9/30 | 1 | 39 | 10.5 |
| Armor 49-F37 | 67.8 | • | • | 9/29 | 1 | 40 | 10.3 |
| Revere 4606XFS | 67.8 | 69.5 | • | 10/1 | 2 | 39 | 10.4 |
| Progeny P4821RX | 67.7 | 71.2 | 73.8 | 10/1 | 2 | 38 | 11.2 |
| AG48XF3 | 67.6 | • | • | 10/1 | 2 | 41 | 10.4 |
| Revere 4925XF | 67.3 | • | • | 10/2 | 1 | 43 | 11.0 |
| Dyna-Gro S47XF23S | 67.2 | • | • | 9/30 | 1 | 37 | 10.1 |
| AG46XF3 | 67.2 | • | • | 9/29 | 2 | 38 | 10.4 |
| Pioneer P46A20LX | 67.2 | • | • | 9/30 | 1 | 37 | 11.1 |
| Progeny P4798XF | 67.1 | • | • | 10/2 | 1 | 37 | 10.9 |
| NK48-H3XFS | 67.0 | • | • | 9/30 | 2 | 34 | 10.7 |
| DELTA GROW 48XF33/STS | 67.0 | • | • | 10/1 | 1 | 43 | 10.4 |
| Revere 4795XS | 66.7 | 70.9 | 73.6 | 9/29 | 2 | 38 | 10.2 |
| Innvictis MEX46332XF | 66.6 | • | • | 10/1 | 1 | 37 | 10.5 |
| Integra 74621NS | 66.6 | 72.7 | • | 9/30 | 1 | 40 | 10.3 |

Continued

Table 19. Performance of Irrigated Soybean Varieties and Strains, Pine Tree Research Station, Colt, Ark., 2022, Continued.

| Variety/Experimental Line | 2022 | 2-Year | 3-Year | Maturity | Lodging | Plant | Plant |
|---|------|----------------------------------|----------------------|----------|--------------------|-----------------|-----------------|
| | | Average ^a (bu./ac) | Average ^b | Date | Score ^c | Height (in.) | Moisture (%) |
| Relative Maturity 4.6–4.9, continued | | | | | | | |
| Progeny P4691XFS | 66.5 | • | • | 9/30 | 1 | 39 | 10.5 |
| USG 7463XFS | 66.4 | • | • | 9/30 | 1 | 40 | 10.6 |
| DELTA GROW 46X65/STS | 66.3 | 71.4 | 71.0 | 9/30 | 1 | 37 | 10.8 |
| Progeny P4604XFS | 66.1 | 69.3 | • | 9/30 | 1 | 39 | 10.6 |
| DELTA GROW 49XF29/STS | 65.9 | • | • | 10/3 | 1 | 40 | 10.4 |
| Integra 54891NS | 65.8 | 73.9 | 75.0 | 9/30 | 1 | 40 | 10.2 |
| Axis 4613XF | 65.7 | • | • | 9/30 | 1 | 34 | 10.4 |
| DELTA GROW 48E60 | 65.6 | • | • | 10/2 | 1 | 35 | 10.6 |
| Armor 48-D25 | 65.6 | 72.0 | 73.5 | 10/4 | 1 | 38 | 10.7 |
| Progeny P4732XF | 65.5 | • | • | 9/29 | 1 | 38 | 10.5 |
| Pioneer P48A14E | 65.5 | • | • | 10/4 | 2 | 38 | 11.1 |
| NK47-Z1XF | 65.3 | • | • | 9/28 | 1 | 37 | 10.1 |
| DELTA GROW 46XF18 | 65.1 | • | • | 9/30 | 1 | 38 | 10.6 |
| Revere 4826XFS | 65.0 | • | • | 9/30 | 1 | 35 | 10.4 |
| Armor 46-F13 | 64.8 | 69.9 | • | 9/29 | 1 | 40 | 10.3 |
| S16-7922C | 64.7 | 68.6 | • | 10/3 | 2 | 28 | 11.1 |
| DELTA GROW 48E49/STS | 64.6 | 67.2 | 66.7 | 9/28 | 1 | 38 | 10.5 |
| Progeny P4951XFS | 64.5 | • | • | 10/2 | 1 | 36 | 10.2 |
| NK49-T6E3S | 64.4 | • | • | 9/30 | 3 | 37 | 10.5 |
| Armor 46-F96 | 64.4 | • | • | 9/30 | 1 | 37 | 10.4 |
| AG47XF3 | 64.1 | • | • | 9/29 | 1 | 42 | 10.1 |
| USG 7461XFS | 64.0 | 69.6 | • | 9/30 | 1 | 37 | 10.3 |
| Axis 4641XFS | 63.7 | 71.4 | • | 9/30 | 1 | 41 | 10.2 |
| Progeny P4844XFS | 63.6 | • | • | 9/30 | 1 | 35 | 9.9 |
| Progeny P4932E | 63.4 | • | • | 9/29 | 1 | 29 | 10.0 |
| DELTA GROW 49E80 | 63.4 | • | • | 9/30 | 1 | 32 | 10.0 |
| Innvincis MEX49992XF | 63.1 | • | • | 9/29 | 2 | 35 | 10.4 |
| Dyna-Gro S49XF82S | 63.0 | • | • | 9/29 | 1 | 38 | 10.0 |
| Axis 4813XFS | 62.6 | • | • | 9/30 | 1 | 34 | 9.7 |
| Progeny P4806XFS | 62.3 | 65.4 | • | 10/3 | 1 | 38 | 10.8 |
| AG49XF3 | 62.2 | • | • | 10/4 | 1 | 40 | 10.5 |
| DELTA GROW 47E35/STS | 61.5 | • | • | 10/1 | 1 | 35 | 10.2 |
| Dyna-Gro S46XF31S | 61.1 | 68.9 | • | 10/1 | 1 | 37 | 10.3 |
| R18C-13665 | 61.0 | • | • | 9/30 | 1 | 39 | 10.3 |
| DELTA GROW 47E20/STS | 60.9 | 64.8 | 66.5 | 9/28 | 1 | 42 | 10.5 |

Continued

Table 19. Performance of Irrigated Soybean Varieties and Strains, Pine Tree Research Station, Colt, Ark., 2022, Continued.

| Variety/Experimental Line | 2022 | 2-Year Average ^a (bu./ac) | 3-Year Average ^b | Maturity Date | Lodging Score ^c | Plant Height (in.) | Moisture (%) |
|---|------|--|--------------------------------|------------------|-------------------------------|--------------------------|-----------------|
| Relative Maturity 4.6–4.9, continued | | | | | | | |
| USG 7481XF | 60.9 | 66.7 | • | 9/28 | 1 | 39 | 10.3 |
| DELTA GROW 46E10 | 60.8 | 58.5 | • | 9/25 | 1 | 35 | 9.8 |
| Eagle Seed ES4875XF | 60.8 | 64.4 | • | 10/3 | 1 | 35 | 10.5 |
| Innotech 4737E3 | 60.5 | • | • | 9/29 | 1 | 29 | 10.0 |
| Dyna-Gro S49EN12 | 60.4 | • | • | 10/3 | 1 | 36 | 10.6 |
| R18-14753 | 60.3 | 60.7 | • | 9/30 | 2 | 39 | 11.4 |
| R18-14502 | 59.8 | 63.4 | • | 10/2 | 2 | 41 | 11.0 |
| Integra 74731NS | 59.1 | 63.8 | • | 10/3 | 1 | 36 | 11.1 |
| Progeny P4775E3S | 57.9 | 62.1 | 65.7 | 9/28 | 1 | 43 | 10.5 |
| S17-2193C | 57.9 | • | • | 10/1 | 1 | 41 | 11.1 |
| Innotech 4918E3 | 57.8 | • | • | 9/30 | 1 | 34 | 10.2 |
| Dyna-Gro S46ES91 | 57.1 | 61.9 | 65.4 | 9/28 | 1 | 40 | 10.4 |
| Dyna-Gro S47XF52 | 54.9 | • | • | 9/29 | 2 | 40 | 10.4 |
| R18-14147 | 54.7 | • | • | 9/29 | 1 | 39 | 11.0 |
| USG 7493ETS | 53.7 | • | • | 10/4 | 1 | 40 | 11.2 |
| S16-13165C | 52.7 | • | • | 9/29 | 2 | 41 | 10.8 |
| R19C-3148 | 52.2 | • | • | 9/30 | 1 | 41 | 10.6 |
| R19C-3152 | 51.7 | • | • | 10/3 | 1 | 41 | 10.9 |
| R18C-13253 | 51.6 | • | • | 10/2 | 2 | 39 | 11.2 |
| R18C-144 | 50.8 | • | • | 9/29 | 2 | 44 | 10.5 |
| R19C-3151 | 50.6 | • | • | 10/3 | 1 | 41 | 10.9 |
| R19C-3191 | 49.3 | • | • | 10/1 | 1 | 42 | 10.5 |
| R19C-3159 | 46.4 | • | • | 10/3 | 1 | 40 | 11.0 |
| R18-5798 | 46.3 | • | • | 9/29 | 2 | 43 | 10.7 |
| Grand Mean | 63.0 | • | • | 9/30 | 1 | 38 | 10.5 |
| LSD | 6.0 | • | • | 1.9 | 0 | 2.9 | 0.5 |
| C.V. | 7.0 | • | • | 0.5 | • | 5.7 | 3.6 |
| Relative Maturity 5.0–5.9 | | | | | | | |
| Progeny P5016RXS | 72.9 | • | • | 10/5 | 1 | 41 | 10.0 |
| Progeny P5056XFS | 68.7 | • | • | 10/4 | 2 | 40 | 10.3 |
| Revere 5029XF | 66.1 | • | • | 10/4 | 2 | 43 | 10.4 |
| S16-14801C | 65.3 | 71.0 | • | 10/2 | 1 | 25 | 10.6 |
| DELTA GROW 52XF22/STS | 65.0 | • | • | 10/3 | 1 | 37 | 10.1 |

Continued

Table 19. Performance of Irrigated Soybean Varieties and Strains, Pine Tree Research Station, Colt, Ark., 2022, Continued.

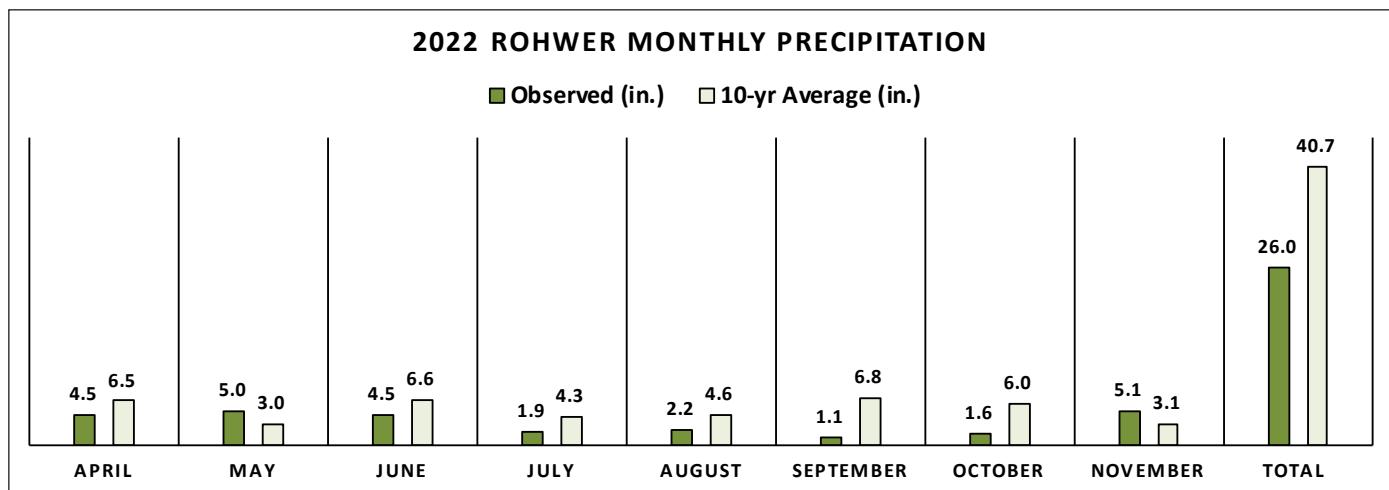
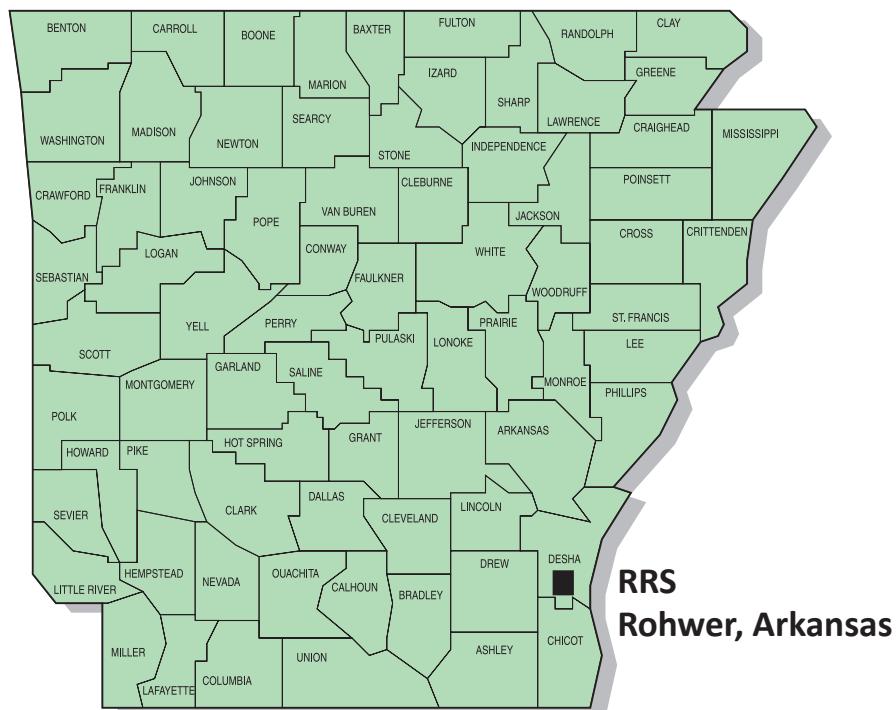
| Variety/Experimental Line | 2022 | 2-Year Average ^a | 3-Year Average ^b | Maturity Date | Lodging Score ^c | Plant Height | Moisture |
|---|----------|--------------------------------|--------------------------------|------------------|-------------------------------|-----------------|----------|
| | (bu./ac) | | | | | (in.) | (%) |
| Relative Maturity 5.0–5.9, continued | | | | | | | |
| Dyna-Gro S54XF62 | 64.8 | • | • | 10/2 | 1 | 26 | 10.3 |
| DELTA GROW 52E80 | 64.3 | 67.0 | • | 10/3 | 1 | 37 | 10.0 |
| R19C-3085 | 64.0 | • | • | 10/1 | 1 | 26 | 10.3 |
| Innotech 5143E3 | 63.7 | • | • | 10/4 | 3 | 38 | 10.3 |
| Armor 51-F88 | 63.6 | • | • | 10/3 | 1 | 37 | 10.0 |
| Revere 5429E3 | 63.1 | • | • | 10/8 | 2 | 41 | 11.3 |
| Progeny P5150XFS | 62.6 | • | • | 10/1 | 1 | 37 | 9.9 |
| Revere 5614XF | 62.5 | 64.2 | • | 10/7 | 1 | 26 | 10.0 |
| Innotech 5360E3 | 61.6 | • | • | 10/5 | 1 | 35 | 9.9 |
| Progeny P5554RX | 60.9 | • | • | 10/3 | 1 | 26 | 10.0 |
| DELTA GROW 54XF20 | 60.8 | • | • | 10/2 | 1 | 27 | 10.1 |
| R18-14272 | 60.4 | • | • | 10/5 | 2 | 41 | 10.3 |
| R18-14286 | 57.8 | • | • | 10/7 | 2 | 39 | 10.3 |
| DELTA GROW 51E30 | 55.8 | • | • | 10/3 | 1 | 36 | 10.1 |
| Progeny P5521E3 | 55.3 | • | • | 10/9 | 2 | 40 | 10.6 |
| R17-283F | 55.3 | 59.8 | • | 10/8 | 1 | 28 | 10.5 |
| PL2E502 | 55.3 | • | • | 10/2 | 2 | 39 | 10.3 |
| R18-3332 | 55.1 | • | • | 10/3 | 1 | 41 | 10.2 |
| R18-13337 | 54.9 | • | • | 10/1 | 1 | 27 | 10.5 |
| Progeny P5045E3S | 53.1 | • | • | 10/6 | 1 | 39 | 10.2 |
| R19C-3182 | 52.9 | • | • | 10/2 | 1 | 40 | 10.1 |
| R19C-3169 | 52.4 | • | • | 10/3 | 1 | 39 | 10.2 |
| R19C-3194 | 49.9 | • | • | 10/2 | 1 | 40 | 10.0 |
| R19C-3144 | 49.7 | • | • | 10/3 | 1 | 42 | 10.2 |
| Grand Mean | 60.0 | • | • | 10/3 | 1 | 60 | 10.2 |
| LSD (5%) | 5.4 | • | • | 1.7 | 0 | 5.4 | 0.4 |
| C.V. | 6.6 | • | • | 0.5 | 20 | 6.6 | 2.7 |

^a Average yield from 2021 and 2022.^b Average yield from 2020, 2021, 2022.^c 1 = Almost all plants erect; 2 = either all plants leaning slightly, or a few plants down; 3 = either all plants leaning moderately, or 25–50% of plants down; 4 = either all plants leaning considerably, or 50–80% of plants down; 5 = all plants down badly.

• = data not available.

Rohwer: Rohwer Research Center (RRS)

Irrigated Soybean Varieties and Strains, 2022



| Soil Series | Harvest | Date |
|-----------------------------------|--|---------------|
| Sharkey clay, deshaw silt loam | Relative Maturity (RM) (4.0–4.5), RM (4.6–4.9), RM (5.0–5.9) | Oct. 6, 7, 12 |
| Previous Crop | Fertilizer Application(s) | Date |
| Corn | 0-0-60-85 lb | April 4 |
| Row Spacing | Herbicide Application(s) | Date |
| 38 in. | Paraquat® 1 qt, Cornerstone® 1 qt, Dual® 1.33 pt, Sharpen® 1 oz, Oil® 19.2 oz | May 3 |
| Planting Date | Select® 1 pt, Fomesafen® 1 pt, Dual® 1 pt, 80/20 19.2 oz | June 7 |
| May 3 | Zidua® 2 oz, Select® 1 pt, Basagran® 1 pt, Blazer® 1 pt | June 24 |
| Irrigation Dates | Trial Comments: Non-Xtend soybean varieties repeatedly showed symptoms consistent with injury attributed to off-target movement of dicamba. | |
| July 7, 20; Aug. 3, 19 | | |

Table 20. Performance of Irrigated Soybean Varieties and Strains, Rohwer Research Station, Rohwer, Ark., 2022.

| Variety/Experimental Line | 2022 | 2-Year Average ^a (bu./ac) | 3-Year Average ^b (bu./ac) | Test Weight (lb/bu.) | Lodging Score ^c | Moisture (%) | Plant Height (in.) |
|----------------------------------|------|--|--|----------------------------|-------------------------------|-----------------|--------------------------|
| Relative Maturity 4.0–4.5 | | | | | | | |
| AG45XF3 | 83.5 | • | • | 62.7 | 3 | 7.1 | 20 |
| Pioneer P44A21X | 81.5 | • | • | 62.7 | 2 | 6.9 | 20 |
| Revere 4415XF | 80.2 | 73.2 | • | 62.5 | 2 | 7.4 | 20 |
| NK45-P9XF | 79.5 | • | • | 63.0 | 4 | 6.4 | 22 |
| DONMARIO DM45F23 | 79.5 | • | • | 63.0 | 3 | 6.5 | 23 |
| Armor 45-F02 | 78.7 | • | • | 62.2 | 3 | 7.6 | 22 |
| Axis 4522XF | 77.1 | 73.1 | • | 62.4 | 3 | 7.7 | 25 |
| Revere 4526XF | 76.5 | • | • | 62.4 | 3 | 7.5 | 23 |
| Armor 44-D49 | 76.0 | 71.3 | 70.3 | 62.8 | 3 | 6.9 | 23 |
| R19C-1012 | 72.6 | • | • | 62.6 | 2 | 7.1 | 28 |
| Dyna-Gro S45ES10 | 72.2 | 68.0 | 69.7 | 62.2 | 2 | 7.7 | 24 |
| NK44-J4XFS | 72.1 | • | • | 61.9 | 3 | 8.2 | 17 |
| NK44-Q5E3S | 71.9 | • | • | 61.9 | 1 | 8.3 | 16 |
| Pioneer P45A79E | 71.0 | • | • | 61.5 | 2 | 8.7 | 25 |
| Progeny P4200RXS | 70.9 | • | • | 62.4 | 4 | 7.4 | 22 |
| Progeny P4521XFS | 70.8 | 66.7 | • | 63.5 | 3 | 6.0 | 26 |
| Axis 4112XFSTSTS | 70.1 | • | • | 62.6 | 4 | 7.0 | 23 |
| Eagle Seed ES4120XF | 70.0 | • | • | 62.0 | 4 | 7.9 | 19 |
| Pioneer P42A84E | 69.4 | • | • | 61.7 | 1 | 8.6 | 18 |
| NK42-T5XF | 68.8 | • | • | 62.3 | 2 | 7.7 | 21 |
| DELTA GROW 44XF41 | 68.7 | • | • | 61.9 | 2 | 8.2 | 21 |
| Progeny P4444RXS | 68.5 | • | • | 62.3 | 2 | 7.4 | 19 |
| Progeny P4202XFS | 67.7 | • | • | 63.4 | 1 | 5.9 | 25 |
| Dyna-Gro S43XS70 | 67.6 | 67.1 | 67.9 | 62.1 | 2 | 7.8 | 20 |
| Pioneer P40A90LX | 66.8 | • | • | 61.9 | 2 | 8.1 | 21 |
| NK45-V9E3 | 65.2 | • | • | 61.8 | 3 | 8.1 | 20 |
| Pioneer P45A40LX | 65.0 | • | • | 62.0 | 4 | 7.8 | 23 |
| Innictis MEX44122XF | 64.2 | • | • | 62.5 | 3 | 6.9 | 20 |
| Progeny P4505RXS | 63.9 | 66.7 | 67.5 | 62.5 | 4 | 7.0 | 21 |
| Integra 74383N | 63.5 | • | • | 61.3 | 2 | 8.9 | 23 |
| Dyna-Gro S45XF02 | 62.1 | • | • | 62.6 | 3 | 6.9 | 19 |
| Pioneer P40A36E | 60.6 | • | • | 61.8 | 2 | 8.1 | 17 |
| Dyna-Gro S42XF93S | 60.3 | • | • | 62.3 | 3 | 7.3 | 18 |
| DELTA GROW 45E33 | 59.1 | • | • | 61.9 | 1 | 7.9 | 24 |
| Progeny P4431E3 | 58.9 | 60.0 | • | 61.7 | 1 | 8.5 | 16 |

Continued

Table 20. Performance of Irrigated Soybean Varieties and Strains, Rohwer Research Station, Rohwer, Ark., 2022, Continued.

| Variety/Experimental Line | 2022 | 2-Year Average ^a (bu./ac) | 3-Year Average ^b (bu./ac) | Test Weight (lb/bu.) | Lodging Score ^c | Moisture (%) | Plant Height (in.) |
|---|------|---|---|-------------------------|----------------------------|--------------|--------------------|
| Relative Maturity 4.0–4.5, continued | | | | | | | |
| Pioneer P44A91E | 56.8 | • | • | 62.3 | 1 | 7.3 | 24 |
| NK43-Y9XFS | 56.7 | • | • | 61.1 | 2 | 9.1 | 17 |
| R18C-11737 | 56.5 | • | • | 61.6 | 3 | 8.4 | 20 |
| Dyna-Gro S41EN72 | 55.9 | • | • | 60.8 | 2 | 9.4 | 16 |
| NK43-V8XF | 54.7 | • | • | 61.7 | 2 | 8.2 | 16 |
| Integra 74142NS | 44.9 | • | • | 62.1 | 1 | 7.2 | 17 |
| Grand Mean | 68.0 | • | • | 62.2 | 3 | 7.6 | 21 |
| LSD (5%) | 2.3 | • | • | 0.6 | 1 | 0.9 | 3.6 |
| C.V. | 13.3 | • | • | 0.7 | • | 8.5 | 12.5 |
| Relative Maturity 4.6–4.9 | | | | | | | |
| Armor 48-D25 | 85.6 | 77.5 | 74.6 | 60.8 | 2 | 10.3 | 25 |
| Revere 4826XFS | 80.8 | • | • | 61.5 | 1 | 9.6 | 22 |
| Integra 54660NS | 80.7 | 75.5 | 77.7 | 61.6 | 2 | 8.9 | 21 |
| AG46XF3 | 79.3 | • | • | 60.7 | 2 | 10.5 | 25 |
| Pioneer P46A20LX | 79.3 | • | • | 60.9 | 2 | 10.0 | 33 |
| AG48XF3 | 79.2 | • | • | 61.4 | 1 | 9.5 | 27 |
| Revere 4795XS | 78.5 | 72.1 | 73.0 | 61.9 | 2 | 8.5 | 23 |
| USG 7481XF | 78.0 | 69.2 | • | 61.2 | 5 | 9.5 | 23 |
| NK47-Z1XF | 78.0 | • | • | 61.9 | 1 | 8.5 | 26 |
| Revere 4806XS | 77.5 | 73.2 | 74.3 | 61.3 | 2 | 9.8 | 25 |
| Dyna-Gro S46XS60 | 77.2 | 72.3 | 73.1 | 61.6 | 2 | 9.0 | 24 |
| DELTA GROW 46X65/STS | 77.0 | 69.3 | 70.0 | 61.4 | 1 | 9.3 | 25 |
| Progeny P4691XFS | 76.6 | • | • | 61.0 | 2 | 10.0 | 23 |
| NK48-H3XFS | 76.1 | • | • | 60.8 | 2 | 10.3 | 29 |
| Progeny P4821RX | 75.6 | 74.5 | 75.0 | 60.3 | 3 | 10.9 | 30 |
| Pioneer P47A64X | 75.6 | 72.4 | • | 60.7 | 5 | 10.2 | 22 |
| Axis 4641XFS | 74.2 | 69.8 | • | 61.0 | 2 | 10.0 | 25 |
| Revere 4606XFS | 73.8 | 69.7 | • | 61.4 | 2 | 9.2 | 25 |
| Integra 74893NS | 73.4 | • | • | 61.9 | 1 | 8.6 | 26 |
| Innvincit MEX49992XF | 73.4 | • | • | 62.3 | 2 | 7.9 | 26 |
| Dyna-Gro S47XF23S | 72.7 | • | • | 62.1 | 2 | 8.3 | 23 |
| AG47XF3 | 72.6 | • | • | 61.7 | 1 | 9.0 | 28 |
| Progeny P4604XFS | 72.3 | 68.9 | • | 61.2 | 2 | 9.8 | 25 |
| DELTA GROW 47E20/STS | 72.3 | 68.7 | 68.8 | 61.4 | 2 | 9.2 | 25 |
| Dyna-Gro S46ES91 | 72.2 | 70.6 | 70.1 | 61.2 | 1 | 9.4 | 25 |

Continued

Table 20. Performance of Irrigated Soybean Varieties and Strains, Rohwer Research Station, Rohwer, Ark., 2022, Continued.

| Variety/Experimental Line | 2022 | 2-Year | 3-Year | Test Weight (lb/bu.) | Lodging Score ^c | Moisture (%) | Plant Height (in.) |
|---|------|----------------------------------|----------------------|-------------------------|----------------------------|--------------|--------------------|
| | | Average ^a (bu./ac) | Average ^b | | Score ^c | | |
| Relative Maturity 4.6–4.9, continued | | | | | | | |
| DONMARIO DM48F53 | 72.0 | • | • | 60.6 | 3 | 10.8 | 27 |
| AG49XF3 | 72.0 | • | • | 62.6 | 2 | 7.5 | 28 |
| DELTA GROW 48XF33/STS | 71.6 | • | • | 61.5 | 1 | 8.9 | 26 |
| Integra 74621NS | 71.0 | 67.8 | • | 61.7 | 1 | 8.7 | 25 |
| S17-2193C | 70.4 | • | • | 61.2 | 3 | 9.3 | 30 |
| DELTA GROW 46XF18 | 69.7 | • | • | 61.4 | 3 | 9.1 | 23 |
| Armor 46-F96 | 69.6 | • | • | 61.2 | 3 | 9.4 | 24 |
| Revere 4727XF | 69.2 | • | • | 62.1 | 2 | 8.0 | 27 |
| NK49-T6E3S | 69.2 | • | • | 61.3 | 2 | 9.5 | 28 |
| Progeny P4732XF | 68.9 | • | • | 61.2 | 2 | 9.4 | 25 |
| USG 7463XFS | 68.6 | • | • | 61.3 | 2 | 9.2 | 23 |
| Progeny P4775E3S | 68.6 | 67.3 | 70.0 | 60.5 | 1 | 10.9 | 24 |
| Axis 4613XF | 68.5 | • | • | 61.3 | 3 | 9.2 | 23 |
| DELTA GROW 48X45 | 67.9 | 70.1 | 68.3 | 61.8 | 1 | 8.6 | 39 |
| Revere 4925XF | 67.3 | • | • | 62.4 | 1 | 8.1 | 27 |
| DELTA GROW 48E59 | 66.9 | 66.4 | • | 60.9 | 1 | 10.2 | 24 |
| R18-14753 | 66.7 | 65.9 | • | 60.5 | 4 | 10.6 | 29 |
| Dyna-Gro S49EN12 | 66.5 | • | • | 61.1 | 1 | 9.9 | 29 |
| Dyna-Gro S49XF82S | 66.2 | • | • | 62.6 | 2 | 7.4 | 29 |
| S16-7922C | 66.2 | 65.3 | • | 61.4 | 3 | 9.3 | 30 |
| USG 7461XFS | 65.8 | 64.0 | • | 61.6 | 2 | 9.1 | 24 |
| Progeny P4951XFS | 65.5 | • | • | 62.9 | 1 | 7.2 | 29 |
| Innotech 4737E3 | 65.3 | • | • | 62.2 | 1 | 8.1 | 27 |
| Dyna-Gro S46XF31S | 65.1 | 66.0 | • | 60.6 | 2 | 10.2 | 23 |
| PL2E472 | 65.0 | • | • | 59.7 | 1 | 12.2 | 20 |
| Innotech 4918E3 | 64.9 | • | • | 61.4 | 4 | 9.1 | 30 |
| Pioneer P48A14E | 64.9 | • | • | 60.8 | 2 | 10.0 | 27 |
| Integra 74731NS | 64.8 | 65.2 | • | 60.8 | 1 | 10.2 | 28 |
| Integra 54891NS | 64.2 | 67.4 | 68.5 | 62.6 | 1 | 7.5 | 25 |
| Armor 48-F22 | 63.7 | 65.5 | • | 60.7 | 2 | 10.0 | 25 |
| Axis 4813XFS | 63.5 | • | • | 62.7 | 1 | 7.3 | 27 |
| DELTA GROW 48E60 | 63.4 | • | • | 61.7 | 1 | 8.8 | 22 |
| Innictis MEX46332XF | 63.1 | • | • | 61.2 | 2 | 9.5 | 23 |
| DELTA GROW 49XF29/STS | 63.0 | • | • | 62.8 | 1 | 7.3 | 30 |
| R19C-3148 | 62.9 | • | • | 62.2 | 1 | 8.1 | 29 |

Continued

Table 20. Performance of Irrigated Soybean Varieties and Strains, Rohwer Research Station, Rohwer, Ark., 2022, Continued.

| Variety/Experimental Line | 2022 | 2-Year Average ^a (bu./ac) | 3-Year Average ^b (bu./ac) | Test Weight (lb/bu.) | Lodging Score ^c | Moisture (%) | Plant Height (in.) |
|---|------|---|---|-------------------------|----------------------------|--------------|--------------------|
| Relative Maturity 4.6–4.9, continued | | | | | | | |
| S16-13165C | 62.8 | • | • | 62.0 | 3 | 8.2 | 28 |
| R18C-13665 | 62.8 | • | • | 62.0 | 2 | 8.3 | 29 |
| Armor 49-F37 | 61.6 | • | • | 61.2 | 1 | 9.5 | 23 |
| Dyna-Gro S47XF52 | 60.6 | • | • | 61.7 | 5 | 8.6 | 26 |
| R19C-3159 | 60.2 | • | • | 61.6 | 2 | 8.8 | 29 |
| USG 7493ETS | 60.1 | • | • | 62.6 | 4 | 7.1 | 27 |
| Eagle Seed ES4875XF | 60.0 | 63.5 | • | 60.8 | 1 | 9.8 | 27 |
| DELTA GROW 49E80 | 59.9 | • | • | 61.4 | 1 | 9.4 | 28 |
| R19C-3191 | 59.8 | • | • | 62.6 | 1 | 7.4 | 29 |
| R18C-144 | 59.3 | • | • | 61.2 | 4 | 9.3 | 30 |
| DELTA GROW 48E49/STS | 59.1 | 61.2 | 64.1 | 60.7 | 1 | 10.0 | 26 |
| Progeny P4844XFS | 59.0 | • | • | 62.9 | 2 | 7.0 | 25 |
| Armor 46-F13 | 58.9 | 62.6 | • | 61.8 | 2 | 8.4 | 24 |
| R18-14147 | 58.3 | • | • | 61.0 | 1 | 9.9 | 25 |
| R19C-3151 | 57.7 | • | • | 62.4 | 2 | 7.9 | 28 |
| Progeny P4798XF | 56.9 | • | • | 63.2 | 2 | 6.3 | 29 |
| R18C-13253 | 56.8 | • | • | 62.0 | 4 | 8.1 | 30 |
| Progeny P4932E | 55.6 | • | • | 61.9 | 1 | 8.6 | 27 |
| R18-14502 | 55.4 | 59.2 | • | 60.8 | 2 | 9.9 | 27 |
| R19C-3152 | 54.8 | • | • | 62.5 | 1 | 7.6 | 29 |
| Progeny P4806XFS | 50.9 | 59.9 | • | 61.1 | 1 | 9.1 | 25 |
| R18-5798 | 50.6 | • | • | 60.6 | 6 | 10.3 | 29 |
| DELTA GROW 46E10 | 50.2 | 55.8 | • | 60.7 | 1 | 10.0 | 19 |
| DELTA GROW 47E35/STS | 48.8 | • | • | 61.5 | 2 | 8.5 | 25 |
| Grand Mean | 67.0 | • | • | 61.5 | 2 | 9.1 | 26 |
| LSD | 9.2 | • | • | 0.8 | 1 | 1.4 | 4.4 |
| C.V. | 10.2 | • | • | 1.0 | • | 11.2 | 12.3 |
| Relative Maturity 5.0–5.9 | | | | | | | |
| Revere 5029XF | 79.5 | • | • | • | 3 | 6.4 | 29 |
| Progeny P5045E3S | 77.1 | • | • | • | 2 | 5.5 | 32 |
| DELTA GROW 52XF22/STS | 71.2 | • | • | • | 3 | 8.5 | 30 |
| R19C-3169 | 70.3 | • | • | • | 2 | 9.3 | 29 |
| S16-14801C | 70.1 | 73.8 | • | • | 5 | 7.9 | 27 |

Continued

Table 20. Performance of Irrigated Soybean Varieties and Strains, Rohwer Research Station, Rohwer, Ark., 2022, Continued.

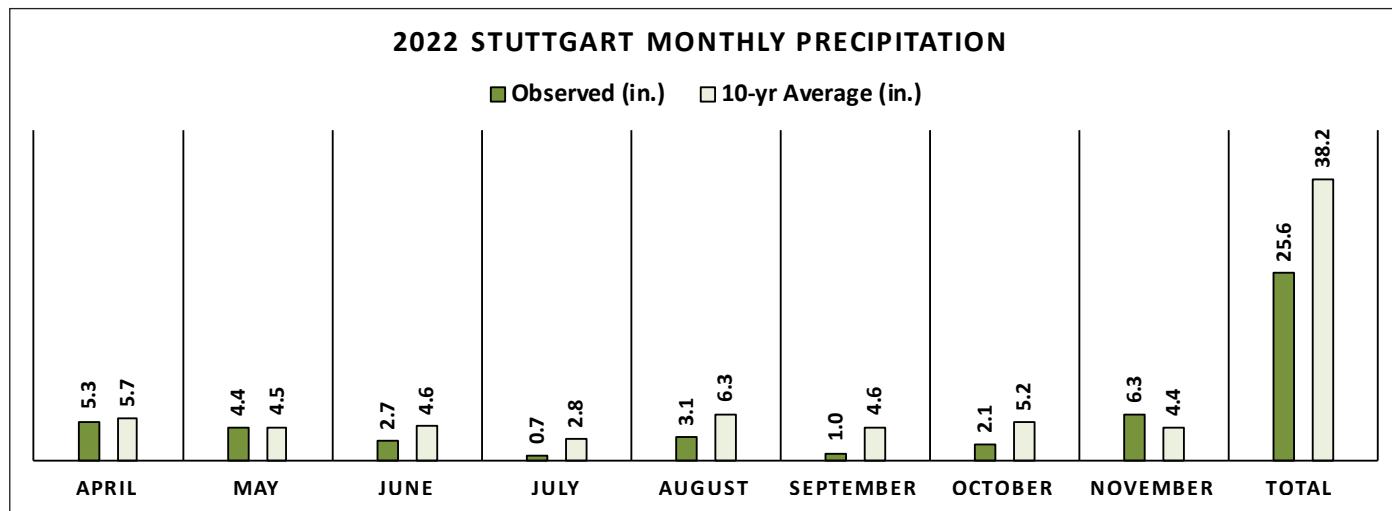
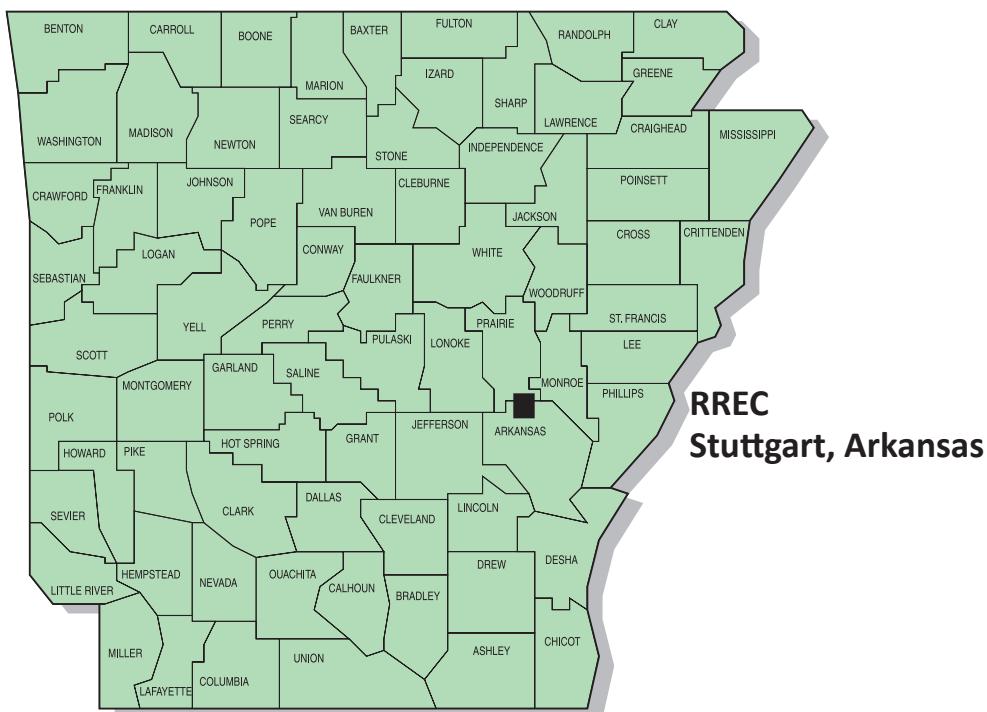
| Variety/Experimental Line | 2022 | 2-Year Average ^a (bu./ac) | 3-Year Average ^b (bu./ac) | Test Weight (lb/bu.) | Lodging Score ^c | Moisture (%) | Plant Height (in.) |
|---|------|---|---|-------------------------|----------------------------|--------------|--------------------|
| Relative Maturity 5.0–5.9, continued | | | | | | | |
| Progeny P5554RX | 70.0 | • | • | • | 1 | 6.6 | 32 |
| Progeny P5150XFS | 68.9 | • | • | • | 3 | 6.6 | 26 |
| Dyna-Gro S54XF62 | 65.8 | • | • | • | 1 | 7.2 | 36 |
| R18-13337 | 63.7 | • | • | • | 1 | 7.3 | 27 |
| Innotech 5143E3 | 63.0 | • | • | • | 3 | 11.8 | 27 |
| R18-14272 | 61.8 | • | • | • | 5 | 5.7 | 29 |
| Progeny P5016RXS | 61.5 | • | • | • | 2 | 9.9 | 26 |
| DELTA GROW 54XF20 | 61.5 | • | • | • | 1 | 7.2 | 37 |
| DELTA GROW 51E30 | 61.2 | • | • | • | 2 | 10.4 | 27 |
| Progeny P5056XFS | 61.2 | • | • | • | 3 | 10.7 | 29 |
| Armor 51-F88 | 60.8 | • | • | • | 3 | 10.4 | 28 |
| R19C-3085 | 59.1 | • | • | • | 4 | 6.6 | 28 |
| R18-14286 | 58.8 | • | • | • | 8 | 9.2 | 38 |
| R19C-3144 | 58.7 | • | • | • | 2 | 10.2 | 31 |
| Revere 5429E3 | 58.3 | • | • | • | 8 | 7.1 | 33 |
| R18-3332 | 58.2 | • | • | • | 4 | 6.6 | 35 |
| R19C-3182 | 57.3 | • | • | • | 2 | 9.5 | 30 |
| Progeny P5521E3 | 56.3 | • | • | • | 7 | 7.9 | 33 |
| PL2E502 | 55.9 | • | • | • | 5 | 8.2 | 27 |
| R19C-3194 | 52.6 | • | • | • | 2 | 13.2 | 28 |
| DELTA GROW 52E80 | 51.9 | 57.1 | • | • | 2 | 12.6 | 27 |
| Innotech 5360E3 | 51.4 | • | • | • | 2 | 12.2 | 27 |
| Revere 5614XF | 50.3 | 55.9 | • | • | 1 | 6.1 | 31 |
| R17-283F | 49.1 | 56.0 | • | • | 1 | 4.0 | 34 |
| Grand Mean | 62.5 | • | • | • | 3 | 8.3 | 30 |
| LSD (5%) | 8.8 | • | • | • | 2 | 4.0 | 2.9 |
| C.V. | 10.4 | • | • | • | • | • | 6.9 |

^a Average yield from 2021 and 2022.^b Average yield from 2020, 2021, 2022.^c 1 = 10° angle; 2 = 11–20° angle; 3 = 21–30° angle; 4 = 31–40° angle; 5 = 41–50° angle; 6 = 51–60° angle; 7 = 61–70° angle; 8 = 71–80° angle; 9 = 81–90° angle.

• = data not available.

Stuttgart: Rice Research and Extension Center (RREC)

Irrigated Soybean Varieties and Strains, 2022



| Soil Series | Harvest | Date |
|-------------------------------------|--|-----------------|
| Crowley silt loam | Relative Maturity (RM) (4.0–4.5), RM (4.6–4.9), RM (5.0–5.9) | Oct. 13, 18, 18 |
| Previous Crop | Fertilizer Application(s) | Date |
| Rice | 0-50-75 | April 29 |
| Row Spacing | Herbicide Application(s) | Date |
| 30 in. | Dual Magnum® 1 pt/ac | June 30 |
| Planting Date | Select® 1pt/ac | June 15 |
| May 20 | Flexstar® 1 pt/ac, Storm® 1/2 pt/ac | June 16 |
| Irrigation Dates | Trial Comments: Non-Xtend soybean varieties repeatedly showed symptoms consistent with injury attributed to off-target movement of dicamba. | |
| July 2, 17; Aug. 13; Sept. 2, 22 | | |

Table 21. Performance of Irrigated Soybean Varieties and Strains, Rice Research and Extension Center, Stuttgart, Ark., 2022.

| Variety/Experimental Line | 2022 | 2-Year Average ^a | 3-Year Average ^b | Maturity Date | Lodging Score ^c | Plant Height (in.) | Moisture (%) |
|----------------------------------|------------------------|--------------------------------|--------------------------------|------------------|-------------------------------|--------------------------|-----------------|
| | ----- (bu./ac)----- | | | | | | |
| Relative Maturity 4.0–4.5 | | | | | | | |
| Progeny P4505RXS | 84.0 | 79.1 | 79.4 | 9/29 | 0 | 44 | 9.6 |
| DONMARIO DM45F23 | 81.4 | • | • | 9/25 | 0 | 37 | 9.6 |
| Progeny P4200RXS | 79.9 | • | • | 9/28 | 0 | 39 | 10.0 |
| NK43-Y9XFS | 79.2 | • | • | 9/25 | 0 | 37 | 9.5 |
| NK43-V8XF | 78.9 | • | • | 9/25 | 0 | 40 | 9.7 |
| Revere 4526XF | 78.7 | • | • | 9/25 | 0 | 38 | 9.7 |
| Pioneer P40A90LX | 78.6 | • | • | 9/23 | 0 | 38 | 9.6 |
| NK45-V9E3 | 78.6 | • | • | 9/28 | 0 | 35 | 9.5 |
| AG45XF3 | 78.6 | • | • | 9/24 | 0 | 37 | 9.6 |
| Dyna-Gro S43XS70 | 77.9 | 73.2 | 75.7 | 9/27 | 0 | 36 | 9.5 |
| Progeny P4202XFS | 77.6 | • | • | 10/2 | 0 | 37 | 9.1 |
| Armor 44-D49 | 77.6 | 75.9 | 75.9 | 9/26 | 0 | 40 | 9.6 |
| Integra 74383N | 77.5 | • | • | 9/24 | 0 | 39 | 9.6 |
| Pioneer P44A21X | 77.5 | • | • | 9/25 | 0 | 36 | 9.6 |
| Pioneer P42A84E | 77.4 | • | • | 9/27 | 0 | 36 | 9.4 |
| Revere 4415XF | 77.0 | 75.0 | • | 9/27 | 0 | 36 | 9.8 |
| Integra 74142NS | 76.7 | • | • | 9/27 | 0 | 32 | 9.6 |
| NK44-J4XFS | 75.7 | • | • | 9/24 | 0 | 35 | 9.8 |
| Dyna-Gro S45XF02 | 75.4 | • | • | 9/29 | 0 | 36 | 9.8 |
| Eagle Seed ES4120XF | 75.3 | • | • | 9/24 | 0 | 37 | 9.7 |
| NK44-Q5E3S | 75.3 | • | • | 9/28 | 0 | 32 | 9.4 |
| NK42-T5XF | 75.1 | • | • | 9/25 | 0 | 35 | 9.6 |
| Innictis MEX44122XF | 74.9 | • | • | 9/26 | 0 | 41 | 9.6 |
| NK45-P9XF | 74.9 | • | • | 9/26 | 0 | 41 | 9.6 |
| Armor 45-F02 | 74.5 | • | • | 9/25 | 0 | 37 | 9.6 |
| Dyna-Gro S41EN72 | 74.3 | • | • | 9/23 | 0 | 32 | 9.8 |
| Pioneer P45A79E | 73.9 | • | • | 9/28 | 0 | 33 | 9.7 |
| Progeny P4521XFS | 73.9 | 72.3 | • | 9/27 | 0 | 38 | 9.1 |
| Axis 4522XF | 73.8 | 72.4 | • | 9/27 | 0 | 36 | 9.6 |
| Dyna-Gro S42XF93S | 73.0 | • | • | 9/27 | 0 | 37 | 9.7 |
| Pioneer P40A36E | 72.6 | • | • | 9/24 | 0 | 32 | 9.6 |
| Axis 4112XFSTSTS | 72.5 | • | • | 9/27 | 0 | 35 | 9.6 |
| Progeny P4444RXS | 70.7 | • | • | 9/23 | 0 | 35 | 9.5 |
| R19C-1012 | 70.0 | • | • | 9/28 | 0 | 43 | 9.6 |
| Dyna-Gro S45ES10 | 70.0 | 71.4 | 76.1 | 9/27 | 0 | 35 | 9.7 |

Continued

Table 21. Performance of Irrigated Soybean Varieties and Strains, Rice Research and Extension Center, Stuttgart, Ark., 2022, Continued.

| Variety/Experimental Line | 2022 | 2-Year Average ^a (bu./ac) | 3-Year Average ^b | Maturity Date | Lodging Score ^c | Plant Height (in.) | Moisture (%) |
|---|------|---|-----------------------------|---------------|----------------------------|-----------------------|--------------|
| Relative Maturity 4.0–4.5, continued | | | | | | | |
| Pioneer P44A91E | 69.8 | • | • | 9/27 | 0 | 30 | 9.3 |
| DELTA GROW 45E33 | 67.9 | • | • | 9/29 | 0 | 35 | 9.7 |
| Progeny P4431E3 | 66.3 | 65.5 | • | 9/25 | 0 | 36 | 9.3 |
| DELTA GROW 44XF41 | 65.3 | • | • | 9/25 | 0 | 35 | 9.3 |
| R18C-11737 | 64.2 | • | • | 9/25 | 0 | 31 | 9.9 |
| Pioneer P45A40LX | 62.3 | • | • | 9/26 | 0 | 36 | 9.8 |
| Grand Mean | 74.6 | • | • | 9/26 | • | 36 | 9.6 |
| LSD (5%) | 4.8 | • | • | 2.0 | • | 2.9 | 0.2 |
| C.V. | 4.7 | • | • | 0.6 | • | 5.8 | 1.6 |
| Relative Maturity 4.6–4.9 | | | | | | | |
| Revere 4727XF | 83.5 | • | • | 9/30 | 0 | 33 | 9.4 |
| Progeny P4821RX | 83.4 | 79.4 | 80.1 | 10/2 | 0 | 39 | 10.0 |
| DELTA GROW 46XF18 | 81.9 | • | • | 9/27 | 0 | 42 | 9.8 |
| Pioneer P47A64X | 81.9 | 78.4 | • | 9/29 | 0 | 44 | 9.6 |
| Innvincis MEX46332XF | 81.8 | • | • | 9/27 | 0 | 42 | 9.9 |
| Progeny P4844XFS | 81.4 | • | • | 9/30 | 0 | 37 | 9.4 |
| PL2E472 | 79.9 | • | • | 9/28 | 0 | 31 | 9.9 |
| Integra 74621NS | 78.6 | 75.4 | • | 9/29 | 0 | 43 | 9.8 |
| Revere 4826XFS | 78.4 | • | • | 9/29 | 0 | 39 | 9.6 |
| Axis 4813XFS | 78.1 | • | • | 9/29 | 0 | 35 | 9.3 |
| AG48XF3 | 77.7 | • | • | 9/29 | 0 | 38 | 9.6 |
| Integra 54891NS | 77.6 | 73.6 | 74.9 | 9/28 | 0 | 43 | 9.5 |
| Dyna-Gro S46XF31S | 77.5 | 73.5 | • | 9/29 | 0 | 41 | 9.8 |
| Progeny P4806XFS | 77.3 | 70.6 | • | 10/1 | 0 | 35 | 9.6 |
| Pioneer P46A20LX | 77.2 | • | • | 9/29 | 0 | 41 | 10.2 |
| Eagle Seed ES4875XF | 77.2 | 71.5 | • | 10/1 | 0 | 37 | 9.7 |
| USG 7461XFS | 77.0 | 73.9 | • | 9/30 | 0 | 42 | 9.8 |
| DELTA GROW 48X45 | 76.9 | 76.7 | 80.3 | 10/3 | 0 | 36 | 9.6 |
| NK47-Z1XF | 76.8 | • | • | 9/26 | 0 | 41 | 9.8 |
| Progeny P4951XFS | 75.3 | • | • | 10/3 | 0 | 35 | 9.4 |
| Revere 4606XFS | 74.9 | 72.9 | • | 9/29 | 0 | 39 | 9.7 |
| Armor 46-F13 | 74.7 | 73.5 | • | 9/28 | 0 | 39 | 9.7 |
| Progeny P4932E | 74.2 | • | • | 9/28 | 0 | 30 | 9.5 |
| Armor 48-F22 | 74.0 | 69.7 | • | 9/29 | 1 | 41 | 9.7 |
| AG49XF3 | 74.0 | • | • | 10/1 | 0 | 42 | 9.6 |

Continued

Table 21. Performance of Irrigated Soybean Varieties and Strains, Rice Research and Extension Center, Stuttgart, Ark., 2022, Continued.

| Variety/Experimental Line | 2022 | 2-Year Average ^a | 3-Year Average ^b | Maturity Date | Lodging Score ^c | Plant Height (in.) | Moisture (%) |
|---|----------|-----------------------------|-----------------------------|---------------|----------------------------|--------------------|--------------|
| | (bu./ac) | | | | | | |
| Relative Maturity 4.6–4.9, continued | | | | | | | |
| Revere 4795XS | 73.7 | 75.2 | 77.8 | 9/29 | 0 | 36 | 9.6 |
| Dyna-Gro S49XF82S | 73.7 | • | • | 9/28 | 0 | 37 | 9.5 |
| DELTA GROW 49XF29/STS | 73.5 | • | • | 10/2 | 0 | 34 | 9.5 |
| Revere 4806XS | 73.0 | 70.7 | 73.9 | 9/28 | 0 | 34 | 9.6 |
| R18-14753 | 72.8 | 70.6 | • | 9/27 | 1 | 37 | 10.5 |
| DELTA GROW 48E49/STS | 72.7 | 70.0 | 72.1 | 9/26 | 0 | 37 | 10.1 |
| DELTA GROW 46E10 | 72.3 | 65.0 | • | 9/26 | 0 | 37 | 9.7 |
| AG46XF3 | 72.2 | • | • | 9/27 | 0 | 36 | 10.0 |
| AG47XF3 | 72.1 | • | • | 9/29 | 0 | 40 | 9.5 |
| Dyna-Gro S47XF52 | 71.5 | • | • | 9/28 | 1 | 45 | 9.8 |
| Axis 4613XF | 71.3 | • | • | 9/27 | 0 | 38 | 9.9 |
| DELTA GROW 46X65/STS | 70.6 | 72.7 | 76.9 | 9/28 | 0 | 31 | 9.5 |
| Armor 49-F37 | 70.5 | • | • | 9/29 | 0 | 37 | 9.6 |
| Progeny P4798XF | 70.4 | • | • | 10/2 | 0 | 37 | 9.6 |
| Armor 46-F96 | 70.3 | • | • | 9/26 | 0 | 37 | 9.8 |
| Armor 48-D25 | 70.2 | 71.8 | 75.9 | 9/28 | 0 | 34 | 9.7 |
| Pioneer P48A14E | 70.0 | • | • | 10/1 | 0 | 35 | 9.4 |
| DELTA GROW 49E80 | 69.7 | • | • | 9/29 | 0 | 28 | 9.3 |
| Axis 4641XFS | 69.2 | 70.2 | • | 9/30 | 0 | 34 | 9.7 |
| NK49-T6E3S | 69.0 | • | • | 9/28 | 0 | 34 | 9.7 |
| Revere 4925XF | 68.5 | • | • | 9/30 | 0 | 35 | 9.8 |
| DELTA GROW 48E60 | 67.9 | • | • | 9/29 | 0 | 30 | 9.6 |
| USG 7493ETS | 67.8 | • | • | 9/29 | 0 | 42 | 9.5 |
| Dyna-Gro S49EN12 | 67.7 | • | • | 10/1 | 0 | 36 | 9.5 |
| S17-2193C | 67.5 | • | • | 9/30 | 0 | 39 | 9.5 |
| S16-7922C | 67.4 | 70.5 | • | 9/30 | 2 | 35 | 10.0 |
| Integra 74893NS | 67.1 | • | • | 9/29 | 0 | 35 | 9.8 |
| R18C-13665 | 67.1 | • | • | 9/28 | 0 | 33 | 9.8 |
| Dyna-Gro S46XS60 | 66.9 | 69.8 | 74.9 | 9/28 | 0 | 29 | 9.6 |
| Progeny P4775E3S | 66.8 | 66.9 | 68.9 | 9/26 | 0 | 38 | 10.0 |
| Dyna-Gro S46ES91 | 66.7 | 67.2 | 69.0 | 9/27 | 0 | 39 | 10.0 |
| S16-13165C | 65.8 | • | • | 9/28 | 0 | 43 | 9.8 |
| NK48-H3XFS | 65.7 | • | • | 9/30 | 0 | 29 | 9.9 |
| USG 7481XF | 65.5 | 67.7 | • | 9/28 | 1 | 36 | 9.8 |
| DELTA GROW 47E20/STS | 65.5 | 66.6 | 67.4 | 9/27 | 0 | 36 | 10.0 |

Continued

Table 21. Performance of Irrigated Soybean Varieties and Strains, Rice Research and Extension Center, Stuttgart, Ark., 2022, Continued.

| Variety/Experimental Line | 2022 | 2-Year Average ^a | 3-Year Average ^b | Maturity Date | Lodging Score ^c | Plant Height (in.) | Moisture (%) |
|---|----------|--------------------------------|--------------------------------|------------------|-------------------------------|--------------------------|-----------------|
| | (bu./ac) | | | | | | |
| Relative Maturity 4.6–4.9, continued | | | | | | | |
| R19C-3159 | 65.3 | • | • | 9/30 | 0 | 38 | 9.4 |
| Integra 54660NS | 64.8 | 70.8 | 72.6 | 9/28 | 0 | 30 | 9.7 |
| R19C-3148 | 64.6 | • | • | 9/30 | 0 | 37 | 9.3 |
| DELTA GROW 48E59 | 64.5 | 68.1 | • | 10/2 | 0 | 28 | 10.1 |
| R19C-3152 | 64.4 | • | • | 9/29 | 0 | 39 | 9.4 |
| R18-5798 | 64.4 | • | • | 9/27 | 0 | 51 | 10.1 |
| Progeny P4691XFS | 64.3 | • | • | 9/26 | 0 | 38 | 10.0 |
| R18-14502 | 64.2 | 66.9 | • | 9/28 | 1 | 41 | 9.7 |
| R18C-13253 | 63.6 | • | • | 9/30 | 1 | 41 | 9.4 |
| Innotech 4737E3 | 63.0 | • | • | 9/28 | 0 | 29 | 9.3 |
| DELTA GROW 47E35/STS | 62.6 | • | • | 9/29 | 0 | 33 | 9.3 |
| Innvictis MEX49992XF | 62.5 | • | • | 9/29 | 0 | 27 | 9.6 |
| R19C-3151 | 61.9 | • | • | 9/29 | 0 | 39 | 9.4 |
| Dyna-Gro S47XF23S | 61.6 | • | • | 9/30 | 0 | 28 | 9.5 |
| DELTA GROW 48XF33/STS | 61.4 | • | • | 9/28 | 0 | 31 | 9.6 |
| Innotech 4918E3 | 61.3 | • | • | 9/29 | 0 | 31 | 9.9 |
| Progeny P4604XFS | 61.1 | 67.0 | • | 9/28 | 0 | 31 | 9.6 |
| R18-14147 | 57.8 | • | • | 9/26 | 0 | 33 | 9.9 |
| R18C-144 | 57.6 | • | • | 9/26 | 0 | 40 | 10.0 |
| R19C-3191 | 56.6 | • | • | 9/28 | 0 | 34 | 9.0 |
| DONMARIO DM48F53 | 51.8 | • | • | 9/26 | 0 | 27 | 9.8 |
| Integra 74731NS | 48.4 | 56.7 | • | 9/28 | 0 | 26 | 9.6 |
| USG 7463XFS | 48.1 | • | • | 9/28 | 0 | 32 | 9.8 |
| Progeny P4732XF | 44.9 | • | • | 9/26 | 0 | 31 | 9.9 |
| Grand Mean | 69.4 | • | • | 9/29 | 0 | 36 | 9.7 |
| LSD | 10.6 | • | • | 1.2 | 0 | 7.2 | 0.2 |
| C.V. | 11.3 | • | • | 0.3 | • | 14.8 | 1.3 |
| Relative Maturity 5.0–5.9 | | | | | | | |
| Progeny P5056XFS | 80.9 | • | • | 10/6 | 1 | 43 | 10.1 |
| Innotech 5143E3 | 80.6 | • | • | 10/5 | 0 | 36 | 9.6 |
| Progeny P5150XFS | 80.2 | • | • | 10/5 | 0 | 36 | 9.6 |
| Revere 5029XF | 78.8 | • | • | 10/7 | 1 | 44 | 10.2 |
| Progeny P5016RXS | 77.4 | • | • | 10/4 | 0 | 43 | 9.7 |

Continued

Table 21. Performance of Irrigated Soybean Varieties and Strains, Rice Research and Extension Center, Stuttgart, Ark., 2022, Continued.

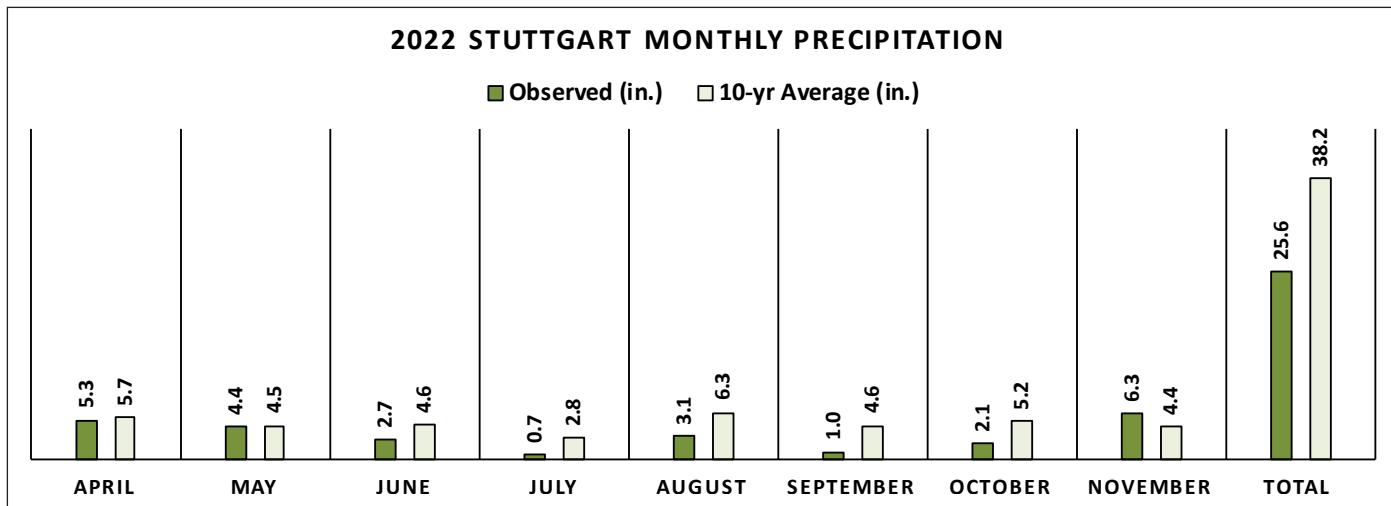
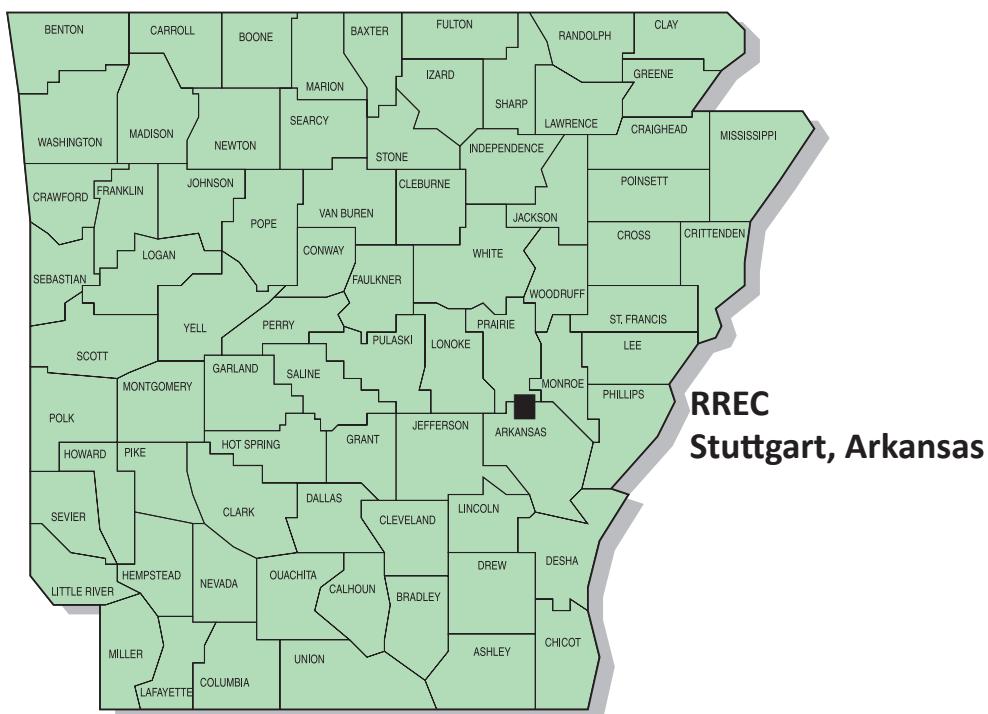
| Variety/Experimental Line | 2022 | 2-Year Average ^a | 3-Year Average ^b | Maturity Date | Lodging Score ^c | Plant Height | Moisture |
|---|----------|--------------------------------|--------------------------------|------------------|-------------------------------|-----------------|----------|
| | (bu./ac) | | | | | (in.) | (%) |
| Relative Maturity 5.0–5.9, continued | | | | | | | |
| Progeny P5554RX | 76.4 | • | • | 10/6 | 0 | 35 | 9.6 |
| Revere 5429E3 | 75.5 | • | • | 10/9 | 2 | 48 | 9.7 |
| DELTA GROW 52XF22/STS | 75.3 | • | • | 10/4 | 1 | 41 | 9.8 |
| Armor 51-F88 | 74.5 | • | • | 10/3 | 0 | 42 | 9.8 |
| DELTA GROW 54XF20 | 74.1 | • | • | 10/4 | 0 | 31 | 9.6 |
| S16-14801C | 73.6 | 74.7 | • | 10/4 | 1 | 32 | 10.3 |
| Innotech 5360E3 | 73.1 | • | • | 10/4 | 0 | 33 | 9.7 |
| Dyna-Gro S54XF62 | 72.2 | • | • | 10/3 | 0 | 31 | 9.7 |
| Progeny P5521E3 | 72.0 | • | • | 10/8 | 1 | 48 | 9.9 |
| R19C-3085 | 70.7 | • | • | 10/4 | 0 | 32 | 10.2 |
| R19C-3194 | 70.5 | • | • | 10/5 | 0 | 42 | 9.5 |
| R19C-3169 | 70.1 | • | • | 10/5 | 0 | 42 | 9.5 |
| DELTA GROW 52E80 | 69.9 | 71.4 | • | 10/5 | 0 | 36 | 9.6 |
| R18-14272 | 69.5 | • | • | 10/7 | 2 | 44 | 9.8 |
| PL2E502 | 68.6 | • | • | 10/4 | 1 | 41 | 10.1 |
| DELTA GROW 51E30 | 68.3 | • | • | 10/4 | 0 | 36 | 9.8 |
| R19C-3144 | 67.6 | • | • | 10/5 | 0 | 42 | 9.4 |
| R18-13337 | 67.5 | • | • | 10/5 | 0 | 27 | 10.1 |
| Progeny P5045E3S | 67.3 | • | • | 10/4 | 0 | 41 | 9.5 |
| R18-3332 | 66.6 | • | • | 10/4 | 0 | 40 | 10.1 |
| R17-283F | 63.4 | 65.6 | • | 10/5 | 0 | 31 | 9.9 |
| R19C-3182 | 62.0 | • | • | 10/5 | 0 | 41 | 9.4 |
| Revere 5614XF | 61.9 | 61.7 | • | 10/5 | 0 | 29 | 9.4 |
| R18-14286 | 60.6 | • | • | 10/7 | 2 | 45 | 9.6 |
| Grand Mean | 71.3 | • | • | 10/4 | 0 | 38 | 9.8 |
| LSD (5%) | 4.4 | • | • | 1.5 | 0 | 2.5 | 0.1 |
| C.V. | 4.5 | • | • | 0.4 | • | 4.7 | 1.0 |

^a Average yield from 2021 and 2022.^b Average yield from 2020, 2021, 2022.^c 0 = all plants erect, no lodging noted; 1 = 10° angle; 2 = 11–20° angle; 3 = 21–30° angle; 4 = 31–40° angle; 5 = 41–50° angle; 6 = 51–60° angle; 7 = 61–70° angle; 8 = 71–80° angle; 9 = 81–90° angle.

• = data not available.

Stuttgart: Rice Research and Extension Center (RREC)

Non-Irrigated Soybean Varieties and Strains, 2022



| Soil Series |
|-------------------|
| Crowley silt loam |
| Previous Crop |
| Rice |
| Row Spacing |
| 30 in. |
| Planting Date |
| May 20 |

| Harvest | Date |
|--|----------|
| Relative Maturity (RM) (4.0–4.5), RM (4.6–4.9), RM (5.0–5.9) | Oct. 5 |
| Fertilizer Application(s) | Date |
| 0-50-75 | April 29 |
| Herbicide Application(s) | Date |
| Dual Magnum® 1 pt/ac | June 30 |
| Select® 1pt/ac | June 15 |
| Flexstar® 1 pt/ac, Storm® 1/2 pt/ac | June 16 |
| Trial Comments: Non-Xtend soybean varieties repeatedly showed symptoms consistent with injury attributed to off-target movement of dicamba. | |

Table 22. Performance of Non-Irrigated Soybean Varieties and Strains, Rice Research and Extension Center, Stuttgart, Ark., 2022.

| Variety/Experimental Line | 2022 | 2-Year | 3-Year | Maturity Date | Shatter Score ^c | Plant Height (in.) | Moisture (%) |
|----------------------------------|------|----------------------------------|----------------------|---------------|----------------------------|--------------------|--------------|
| | | Average ^a (bu./ac) | Average ^b | | | | |
| Relative Maturity 4.0–4.5 | | | | | | | |
| Armor 44-D49 | 32.4 | 37.2 | 46.3 | 9/20 | 1 | 26 | 9.1 |
| NK45-V9E3 | 28.2 | • | • | 9/17 | 1 | 25 | 9.2 |
| Progeny P4505RXS | 28.1 | 35.2 | 43.7 | 9/19 | 1 | 25 | 9.0 |
| NK45-P9XF | 27.7 | • | • | 9/18 | 2 | 29 | 9.3 |
| Revere 4526XF | 27.4 | • | • | 9/21 | 1 | 24 | 9.5 |
| Armor 45-F02 | 27.2 | • | • | 9/20 | 1 | 25 | 9.5 |
| Progeny P4200RXS | 27.1 | • | • | 9/19 | 1 | 26 | 9.1 |
| Axis 4522XF | 26.9 | 35.3 | • | 9/21 | 1 | 23 | 9.3 |
| Pioneer P44A21X | 26.6 | • | • | 9/18 | 1 | 26 | 8.8 |
| AG45XF3 | 26.4 | • | • | 9/19 | 1 | 25 | 9.3 |
| Axis 4112XFSTSTS | 26.4 | • | • | 9/19 | 3 | 24 | 9.5 |
| Innvincit MEX44122XF | 26.2 | • | • | 9/19 | 2 | 26 | 9.3 |
| NK43-Y9XFS | 25.9 | • | • | 9/13 | 2 | 25 | 9.2 |
| Dyna-Gro S43XS70 | 25.9 | 35.0 | 42.7 | 9/18 | 1 | 23 | 9.2 |
| Dyna-Gro S45ES10 | 25.7 | 33.4 | 42.2 | 9/19 | 2 | 25 | 9.6 |
| Progeny P4444RXS | 25.7 | • | • | 9/17 | 1 | 25 | 9.1 |
| DELTA GROW 45E33 | 25.6 | • | • | 9/19 | 2 | 26 | 9.5 |
| Integra 74383N | 25.2 | • | • | 9/18 | 3 | 25 | 9.3 |
| Progeny P4521XFS | 25.1 | 33.3 | • | 9/22 | 1 | 24 | 9.1 |
| Dyna-Gro S42XF93S | 25.0 | • | • | 9/17 | 3 | 23 | 9.6 |
| Progeny P4202XFS | 24.9 | • | • | 9/22 | 1 | 25 | 9.2 |
| R19C-1012 | 24.7 | • | • | 9/21 | 1 | 28 | 9.6 |
| Dyna-Gro S45XF02 | 24.6 | • | • | 9/23 | 1 | 23 | 9.4 |
| Pioneer P40A36E | 24.2 | • | • | 9/19 | 2 | 23 | 9.0 |
| Revere 4415XF | 24.0 | 32.7 | • | 9/21 | 1 | 23 | 9.4 |
| Pioneer P42A84E | 23.9 | • | • | 9/17 | 1 | 24 | 8.7 |
| DONMARIO DM45F23 | 23.8 | • | • | 9/17 | 3 | 23 | 9.5 |
| Pioneer P45A40LX | 23.7 | • | • | 9/17 | 1 | 26 | 9.0 |
| Pioneer P40A90LX | 23.2 | • | • | 9/16 | 3 | 26 | 9.0 |
| NK42-T5XF | 22.9 | • | • | 9/20 | 1 | 22 | 9.3 |
| Dyna-Gro S41EN72 | 22.7 | • | • | 9/15 | 4 | 23 | 9.8 |
| Integra 74142NS | 22.3 | • | • | 9/19 | 2 | 22 | 9.3 |
| NK44-Q5E3S | 20.9 | • | • | 9/16 | 2 | 20 | 9.0 |
| R18C-11737 | 20.8 | • | • | 9/16 | 4 | 23 | 9.5 |
| Pioneer P45A79E | 20.5 | • | • | 9/19 | 2 | 24 | 8.9 |

Continued

Table 22. Performance of Non-Irrigated Soybean Varieties and Strains, Rice Research and Extension Center, Stuttgart, Ark., 2022, Continued.

| Variety/Experimental Line | 2022 | 2-Year Average ^a (bu./ac) | 3-Year Average ^b | Maturity Date | Shatter Score ^c | Plant Height (in.) | Moisture (%) |
|---|------|---|-----------------------------|---------------|----------------------------|--------------------|--------------|
| Relative Maturity 4.0–4.5, continued | | | | | | | |
| DELTA GROW 44XF41 | 20.4 | • | • | 9/16 | 1 | 25 | 9.5 |
| Eagle Seed ES4120XF | 18.4 | • | • | 9/15 | 4 | 25 | 9.1 |
| Pioneer P44A91E | 18.1 | • | • | 9/17 | 4 | 23 | 8.7 |
| NK44-J4XFS | 15.2 | • | • | 9/15 | 5 | 23 | 9.1 |
| Progeny P4431E3 | 13.3 | 26.4 | • | 9/14 | 5 | 22 | 9.1 |
| NK43-V8XF | 13.2 | • | • | 9/16 | 5 | 27 | 9.3 |
| Grand Mean | 24.0 | • | • | 9/18 | 2 | 24 | 9.2 |
| LSD (5%) | 3.2 | • | • | 1.7 | 1 | 2 | 0.2 |
| C.V. | 9.7 | • | • | 0.5 | • | 5.0 | 1.7 |
| Relative Maturity 4.6–4.9 | | | | | | | |
| R18-14753 | 33.9 | 38.5 | • | 9/18 | 1 | 27 | 9.5 |
| Axis 4641XFS | 32.2 | 37.9 | • | 9/22 | 1 | 28 | 9.0 |
| NK47-Z1XF | 32.0 | • | • | 9/23 | 1 | 28 | 9.3 |
| Invictis MEX49992XF | 31.5 | • | • | 9/22 | 1 | 23 | 8.9 |
| Pioneer P47A64X | 31.3 | 38.9 | • | 9/20 | 1 | 31 | 9.0 |
| Revere 4925XF | 31.0 | • | • | 9/23 | 1 | 28 | 9.2 |
| Pioneer P48A14E | 30.8 | • | • | 9/24 | 1 | 28 | 9.1 |
| Integra 74621NS | 30.7 | 37.7 | • | 9/21 | 1 | 29 | 9.2 |
| Progeny P4821RX | 30.6 | 39.3 | 47.0 | 9/21 | 1 | 27 | 9.3 |
| DONMARIO DM48F53 | 30.3 | • | • | 9/20 | 1 | 23 | 8.9 |
| Armor 48-F22 | 30.2 | 38.2 | • | 9/23 | 1 | 28 | 9.1 |
| Revere 4795XS | 30.1 | 38.9 | 45.8 | 9/23 | 1 | 25 | 9.1 |
| Dyna-Gro S46XF31S | 30.0 | 38.0 | • | 9/22 | 1 | 29 | 9.2 |
| Revere 4606XFS | 29.9 | 36.0 | • | 9/21 | 1 | 27 | 9.1 |
| R18-14502 | 29.7 | 35.7 | • | 9/22 | 1 | 32 | 9.1 |
| USG 7461XFS | 29.6 | 37.8 | • | 9/22 | 1 | 27 | 9.1 |
| AG46XF3 | 29.6 | • | • | 9/22 | 1 | 26 | 9.2 |
| Integra 54660NS | 29.5 | 37.6 | 45.3 | 9/22 | 1 | 24 | 9.0 |
| Innotech 4737E3 | 29.5 | • | • | 9/24 | 1 | 24 | 9.4 |
| Armor 46-F13 | 29.5 | 37.4 | • | 9/23 | 1 | 28 | 9.1 |
| DELTA GROW 48X45 | 29.4 | 37.6 | 43.9 | 9/25 | 1 | 27 | 9.1 |
| Integra 74731NS | 29.0 | 36.9 | • | 9/21 | 1 | 26 | 8.8 |
| S17-2193C | 28.9 | • | • | 9/21 | 1 | 30 | 9.1 |
| Armor 48-D25 | 28.9 | 35.3 | 43.8 | 9/23 | 1 | 26 | 9.1 |
| Dyna-Gro S47XF52 | 28.8 | • | • | 9/20 | 2 | 28 | 9.1 |

Continued

Table 22. Performance of Non-Irrigated Soybean Varieties and Strains, Rice Research and Extension Center, Stuttgart, Ark., 2022, Continued.

| Variety/Experimental Line | 2022 | 2-Year | 3-Year | Maturity Date | Shatter Score ^c | Plant Height (in.) | Moisture (%) |
|---|------|----------------------------------|----------------------|---------------|----------------------------|--------------------|--------------|
| | | Average ^a (bu./ac) | Average ^b | | | | |
| Relative Maturity 4.6–4.9, continued | | | | | | | |
| Revere 4806XS | 28.7 | 35.3 | 43.1 | 9/22 | 1 | 25 | 9.2 |
| Dyna-Gro S47XF23S | 28.7 | • | • | 9/21 | 1 | 25 | 9.0 |
| Progeny P4806XFS | 28.7 | 36.2 | • | 9/22 | 1 | 24 | 9.0 |
| Progeny P4798XF | 28.6 | • | • | 9/23 | 1 | 28 | 9.9 |
| Armor 46-F96 | 28.6 | • | • | 9/21 | 1 | 28 | 9.1 |
| DELTA GROW 48E59 | 28.6 | 34.2 | • | 9/20 | 1 | 26 | 8.9 |
| Pioneer P46A20LX | 28.5 | • | • | 9/18 | 2 | 30 | 8.9 |
| Revere 4826XFS | 28.5 | • | • | 9/21 | 1 | 26 | 9.1 |
| DELTA GROW 46X65/STS | 28.5 | 37.3 | 44.4 | 9/24 | 1 | 26 | 9.1 |
| Dyna-Gro S46XS60 | 28.4 | 35.2 | 43.2 | 9/22 | 1 | 26 | 9.1 |
| DELTA GROW 48E60 | 28.4 | • | • | 9/21 | 1 | 25 | 8.9 |
| NK49-T6E3S | 28.4 | • | • | 9/24 | 1 | 26 | 9.2 |
| R18C-13665 | 28.2 | • | • | 9/19 | 1 | 26 | 8.9 |
| AG48XF3 | 28.1 | • | • | 9/23 | 1 | 25 | 9.3 |
| PL2E472 | 28.1 | • | • | 9/22 | 1 | 23 | 9.5 |
| DELTA GROW 48E49/STS | 28.1 | 34.9 | 41.1 | 9/19 | 2 | 25 | 9.2 |
| Revere 4727XF | 27.9 | • | • | 9/21 | 1 | 25 | 8.8 |
| R18C-13253 | 27.9 | • | • | 9/23 | 2 | 28 | 9.4 |
| AG49XF3 | 27.8 | • | • | 9/24 | 1 | 28 | 9.6 |
| Integra 74893NS | 27.8 | • | • | 9/25 | 1 | 26 | 9.1 |
| Dyna-Gro S46ES91 | 27.7 | 36.3 | 40.7 | 9/21 | 2 | 28 | 9.1 |
| DELTA GROW 48XF33/STS | 27.6 | • | • | 9/21 | 1 | 27 | 9.0 |
| DELTA GROW 49E80 | 27.5 | • | • | 9/24 | 1 | 25 | 9.6 |
| Progeny P4932E | 27.5 | • | • | 9/23 | 1 | 22 | 9.4 |
| DELTA GROW 46XF18 | 27.3 | • | • | 9/20 | 1 | 28 | 9.2 |
| Progeny P4604XFS | 27.3 | 36.2 | • | 9/22 | 1 | 27 | 9.1 |
| AG47XF3 | 26.9 | • | • | 9/22 | 1 | 28 | 8.9 |
| S16-7922C | 26.9 | 34.7 | • | 9/23 | 1 | 33 | 9.5 |
| R19C-3148 | 26.9 | • | • | 9/25 | 1 | 30 | 10.1 |
| USG 7493ETS | 26.8 | • | • | 9/24 | 1 | 26 | 9.4 |
| Dyna-Gro S49XF82S | 26.7 | • | • | 9/22 | 1 | 26 | 8.8 |
| Armor 49-F37 | 26.6 | • | • | 9/21 | 1 | 28 | 8.9 |
| NK48-H3XFS | 26.5 | • | • | 9/23 | 1 | 22 | 9.3 |
| Axis 4813XFS | 26.5 | • | • | 9/21 | 1 | 25 | 8.8 |
| Progeny P4844XFS | 26.2 | • | • | 9/21 | 1 | 24 | 8.8 |

Continued

Table 22. Performance of Non-Irrigated Soybean Varieties and Strains, Rice Research and Extension Center, Stuttgart, Ark., 2022, Continued.

| Variety/Experimental Line | 2022 | 2-Year | 3-Year | Maturity Date | Shatter Score ^c | Plant Height (in.) | Moisture (%) |
|---|------|----------------------------------|----------------------|---------------|----------------------------|--------------------|--------------|
| | | Average ^a (bu./ac) | Average ^b | | | | |
| Relative Maturity 4.6–4.9, continued | | | | | | | |
| Axis 4613XF | 26.1 | • | • | 9/21 | 1 | 28 | 9.1 |
| DELTA GROW 47E20/STS | 26.1 | 34.3 | 39.8 | 9/21 | 1 | 27 | 8.2 |
| Progeny P4732XF | 25.9 | • | • | 9/20 | 1 | 26 | 9.4 |
| USG 7463XFS | 25.7 | • | • | 9/21 | 1 | 29 | 9.1 |
| Eagle Seed ES4875XF | 25.6 | 33.9 | • | 9/21 | 1 | 25 | 8.9 |
| R19C-3191 | 25.4 | • | • | 9/25 | 1 | 29 | 10.4 |
| Progeny P4691XFS | 25.3 | • | • | 9/19 | 3 | 25 | 9.0 |
| Progeny P4951XFS | 25.2 | • | • | 9/23 | 1 | 23 | 9.1 |
| USG 7481XF | 25.0 | 32.1 | • | 9/21 | 1 | 25 | 9.1 |
| R19C-3159 | 24.9 | • | • | 9/24 | 1 | 29 | 10.3 |
| Innvincis MEX46332XF | 24.8 | • | • | 9/19 | 1 | 28 | 9.1 |
| Integra 54891NS | 24.8 | 30.2 | 39.7 | 9/21 | 1 | 26 | 9.3 |
| R19C-3151 | 24.5 | • | • | 9/24 | 1 | 29 | 10.4 |
| Progeny P4775E3S | 23.9 | 32.7 | 39.3 | 9/21 | 2 | 27 | 9.2 |
| R19C-3152 | 23.8 | • | • | 9/25 | 1 | 28 | 10.3 |
| DELTA GROW 49XF29/STS | 23.7 | • | • | 9/22 | 1 | 23 | 9.2 |
| DELTA GROW 47E35/STS | 23.0 | • | • | 9/23 | 1 | 26 | 9.3 |
| Dyna-Gro S49EN12 | 22.4 | • | • | 9/23 | 2 | 25 | 9.8 |
| R18-14147 | 22.3 | • | • | 9/21 | 2 | 28 | 9.3 |
| R18-5798 | 22.3 | • | • | 9/23 | 1 | 33 | 9.5 |
| S16-13165C | 21.6 | • | • | 9/21 | 1 | 30 | 9.2 |
| Innotech 4918E3 | 21.2 | • | • | 9/19 | 1 | 24 | 9.0 |
| R18C-144 | 20.9 | • | • | 9/20 | 4 | 32 | 9.0 |
| DELTA GROW 46E10 | 18.8 | 28.2 | • | 9/15 | 5 | 25 | 8.8 |
| Grand Mean | 27.4 | • | • | 9/20 | 2 | 26 | 9.2 |
| LSD | 3.1 | • | • | 1.5 | 1 | 2.8 | 0.3 |
| C.V. | 8.3 | • | • | 0.4 | • | 8.0 | 2.6 |
| Relative Maturity 5.0–5.9 | | | | | | | |
| R18-14272 | 34.4 | • | • | 9/27 | 1 | 31 | 10.2 |
| Revere 5614XF | 32.9 | 32.6 | • | 9/29 | 1 | 23 | 17.7 |
| Progeny P5056XFS | 31.2 | • | • | 9/29 | 1 | 25 | 12.4 |
| Dyna-Gro S54XF62 | 30.7 | • | • | 9/27 | 1 | 26 | 21.0 |
| R19C-3194 | 30.6 | • | • | 9/29 | 1 | 29 | 15.1 |

Continued

Table 22. Performance of Non-Irrigated Soybean Varieties and Strains, Rice Research and Extension Center, Stuttgart, Ark., 2022, Continued.

| Variety/Experimental Line | 2022 | 2-Year | 3-Year | Maturity Date | Shatter Score ^c | Plant Height (in.) | Moisture (%) |
|---|------|----------------------------------|----------------------|---------------|----------------------------|--------------------|--------------|
| | | Average ^a (bu./ac) | Average ^b | | | | |
| Relative Maturity 5.0–5.9, continued | | | | | | | |
| S16-14801C | 30.6 | 36.3 | • | 9/26 | 1 | 27 | 10.1 |
| DELTA GROW 52XF22/STS | 29.5 | • | • | 9/27 | 1 | 24 | 11.0 |
| R19C-3182 | 29.4 | • | • | 9/27 | 1 | 27 | 16.0 |
| R18-13337 | 29.1 | • | • | 9/26 | 1 | 24 | 10.0 |
| R18-14286 | 29.0 | • | • | 9/26 | 1 | 30 | 12.6 |
| Innotech 5143E3 | 28.8 | • | • | 9/27 | 1 | 25 | 10.8 |
| Progeny P5016RXS | 28.5 | • | • | 9/26 | 1 | 28 | 10.3 |
| R19C-3144 | 28.5 | • | • | 9/26 | 1 | 28 | 13.5 |
| Progeny P5045E3S | 27.9 | • | • | 9/25 | 1 | 26 | 10.0 |
| Revere 5429E3 | 27.5 | • | • | 9/29 | 1 | 30 | 11.4 |
| DELTA GROW 51E30 | 27.3 | • | • | 9/28 | 1 | 23 | 13.4 |
| R19C-3169 | 26.5 | • | • | 9/25 | 1 | 27 | 10.1 |
| Progeny P5521E3 | 26.4 | • | • | 9/28 | 1 | 31 | 22.5 |
| Revere 5029XF | 25.8 | • | • | 9/27 | 1 | 25 | 12.8 |
| Armor 51-F88 | 25.6 | • | • | 9/27 | 1 | 24 | 10.2 |
| R19C-3085 | 25.6 | • | • | 9/25 | 1 | 27 | 9.7 |
| PL2E502 | 24.6 | • | • | 9/25 | 1 | 27 | 10.3 |
| DELTA GROW 54XF20 | 24.1 | • | • | 9/27 | 1 | 25 | 11.5 |
| Progeny P5554RX | 23.9 | • | • | 9/27 | 1 | 27 | 10.5 |
| Innotech 5360E3 | 23.1 | • | • | 9/26 | 1 | 20 | 11.7 |
| R17-283F | 22.8 | 28.6 | • | 9/29 | 1 | 26 | 10.3 |
| Progeny P5150XFS | 22.8 | • | • | 9/24 | 1 | 21 | 9.1 |
| R18-3332 | 22.5 | • | • | 9/26 | 1 | 27 | 10.5 |
| DELTA GROW 52E80 | 21.6 | 29.6 | • | 9/27 | 2 | 24 | 10.9 |
| Grand Mean | 26.9 | • | • | 9/26 | 1 | 26 | 12.1 |
| LSD (5%) | 3.9 | • | • | 2.4 | 1 | 1.8 | 3.8 |
| C.V. | 10.7 | • | • | 0.6 | 1 | 5.2 | 22.8 |

^a Average yield from 2021 and 2022.^b Average yield from 2020, 2021, 2022.^c 1 = no shattering; 2 = 1–3% shattered; 3 = 4–8% shattered; 4 = 9–19% shattered; 5 = 20% or more shattered.

• = data not available.

Table 23. Yields of Select Maturity Group IV Soybean Cultivars in Arkansas Performance Trial under Flooded vs. Non-Flooded Conditions, Rice Research and Extension Center, Stuttgart, Ark., 2022.^a

| Variety/ Experimental Line | Herbicide Technology | Relative Maturity | Non-Flooded ^b | | Flooded ^b (5 Days at V2) | |
|-------------------------------|-------------------------|----------------------|--------------------------|-----------------------|-------------------------------------|-----------------------|
| | | | Yield (bu./ac) | Plant Height (in.) | Yield (bu./ac) | Plant Height (in.) |
| AG46XF3 | XtendFlex | 4.6 | 59.1 | 34.3 | 50.8 | 29 |
| AG47XF3 | XtendFlex/SR | 4.7 | 55.3 | 28.0 | 29.3 | 22 |
| AG48XF3 | XtendFlex/SR | 4.8 | 56.7 | 29.7 | 40.3 | 25 |
| AG49XF3 | XtendFlex | 4.9 | 56.1 | 39.0 | 46.0 | 30 |
| DELTA GROW 44XF41 | XtendFlex | 4.4 | 62.4 | 28.3 | 50.4 | 23 |
| DELTA GROW 46X65/STS | Xtend | 4.6 | 60.4 | 31.7 | 43.2 | 23 |
| DELTA GROW 47E20/STS | Enlist E3 | 4.7 | 59.4 | 29.3 | 37.8 | 25 |
| DELTA GROW 48X45 | Xtend | 4.8 | 48.7 | 28.7 | 34.0 | 24 |
| DELTA GROW 48XF33/STS | XtendFlex | 4.8 | 60.6 | 28.7 | 45.2 | 23 |
| Dyna-Gro S46ES91 | Enlist/STS | 4.6 | 60.3 | 31.0 | 50.0 | 24 |
| Dyna-Gro S46XF31S | XtendFlex | 4.6 | 62.7 | 29.0 | 43.8 | 21 |
| Dyna-Gro S47XF52 | XtendFlex | 4.7 | 55.3 | 30.3 | 42.6 | 25 |
| Dyna-Gro S49EN12 | Enlist E3 | 4.6 | 64.0 | 32.7 | 53.7 | 27 |
| Dyna-Gro S49XF82S | XtendFlex/STS | 4.9 | 54.8 | 25.3 | 36.4 | 22 |
| Innotech 4737E3 | Enlist E3 | 4.7 | 57.0 | 32.0 | 40.5 | 26 |
| Innotech 4918E3 | Enlist E3 | 4.9 | 52.6 | 31.7 | 40.5 | 22 |
| Integra 54660NS | Xtend | 4.6 | 57.3 | 32.0 | 43.4 | 27 |
| Integra 54891NS | Xtend | 4.8 | 49.0 | 27.7 | 28.1 | 22 |
| Integra 74142NS | XtendFlex | 4.1 | 62.5 | 31.7 | 35.8 | 22 |
| Integra 74383N | XtendFlex | 4.3 | 65.7 | 31.3 | 55.5 | 25 |
| Integra 74621NS | XtendFlex | 4.6 | 58.3 | 28.3 | 48.5 | 24 |
| Integra 74731NS | XtendFlex | 4.7 | 65.2 | 32.7 | 48.8 | 27 |
| Integra 74893NS | XtendFlex | 4.8 | 59.2 | 31.7 | 44.3 | 26 |
| Progeny P4691XFS | XFS | 4.6 | 64.9 | 32.0 | 42.1 | 25 |
| Progeny P4732XF | XF | 4.7 | 62.6 | 29.7 | 52.8 | 26 |
| Progeny P4775E3S | Enlist E3S | 4.7 | 60.6 | 29.0 | 48.3 | 24 |
| Progeny P4798XF | XF | 4.7 | 59.9 | 34.0 | 48.5 | 27 |
| Progeny P4844XFS | XFS | 4.8 | 65.6 | 31.7 | 49.5 | 26 |
| Progeny P4932E3 | Enlist E3 | 4.9 | 62.8 | 29.7 | 45.5 | 24 |
| Progeny P4951XFS | XFS | 4.9 | 66.4 | 32.0 | 33.1 | 24 |
| R18-14147 | Conv. | 4.6 | 53.4 | 28.0 | 36.1 | 23 |
| R18-14502 | Conv. | 4.9 | 60.1 | 33.0 | 42.2 | 26 |
| R18-14753 | Conv. | 4.8 | 65.4 | 30.7 | 52.6 | 25 |
| R18-5798 | Conv. | 4.9 | 61.8 | 32.3 | 44.5 | 26 |
| R18C-11737 | Conv. | 4.3 | 46.9 | 26.0 | 36.5 | 19 |
| R18C-13253 | Conv. | 4.9 | 57.6 | 31.0 | 47.1 | 25 |
| R18C-13665 | Conv. | 4.6 | 57.7 | 32.3 | 56.4 | 28 |
| R18C-144 | Conv. | 4.7 | 61.2 | 33.3 | 52.9 | 28 |
| R19C-1012 | Conv. | 4.4 | 67.1 | 32.7 | 50.6 | 26 |
| R19C-3148 | Conv. | 4.8 | 63.8 | 29.3 | 53.1 | 24 |

Continued

Table 23. Yields of Select Soybean Cultivars in Arkansas Performance Trial under Flooded vs. Non-Flooded Conditions, Rice Research and Extension Center, Stuttgart, Ark., 2022.^a

| Variety/ Experimental Line | Herbicide Technology | Relative Maturity | Non-Flooded ^b | | Flooded ^b (5 Days at V2) | |
|-------------------------------|-------------------------|----------------------|--------------------------|-----------------------|-------------------------------------|-----------------------|
| | | | Yield (bu./ac) | Plant Height (in.) | Yield (bu./ac) | Plant Height (in.) |
| R19C-3151 | Conv. | 4.8 | 53.4 | 32.3 | 36.7 | 26 |
| R19C-3152 | Conv. | 4.9 | 65.0 | 30.3 | 50.6 | 24 |
| R19C-3159 | Conv. | 4.8 | 59.5 | 26.7 | 33.0 | 20 |
| R19C-3191 | Conv. | 4.6 | 49.9 | 34.0 | 45.3 | 24 |
| Revere 4415XF | XtendFlex | 4.4 | 50.7 | 29.0 | 32.9 | 24 |
| Revere 4526XF | XtendFlex | 4.5 | 56.1 | 26.0 | 38.7 | 22 |
| Revere 4606XFS | XtendFlex/STS | 4.6 | 64.4 | 34.0 | 44.0 | 27 |
| Revere 4727XF | XtendFlex | 4.7 | 56.6 | 30.3 | 40.8 | 23 |
| Revere 4795XS | RR2Xtend/STS | 4.7 | 59.0 | 29.7 | 37.5 | 24 |
| Revere 4806XS | Xtend/STS | 4.8 | 57.7 | 30.0 | 47.5 | 25 |
| Revere 4826XFS | XtendFlex/STS | 4.8 | 57.4 | 32.0 | 41.4 | 27 |
| Revere 4925XF | XtendFlex | 4.9 | 59.3 | 40.3 | 50.7 | 31 |
| USG 7463XFS | XtendFlex | 4.6 | 62.8 | 33.3 | 44.2 | 25 |
| USG 7493ETS | Enlist | 4.9 | 60.9 | 31.0 | 46.6 | 26 |
| Grand Mean | | | 59 | 30.8 | 43.9 | 25 |
| LSD | | | 4.5 | 2.4 | 13.8 | 3.0 |

Table 24. Yields of Select Maturity Group IV Soybean Cultivars in Arkansas Performance Trial under Flooded vs. Non-Flooded Conditions, Pine Tree Research Station, Colt, Ark., 2022.^a

| Variety/ Experimental Line | Herbicide Technology | Relative Maturity | Non-Flooded ^b | | Flooded ^b (5 Days at V2) | |
|-------------------------------|-------------------------|----------------------|--------------------------|-----------------------|-------------------------------------|-----------------------|
| | | | Yield (bu./ac) | Plant Height (in.) | Yield (bu./ac) | Plant Height (in.) |
| AG46XF3 | XtendFlex | 4.6 | 67.1 | 36.3 | 64.2 | 28 |
| AG47XF3 | XtendFlex/SR | 4.7 | 65.8 | 38.7 | 56.3 | 30 |
| AG48XF3 | XtendFlex/SR | 4.8 | 63.9 | 35.0 | 58.7 | 28 |
| AG49XF3 | XtendFlex | 4.9 | 66.9 | 35.7 | 59.7 | 29 |
| DELTA GROW 44XF41 | XtendFlex | 4.4 | 64.8 | 32.3 | 52.9 | 27 |
| DELTA GROW 46X65/STS | Xtend | 4.6 | 58.3 | 31.7 | 60.3 | 26 |
| DELTA GROW 47E20/STS | Enlist E3 | 4.7 | 48.3 | 33.0 | 47.1 | 27 |
| DELTA GROW 48X45 | Xtend | 4.8 | 60.3 | 34.0 | 56.2 | 25 |
| DELTA GROW 48XF33/STS | XtendFlex | 4.8 | 55.2 | 35.0 | 47.9 | 25 |
| Dyna-Gro S46ES91 | Enlist/STS | 4.6 | 55.9 | 34.7 | 49.7 | 27 |
| Dyna-Gro S46XF31S | XtendFlex | 4.6 | 60.8 | 36.0 | 58.4 | 27 |
| Dyna-Gro S47XF52 | XtendFlex | 4.7 | 58.4 | 40.0 | 50.0 | 30 |
| Dyna-Gro S49EN12 | Enlist E3 | 4.6 | 66.8 | 31.0 | 53.9 | 25 |
| Dyna-Gro S49XF82S | XtendFlex/STS | 4.9 | 67.6 | 31.7 | 56.9 | 26 |
| Innotech 4737E3 | Enlist E3 | 4.7 | 63.9 | 27.7 | 49.8 | 23 |
| Innotech 4918E3 | Enlist E3 | 4.9 | 59.7 | 32.0 | 45.4 | 22 |
| Integra 54660NS | Xtend | 4.6 | 69.2 | 32.7 | 59.8 | 26 |
| Integra 54891NS | Xtend | 4.8 | 67.2 | 34.7 | 51.4 | 30 |
| Integra 74142NS | XtendFlex | 4.1 | 57.3 | 31.7 | 48.5 | 24 |
| Integra 74383N | XtendFlex | 4.3 | 63.1 | 35.3 | 54.6 | 26 |
| Integra 74621NS | XtendFlex | 4.6 | 67.0 | 38.3 | 58.4 | 29 |
| Integra 74731NS | XtendFlex | 4.7 | 61.3 | 32.0 | 45.9 | 25 |
| Integra 74893NS | XtendFlex | 4.8 | 60.6 | 34.7 | 55.9 | 27 |
| Progeny P4691XFS | XFS | 4.6 | 68.9 | 38.0 | 59.8 | 30 |
| Progeny P4732XF | XF | 4.7 | 61.9 | 33.3 | 47.6 | 25 |
| Progeny P4775E3S | Enlist E3S | 4.7 | 59.0 | 34.0 | 56.9 | 26 |
| Progeny P4798XF | XF | 4.7 | 66.7 | 35.0 | 59.2 | 27 |
| Progeny P4844XFS | XFS | 4.8 | 64.4 | 29.7 | 51.0 | 24 |
| Progeny P4932E3 | Enlist E3 | 4.9 | 61.6 | 27.7 | 49.3 | 22 |
| Progeny P4951XFS | XFS | 4.9 | 65.2 | 31.3 | 52.3 | 24 |
| R18-14147 | Conv. | 4.6 | 53.7 | 39.3 | 48.7 | 29 |
| R18-14502 | Conv. | 4.9 | 56.3 | 34.7 | 49.2 | 25 |
| R18-14753 | Conv. | 4.8 | 55.7 | 30.0 | 47.5 | 24 |
| R18-5798 | Conv. | 4.9 | 53.6 | 40.7 | 49.2 | 31 |
| R18C-11737 | Conv. | 4.3 | 51.3 | 30.0 | 42.0 | 22 |
| R18C-13253 | Conv. | 4.9 | 66.0 | 36.0 | 48.4 | 27 |
| R18C-13665 | Conv. | 4.6 | 55.5 | 34.7 | 49.0 | 25 |
| R18C-144 | Conv. | 4.7 | 60.5 | 40.7 | 51.8 | 32 |
| R19C-1012 | Conv. | 4.4 | 58.6 | 38.3 | 55.3 | 28 |
| R19C-3148 | Conv. | 4.8 | 51.2 | 37.0 | 47.1 | 25 |

Continued

Table 24. Yields of Select Soybean Cultivars in Arkansas Performance Trial under Flooded vs. Non-Flooded Conditions, Pine Tree Research Station, Colt, Ark., 2022, Continued.^a

| Variety/ Experimental Line | Herbicide Technology | Relative Maturity | Non-Flooded ^b | | Flooded ^b (5 Days at V2) | |
|-------------------------------|-------------------------|----------------------|--------------------------|-----------------------|-------------------------------------|-----------------------|
| | | | Yield (bu./ac) | Plant Height (in.) | Yield (bu./ac) | Plant Height (in.) |
| R19C-3151 | Conv. | 4.8 | 52.7 | 35.3 | 47.5 | 27 |
| R19C-3152 | Conv. | 4.9 | 56.1 | 35.3 | 40.8 | 27 |
| R19C-3159 | Conv. | 4.8 | 56.3 | 35.7 | 44.3 | 26 |
| R19C-3191 | Conv. | 4.6 | 59.0 | 32.0 | 50.1 | 25 |
| Revere 4415XF | XtendFlex | 4.4 | 64.4 | 30.7 | 53.3 | 24 |
| Revere 4526XF | XtendFlex | 4.5 | 63.7 | 34.3 | 60.6 | 29 |
| Revere 4606XFS | XtendFlex/STS | 4.6 | 68.4 | 38.3 | 53.1 | 28 |
| Revere 4727XF | XtendFlex | 4.7 | 66.9 | 31.0 | 49.2 | 24 |
| Revere 4795XS | RR2Xtend/STS | 4.7 | 63.0 | 33.0 | 53.7 | 25 |
| Revere 4806XS | Xtend/STS | 4.8 | 64.1 | 33.3 | 55.0 | 26 |
| Revere 4826XFS | XtendFlex/STS | 4.8 | 62.9 | 33.0 | 57.0 | 25 |
| Revere 4925XF | XtendFlex | 4.9 | 66.3 | 34.7 | 56.9 | 27 |
| USG 7463XFS | XtendFlex | 4.6 | 61.7 | 31.7 | 53.1 | 24 |
| USG 7493ETS | Enlist | 4.9 | 58.8 | 38.3 | 50.0 | 28 |
| Grand Mean | | | 61.2 | 34.3 | 52.4 | 26 |
| LSD | | | 8.1 | 3.4 | 7.5 | 1.9 |

^a Variety by treatment was not significant.

^b Treatments (Flooded vs. Non-Flooded) were significantly different $P = <0.0001$.

Table 25. Yields of Select Maturity Group V Soybean Cultivars in Arkansas Performance Trial under Flooded vs. Non-Flooded Conditions, Rice Research and Extension Center, Stuttgart, Ark., 2022.^a

| Variety/ Experimental Line | Herbicide Technology | Relative Maturity | Non-Flooded ^b | | Flooded ^b (5 Days at V2) | |
|-------------------------------|-------------------------|----------------------|--------------------------|-----------------------|-------------------------------------|-----------------------|
| | | | Yield (bu./ac) | Plant Height (in.) | Yield (bu./ac) | Plant Height (in.) |
| DELTA GROW 52XF22/STS | XtendFlex | 5.2 | 58.8 | 34 | 38.4 | 23.0 |
| Innotech 5102E3 | Enlist E3 | 5.1 | 56.1 | 27 | 21.5 | 19.0 |
| Innotech 5143E3 | Enlist E3 | 5.1 | 65.7 | 30 | 37.8 | 23.0 |
| Integra 75003NS | XtendFlex | 5.0 | 66.2 | 29 | 42.6 | 19.7 |
| Progeny P5045E3S | Enlist E3S | 5.0 | 58.5 | 33 | 32.5 | 22.7 |
| Progeny P5056XFS | XFS | 5.0 | 66.5 | 34 | 38.9 | 23.3 |
| Progeny P5150XFS | XFS | 5.1 | 57.4 | 30 | 25.5 | 18.0 |
| R17-283F | Conv. | 5.3 | 64.2 | 29 | 47.4 | 20.7 |
| R18-13337 | Conv. | 5.0 | 57.7 | 25 | 41.8 | 16.3 |
| R18-14272 | Conv. | 5.1 | 58.9 | 37 | 35.3 | 22.3 |
| R18-14286 | Conv. | 5.4 | 63.4 | 34 | 49.0 | 24.0 |
| R18-3332 | Conv. | 5.2 | 62.0 | 33 | 51.2 | 24.3 |
| R19C-3085 | Conv. | 5.3 | 57.3 | 26 | 45.2 | 19.3 |
| R19C-3144 | Conv. | 5.2 | 57.9 | 33 | 47.9 | 26.0 |
| R19C-3169 | Conv. | 5.1 | 59.4 | 32 | 41.9 | 23.7 |
| R19C-3182 | Conv. | 5.0 | 58.6 | 35 | 51.8 | 26.7 |
| R19C-3194 | Conv. | 5.0 | 62.8 | 32 | 37.2 | 22.7 |
| Revere 5029XF | XtendFlex | 5.0 | 67.4 | 35 | 38.0 | 21.7 |
| Revere 5429E3 | Enlist E5 | 5.4 | 66.5 | 39 | 51.5 | 29.7 |
| Revere 5614XF | XtendFlex | 5.6 | 61.1 | 27 | 45.0 | 16.7 |
| Grand Mean | | | 59.6 | 32 | 39.0 | 22.1 |
| LSD | | | 4.1 | 2 | 11.5 | 2.6 |

^aVariety by treatment was significant $P = 0.0014^{**}$.

^bTreatments (Flooded vs. Non-Flooded) were significantly different $P = <0.0001$.

Table 26. Yields of Select Maturity Group V Soybean Cultivars in Arkansas Performance Trial under Flooded vs. Non-Flooded Conditions, Pine Tree Research Station, Colt, Ark., 2022.^a

| Variety/ Experimental Line | Herbicide Technology | Relative Maturity | Non-Flooded ^b | | Flooded ^b (5 Days at V2) | |
|-------------------------------|-------------------------|----------------------|--------------------------|-----------------------|-------------------------------------|-----------------------|
| | | | Yield (bu./ac) | Plant Height (in.) | Yield (bu./ac) | Plant Height (in.) |
| DELTA GROW 52XF22/STS | XtendFlex | 5.2 | 56.3 | 35 | 55.5 | 30.0 |
| Innotech 5102E3 | Enlist E3 | 5.1 | 48.7 | 25 | 45.5 | 21.7 |
| Innotech 5143E3 | Enlist E3 | 5.1 | 59.5 | 30 | 54.8 | 24.3 |
| Integra 75003NS | XtendFlex | 5.0 | 56.9 | 28 | 56.4 | 23.0 |
| Progeny P5045E3S | Enlist E3S | 5.0 | 46.5 | 36 | 49.5 | 28.3 |
| Progeny P5056XFS | XFS | 5.0 | 59.5 | 37 | 58.9 | 30.0 |
| Progeny P5150XFS | XFS | 5.1 | 57.9 | 29 | 59.3 | 24.7 |
| R17-283F | Conv. | 5.3 | 52.1 | 31 | 53.1 | 24.0 |
| R18-13337 | Conv. | 5.0 | 51.8 | 32 | 52.4 | 20.7 |
| R18-14272 | Conv. | 5.1 | 51.6 | 31 | 53.1 | 26.7 |
| R18-14286 | Conv. | 5.4 | 54.2 | 36 | 50.8 | 29.7 |
| R18-3332 | Conv. | 5.2 | 52.2 | 32 | 47.6 | 26.0 |
| R19C-3085 | Conv. | 5.3 | 53.1 | 28 | 51.9 | 20.7 |
| R19C-3144 | Conv. | 5.2 | 44.2 | 33 | 40.9 | 26.7 |
| R19C-3169 | Conv. | 5.1 | 41.9 | 31 | 44.5 | 26.0 |
| R19C-3182 | Conv. | 5.0 | 41.1 | 33 | 37.7 | 25.3 |
| R19C-3194 | Conv. | 5.0 | 44.3 | 33 | 45.9 | 26.3 |
| Revere 5029XF | XtendFlex | 5.0 | 59.1 | 36 | 56.6 | 27.3 |
| Revere 5429E3 | Enlist E5 | 5.4 | 56.7 | 36 | 40.8 | 30.7 |
| Revere 5614XF | XtendFlex | 5.6 | 57.7 | 28 | 57.8 | 21.0 |
| Mean | | | 51.5 | 32 | 49.7 | 25.9 |
| LSD | | | 6.8 | 3.1 | 9.7 | 3 |

^a Treatments (Flooded vs. Non-Flooded) were significantly different $P = <0.003$.

^b Variety by treatment was not significant.

Table 27. 2022 Evaluation of 154 Soybean Cultivars for Reaction to Root Knot Nematode.^a

| Variety Name^b | Herbicide Technology | Maturity | Avg. Field Gall | Avg. GH Gall |
|---------------------------------|-----------------------------|-----------------|---------------------------|---------------------------|
| | | | Rating^c | Rating^d |
| AG45XF3 | XtendFlex | 4.2 | 26.7 | 4.67 |
| AG46XF3 | XtendFlex/SR | 4.6 | 30.0 | 5.00 |
| AG47XF3 | XtendFlex/SR | 4.7 | 36.7 | 5.00 |
| AG48XF3 | XtendFlex/SR | 4.8 | 16.7 | 5.00 |
| AG49XF3 | XtendFlex | 4.9 | 19.0 | 4.74 |
| Armor 44-D49 | Xtend | 4.4 | 15.0 | 4.67 |
| Armor 45-F02 | XtendFlex | 4.5 | 24.3 | 5.00 |
| Armor 46-F13 | XtendFlex | 4.6 | 30.0 | 5.00 |
| Armor 46-F96 | XtendFlex | 4.6 | 11.0 | 4.83 |
| Armor 48-D25 | Xtend | 4.8 | 21.7 | 5.00 |
| Armor 48-F22 | XtendFlex | 4.8 | 31.7 | 5.00 |
| Armor 49-F37 | XtendFlex | 4.9 | 7.3 | 4.33 |
| Armor 51-F88 | XtendFlex | 5.1 | 16.7 | 5.00 |
| Axis 4112XFS | XtendFlex | 4.1 | 27.7 | 3.00 |
| Axis 4522XF | XtendFlex | 4.5 | 11.7 | 4.83 |
| Axis 4613XF | XtendFlex | 4.6 | 13.0 | 0.33 |
| Axis 4641XFS | XtendFlex | 4.6 | 27.7 | 5.00 |
| Axis 4813XFS | XtendFlex | 4.8 | 21.0 | • |
| DELTA GROW 44XF41 | XtendFlex | 4.4 | 17.7 | 5.00 |
| DELTA GROW 45E33 | Enlist | 4.5 | 16.0 | 5.00 |
| DELTA GROW 46E10 | Enlist | 4.6 | 7.7 | 3.00 |
| DELTA GROW 46X65/STS | Xtend | 4.6 | 24.3 | 5.00 |
| DELTA GROW 46XF18 | XtendFlex | 4.6 | 25.0 | 5.00 |
| DELTA GROW 47E20/STS | Enlist E3 | 4.7 | 10.0 | 4.90 |
| DELTA GROW 47E35/STS | Enlist E3 | 4.7 | 17.0 | 4.67 |
| DELTA GROW 48E49/STS | Enlist 3/STS | 4.8 | 26.7 | 4.67 |
| DELTA GROW 48E59 | Enlist E3 | 4.8 | 24.3 | 4.83 |
| DELTA GROW 48E60 | Enlist | 4.8 | 22.0 | 4.33 |
| DELTA GROW 48X45 | Xtend | 4.8 | 21.7 | 4.83 |
| DELTA GROW 48XF33/STS | XtendFlex | 4.8 | 11.0 | 4.83 |
| DELTA GROW 49E80 | Enlist | 4.9 | 10.0 | 4.83 |
| DELTA GROW 49XF29/STS | XtendFlex | 4.9 | 29.3 | 5.00 |
| DELTA GROW 51E30 | Enlist E3 | 5.3 | 7.7 | 4.98 |
| DELTA GROW 52E80 | Enlist E3 | 5.2 | 16.0 | 5.00 |
| DELTA GROW 52XF22/STS | XtendFlex | 5.2 | 12.3 | 4.50 |
| DELTA GROW 54XF20 | XtendFlex | 5.4 | 4.7 | 2.17 |
| DONMARIO DM45F23 | XtendFlex | 4.5 | 12.7 | 3.67 |
| DONMARIO DM48F53 | XtendFlex | 4.8 | 13.7 | 5.00 |
| Dyna-Gro S41EN72 | Enlist | 4.1 | 30.0 | 5.00 |
| Dyna-Gro S42XF93S | XtendFlex/STS | 4.0 | 30.0 | 5.00 |
| Dyna-Gro S43XS70 | Xtend/STS | 4.3 | 24.0 | 5.00 |
| Dyna-Gro S45ES10 | Enlist/STS | 4.5 | 21.7 | 4.83 |
| Dyna-Gro S45XF02 | XtendFlex | 4.5 | 16.0 | 4.49 |
| Dyna-Gro S46ES91 | Enlist/STS | 4.6 | 7.0 | 4.83 |
| Dyna-Gro S46XF31S | XtendFlex | 4.6 | 16.3 | 5.00 |

Continued

Table 27. 2022 Evaluation of 154 Soybean Cultivars for Reaction to Root Knot Nematode, Continued.^a

| Variety Name^b | Herbicide Technology | Maturity | Avg. Field Gall Rating^c | Avg. GH Gall Rating^d |
|---------------------------------|-----------------------------|-----------------|---|--|
| Dyna-Gro S46XS60 | Xtend/STS | 4.6 | 12.3 | 5.00 |
| Dyna-Gro S47XF23S | XtendFlex/STS | 4.8 | 21.7 | 5.00 |
| Dyna-Gro S47XF52 | XtendFlex | 4.7 | 21.0 | 4.50 |
| Dyna-Gro S49EN12 | Enlist E3 | 4.6 | 31.0 | 5.00 |
| Dyna-Gro S49XF82S | XtendFlex/STS | 4.9 | 12.7 | 4.83 |
| Dyna-Gro S54XF62 | XtendFlex | 5.4 | 8.7 | 3.00 |
| Eagle Seed ES41120XF | XF | 4.1 | 25.0 | 4.17 |
| Eagle Seed ES4875XF | XtendFlex | 4.8 | 21.7 | 4.17 |
| Innotech 4737E3 | Enlist E3 | 4.7 | 5.7 | 4.67 |
| Innotech 4918E3 | Enlist E3 | 4.9 | 3.0 | 3.78 |
| Innotech 5102E3 | Enlist E3 | 5.1 | 17.0 | 4.83 |
| Innotech 5143E3 | Enlist E3 | 5.1 | 9.3 | 4.50 |
| Innvictis MEX44122XF | XtendFlex | 4.4 | 40.0 | 4.50 |
| Innvictis MEX46332XF | XtendFlex | 4.6 | 23.3 | 4.83 |
| Innvictis MEX49992XF | XtendFlex | 4.9 | 12.3 | 4.50 |
| Integra 54660NS | Xtend | 4.6 | 36.0 | 4.17 |
| Integra 54891NS | Xtend | 4.8 | 25.0 | 5.00 |
| Integra 74142NS | XtendFlex | 4.1 | 21.7 | 5.00 |
| Integra 74383N | XtendFlex | 4.3 | 27.3 | 5.00 |
| Integra 74621NS | XtendFlex | 4.6 | 24.3 | 5.00 |
| Integra 74731NS | XtendFlex | 4.7 | 13.3 | 4.00 |
| Integra 74893NS | XtendFlex | 4.8 | 18.0 | 5.00 |
| NK42-T5XF | XtendFlex | 4.2 | 21.3 | 4.67 |
| NK43-V8XF | XtendFlex | 4.3 | 31.7 | 5.00 |
| NK43-Y9XFS | XtendFlex | 4.3 | 45.0 | 4.33 |
| NK44-J4XFS | XtendFlex | 4.4 | 18.7 | 5.00 |
| NK44-Q5E3S | Enlist | 4.4 | 14.3 | 4.33 |
| NK45-P9XF | XtendFlex | 4.5 | 36.7 | 5.00 |
| NK45-V9E3 | Enlist | 4.5 | 23.3 | 4.17 |
| NK47-Z1XF | XtendFlex | 4.7 | 27.3 | 5.00 |
| NK48-H3XFS | XtendFlex | 4.8 | 21.0 | -- |
| NK49-T6E3S | Enlist | 4.9 | 23.7 | 5.00 |
| Pioneer P40A36E | Enlist | 4.0 | 17.7 | 5.00 |
| Pioneer P40A90LX | RR2X Liberty | 4.0 | 19.3 | 4.83 |
| Pioneer P42A84E | Enlist | 4.2 | 25.0 | 4.17 |
| Pioneer P44A21X | RR2X | 4.4 | 11.3 | 5.00 |
| Pioneer P44A91E | Enlist | 4.4 | 18.0 | 5.00 |
| Pioneer P45A40LX | RR2X Liberty | 4.5 | 24.0 | 4.33 |
| Pioneer P45A79E | Enlist | 4.5 | 12.7 | 4.67 |
| Pioneer P46A20LX | RR2X Liberty | 4.6 | 18.3 | 4.33 |
| Pioneer P47A64X | RR2X | 4.7 | 18.3 | 4.17 |
| Pioneer P48A14E | Enlist | 4.8 | 26.7 | 4.83 |
| PL2E472 | Enlist E3 | 4.7 | 11.0 | 5.00 |
| PL2E502 | Enlist E3 | 5.0 | 14.0 | 4.00 |
| Progeny P4200RXS | RXS | 4.2 | 20.3 | 3.33 |

Continued

Table 27. 2022 Evaluation of 154 Soybean Cultivars for Reaction to Root Knot Nematode, Continued.^a

| Variety Name^b | Herbicide Technology | Maturity | Avg. Field Gall Rating^c | Avg. GH Gall Rating^d |
|---------------------------------|-----------------------------|-----------------|---|--|
| Progeny P4202XFS | XFS | 4.2 | 22.0 | 5.00 |
| Progeny P4431E3 | Enlist E3 | 4.4 | 11.3 | 4.00 |
| Progeny P4444RXS | RXS | 4.4 | 6.0 | 3.33 |
| Progeny P4505RXS | RXS | 4.5 | 20.0 | 4.00 |
| Progeny P4521XFS | XFS | 4.5 | 16.3 | 4.67 |
| Progeny P4604XFS | XFS | 4.6 | 27.3 | 5.00 |
| Progeny P4691XFS | XFS | 4.6 | 27.3 | 4.83 |
| Progeny P4732XF | XF | 4.7 | 25.0 | 5.00 |
| Progeny P4775E3S | Enlist E3S | 4.7 | 7.0 | 4.67 |
| Progeny P4798XF | XF | 4.7 | 23.3 | 5.00 |
| Progeny P4806XFS | XFS | 4.8 | 11.7 | 3.33 |
| Progeny P4821RX | RX | 4.8 | 9.3 | 5.00 |
| Progeny P4844XFS | XFS | 4.8 | 27.3 | 4.83 |
| Progeny P4932000 | Enlist E3 | 4.9 | 5.0 | 4.50 |
| Progeny P4951XFS | XFS | 4.9 | 28.3 | 5.00 |
| Progeny P5016RXS | RXS | 5.0 | 16.0 | 5.00 |
| Progeny P5045E3S | Enlist E3S | 5.0 | 22.7 | 5.00 |
| Progeny P5056XFS | XFS | 5.0 | 17.7 | 5.00 |
| Progeny P5150XFS | XFS | 5.1 | 24.3 | 5.00 |
| Progeny P5521E3 | Enlist E3 | 5.5 | 3.0 | 3.00 |
| Progeny P5554RX | RX | 5.4 | 6.3 | 2.78 |
| R17-283F | Conv. | 5.3 | 22.0 | 4.33 |
| R18-13337 | Conv. | 5.0 | 33.3 | 5.00 |
| R18-14147 | Conv. | 4.6 | 23.7 | 4.83 |
| R18-14272 | Conv. | 5.1 | 15.7 | 4.83 |
| R18-14286 | Conv. | 5.4 | 17.0 | 4.67 |
| R18-14502 | Conv. | 4.9 | 7.0 | 3.33 |
| R18-14753 | Conv. | 4.8 | 23.3 | 4.67 |
| R18-3332 | Conv. | 5.2 | 9.7 | 4.67 |
| R18-5798 | Conv. | 4.9 | 15.3 | 4.50 |
| R18C-11737 | Conv. | 4.3 | 10.0 | 4.17 |
| R18C-13253 | Conv. | 4.9 | 23.3 | 4.17 |
| R18C-13665 | Conv. | 4.6 | 14.0 | 5.00 |
| R18C-144 | Conv. | 4.7 | 22.7 | 4.67 |
| R19C-1012 | Conv. | 4.4 | 9.3 | 3.83 |
| R19C-3085 | Conv. | 5.3 | 21.7 | -- |
| R19C-3144 | Conv. | 5.2 | 10.0 | 4.83 |
| R19C-3148 | Conv. | 4.8 | 22.7 | 4.67 |
| R19C-3151 | Conv. | 4.8 | 12.0 | 4.67 |
| R19C-3152 | Conv. | 4.9 | 10.3 | 4.67 |
| R19C-3159 | Conv. | 4.8 | 10.3 | 4.48 |
| R19C-3169 | Conv. | 5.1 | 16.0 | 4.50 |
| R19C-3182 | Conv. | 5.0 | 17.3 | 4.67 |
| R19C-3191 | Conv. | 4.6 | 9.3 | 4.67 |
| R19C-3194 | Conv. | 5.0 | 14.7 | 4.67 |

Continued

Table 27. 2022 Evaluation of 154 Soybean Cultivars for Reaction to Root Knot Nematode, Continued.^a

| Variety Name^b | Herbicide Technology | Maturity | Avg. Field Gall Rating^c | Avg. GH Gall Rating^d |
|---------------------------------|-----------------------------|-----------------|---|--|
| Revere 4415XF | XtendFlex | 4.4 | 16.0 | 4.50 |
| Revere 4526XF | XtendFlex | 4.5 | 21.0 | 5.00 |
| Revere 4606XFS | XtendFlex | 4.6 | 15.7 | -- |
| Revere 4727XF | XtendFlex | 4.7 | 21.0 | 5.00 |
| Revere 4795XS | RR2Xtend/STS | 4.7 | 16.7 | 5.00 |
| Revere 4806XS | Xtend | 4.8 | 10.0 | 4.67 |
| Revere 4826XFS | XtendFlex | 4.8 | 26.7 | 5.00 |
| Revere 4925XF | XtendFlex | 4.9 | 19.3 | 5.00 |
| Revere 5029XF | XtendFlex | 5.0 | 13.7 | 4.67 |
| Revere 5429E3 | Enlist E5 | 5.4 | 3.3 | -- |
| Revere 5614XF | XtendFlex | 5.6 | 23.7 | 5.00 |
| S16-13165C | Conv. | 4.7 | 26.0 | 5.00 |
| S16-14801C | Conv. | 5.0 | 5.0 | 3.50 |
| S16-7922C | Conv. | 4.9 | 3.0 | 4.00 |
| S17-2193C | Conv. | 4.7 | 18.3 | 5.00 |
| USG 7461XFS | XtendFlex | 4.6 | 15.3 | 5.00 |
| USG 7463XFS | XtendFlex | 4.6 | 16.0 | 4.83 |
| USG 7481XF | XtendFlex | 4.8 | 18.3 | 5.00 |
| USG 7493ETS | Enlist | 4.9 | 28.3 | -- |

^a Evaluation of soybean cultivars for reaction to root-knot nematode was conducted in greenhouse and field tests. Nematode population density ranged from moderate to severe in the field and eggs of *M. incognita* were used as inoculum in the greenhouse test.

^b Each cultivar was replicated 3 times.

^c Field trials were conducted in a commercial production field near Kerr, Ark. Field ratings were assessed at the R5 growth stage based on the percentage root system galled whereas 0-1.0 = VR, 1.1-4.0 = R, 4.1-9.0 = MR, 9.1-20.0 = MS, 20.1-40.0 = S, 40.1-100 = VS.

^d Greenhouse trials were conducted at the Southwest Research and Extension Center, Hope, Ark. Greenhouse root gall ratings were a visual assessment 60 days after planting based on a 0-5 index scale of root system galled, whereas 0 = VR, 0.1-0.9 = R, 1.0-1.9 = MR, 2.0-2.9 = MS, 3.0-3.9 = S, 4.0-5.0 = VS.

• = data not available.

This data collected by Michael Emerson (Program Associate), Terry Spurlock (Associate Professor), Travis Faske (Professor/Extension Plant Pathologist), Mandy Tolbert (Program Associate), Brandon Baker (Program Technician) and Rob Hoyle (Program Technician).

Table 28. 2022 Evaluation of 154 Soybean Cultivars for Reaction to Stem Canker and Frogeye Leaf Spot.

| Variety Name^a | Herbicide Technology | Maturity | Stem Canker Rating^b | Frogeye Leaf Spot Rating^c |
|---------------------------------|-----------------------------|-----------------|---------------------------------------|---|
| AG45XF3 | XtendFlex | 4.2 | R | 4 |
| AG46XF3 | XtendFlex/SR | 4.6 | R | 5 |
| AG47XF3 | XtendFlex/SR | 4.7 | S | 0 |
| AG48XF3 | XtendFlex/SR | 4.8 | R | 4 |
| AG49XF3 | XtendFlex | 4.9 | R | 3 |
| Armor 44-D49 | Xtend | 4.4 | R | 1 |
| Armor 45-F02 | XtendFlex | 4.5 | R | 5 |
| Armor 46-F13 | XtendFlex | 4.6 | R | 4 |
| Armor 46-F96 | XtendFlex | 4.6 | R | 4 |
| Armor 48-D25 | Xtend | 4.8 | R | 3 |
| Armor 48-F22 | XtendFlex | 4.8 | R | 3 |
| Armor 49-F37 | XtendFlex | 4.9 | R | 0 |
| Armor 51-F88 | XtendFlex | 5.1 | R | 4 |
| Axis 4112XFS | XtendFlex | 4.1 | R | 4 |
| Axis 4522XF | XtendFlex | 4.5 | R | 0 |
| Axis 4613XF | XtendFlex | 4.6 | R | 4 |
| Axis 4641XFS | XtendFlex | 4.6 | R | 4 |
| Axis 4813XFS | XtendFlex | 4.8 | R | 2 |
| DELTA GROW 44XF41 | XtendFlex | 4.4 | R | 0 |
| DELTA GROW 45E33 | Enlist | 4.5 | R | 0 |
| DELTA GROW 46E10 | Enlist | 4.6 | R | 3 |
| DELTA GROW 46X65/STS | Xtend | 4.6 | R | 4 |
| DELTA GROW 46XF18 | XtendFlex | 4.6 | R | 4 |
| DELTA GROW 47E20/STS | Enlist E3 | 4.7 | R | 4 |
| DELTA GROW 47E35/STS | Enlist E3 | 4.7 | R | 4 |
| DELTA GROW 48E49/STS | Enlist 3/STS | 4.8 | R | 4 |
| DELTA GROW 48E59 | Enlist E3 | 4.8 | R | 3 |
| DELTA GROW 48E60 | Enlist | 4.8 | R | 4 |
| DELTA GROW 48X45 | Xtend | 4.8 | R | 4 |
| DELTA GROW 48XF33/STS | XtendFlex | 4.8 | R | 1 |
| DELTA GROW 49E80 | Enlist | 4.9 | R | 0 |
| DELTA GROW 49XF29/STS | XtendFlex | 4.9 | R | 4 |
| DELTA GROW 51E30 | Enlist E3 | 5.3 | R | 5 |
| DELTA GROW 52E80 | Enlist E3 | 5.2 | R | 5 |
| DELTA GROW 52XF22/STS | XtendFlex | 5.2 | R | 4 |
| DELTA GROW 54XF20 | XtendFlex | 5.4 | R | 0 |
| DONMARIO DM45F23 | XtendFlex | 4.5 | R | 0 |
| DONMARIO DM48F53 | XtendFlex | 4.8 | R | 0 |
| Dyna-Gro S41ES80 | Enlist/STS | 4.1 | R | 0 |
| Dyna-Gro S42XF93S | XtendFlex/STS | 4.0 | R | 4 |
| Dyna-Gro S43XS70 | Xtend/STS | 4.3 | R | 3 |
| Dyna-Gro S45ES10 | Enlist/STS | 4.5 | R | 2 |
| Dyna-Gro S45XF02 | XtendFlex | 4.5 | R | 1 |
| Dyna-Gro S46ES91 | Enlist/STS | 4.6 | R | 4 |
| Dyna-Gro S46XF31S | XtendFlex | 4.6 | R | 3 |

Continued

Table 28. 2022 Evaluation of 154 Soybean Cultivars for Reaction to Stem Canker and Frogeye Leaf Spot, Continued.

| Variety Name^a | Herbicide Technology | Maturity | Stem Canker Rating^b | Frogeye Leaf Spot Rating^c |
|---------------------------------|-----------------------------|-----------------|---------------------------------------|---|
| Dyna-Gro S46XS60 | Xtend/STS | 4.6 | R | 4 |
| Dyna-Gro S47XF52 | XtendFlex | 4.7 | R | 1 |
| Dyna-Gro S48XF61S | XtendFlex/STS | 4.8 | R | 3 |
| Dyna-Gro S49EN12 | Enlist E3 | 4.6 | R | 5 |
| Dyna-Gro S49XF82S | XtendFlex/STS | 4.9 | R | 5 |
| Dyna-Gro S54XF62 | XtendFlex | 5.4 | R | 0 |
| Eagle Seed ES4120XF | XtendFlex | 4.1 | R | 5 |
| Eagle Seed ES4875XF | XtendFlex | 4.8 | R | 6 |
| Innotech 4737E3 | Enlist E3 | 4.7 | R | 4 |
| Innotech 4918E3 | Enlist E3 | 4.9 | R | 0 |
| Innotech 5102E3 | Enlist E3 | 5.1 | R | 4 |
| Innotech 5143E3 | Enlist E3 | 5.1 | R | 0 |
| Innvictis MEX44122XF | XtendFlex | 4.4 | R | 0 |
| Innvictis MEX46332XF | XtendFlex | 4.6 | R | 4 |
| Innvictis MEX49992XF | XtendFlex | 4.9 | S | 0 |
| Integra 54660NS | Xtend | 4.6 | R | 3 |
| Integra 54891NS | Xtend | 4.8 | R | 5 |
| Integra 74142NS | XtendFlex | 4.1 | R | 4 |
| Integra 74383N | XtendFlex | 4.3 | R | 4 |
| Integra 74621NS | XtendFlex | 4.6 | R | 3 |
| Integra 74731NS | XtendFlex | 4.7 | R | 5 |
| Integra 74893NS | XtendFlex | 4.8 | R | 0 |
| NK42-T5XF | XtendFlex | 4.2 | R | 5 |
| NK43-V8XF | XtendFlex | 4.3 | R | 0 |
| NK43-Y9XFS | XtendFlex | 4.3 | R | 5 |
| NK44-J4XFS | XtendFlex | 4.4 | R | 3 |
| NK44-Q5E3S | Enlist | 4.4 | R | 1 |
| NK45-P9XF | XtendFlex | 4.5 | R | 0 |
| NK45-V9E3 | Enlist | 4.5 | R | 0 |
| NK47-Z1XF | XtendFlex | 4.7 | R | 0 |
| NK48-H3XFS | XtendFlex | 4.8 | R | 1 |
| NK49-T6E3S | Enlist | 4.9 | R | 0 |
| Pioneer P40A36E | Enlist | 4.0 | R | 0 |
| Pioneer P40A90LX | RR2X Liberty | 4.0 | R | 0 |
| Pioneer P42A84E | Enlist | 4.2 | R | 0 |
| Pioneer P44A21X | RR2X | 4.4 | R | 0 |
| Pioneer P44A91E | Enlist | 4.4 | R | 1 |
| Pioneer P45A40LX | RR2X Liberty | 4.5 | R | 0 |
| Pioneer P45A79E | Enlist | 4.5 | R | 0 |
| Pioneer P46A20LX | RR2X Liberty | 4.6 | R | 0 |
| Pioneer P47A64X | RR2X | 4.7 | R | 1 |
| Pioneer P48A14E | Enlist | 4.8 | R | 2 |
| PL2E472 | Enlist E3 | 4.7 | R | 0 |
| PL2E502 | Enlist E3 | 5.0 | R | 3 |
| Progeny P4200RXS | RXS | 4.2 | R | 1 |

Continued

Table 28. 2022 Evaluation of 154 Soybean Cultivars for Reaction to Stem Canker and Frogeye Leaf Spot, Continued.

| Variety Name^a | Herbicide Technology | Maturity | Stem Canker Rating^b | Frogeye Leaf Spot Rating^c |
|---------------------------------|-----------------------------|-----------------|---------------------------------------|---|
| Progeny P4202XFS | XFS | 4.2 | R | 3 |
| Progeny P4431E3 | Enlist E3 | 4.4 | R | 5 |
| Progeny P4444RXS | RXS | 4.4 | R | 0 |
| Progeny P4505RXS | RXS | 4.5 | R | 1 |
| Progeny P4521XFS | XFS | 4.5 | R | 2 |
| Progeny P4604XFS | XFS | 4.6 | R | 1 |
| Progeny P4691XFS | XFS | 4.6 | R | 5 |
| Progeny P4732XF | XF | 4.7 | R | 3 |
| Progeny P4775E3S | Enlist E3S | 4.7 | R | 5 |
| Progeny P4798XF | XF | 4.7 | R | 3 |
| Progeny P4806XFS | XFS | 4.8 | R | 5 |
| Progeny P4821RX | RX | 4.8 | R | 4 |
| Progeny P4844XFS | XFS | 4.8 | R | 3 |
| Progeny P4932E3 | Enlist E3 | 4.9 | R | 3 |
| Progeny P4951XFS | XFS | 4.9 | R | 4 |
| Progeny P5016RXS | RXS | 5.0 | R | 3 |
| Progeny P5045E3S | Enlist E3S | 5.0 | R | 5 |
| Progeny P5056XFS | XFS | 5.0 | R | 2 |
| Progeny P5150XFS | XFS | 5.1 | R | 4 |
| Progeny P5521E3 | Enlist E3 | 5.5 | R | 0 |
| Progeny P5554RX | RX | 5.4 | R | 0 |
| R17-283F | Conv. | 5.3 | R | 0 |
| R18-13337 | Conv. | 5.0 | S | 3 |
| R18-14147 | Conv. | 4.6 | R | 4 |
| R18-14272 | Conv. | 5.1 | R | 4 |
| R18-14286 | Conv. | 5.4 | R | 1 |
| R18-14502 | Conv. | 4.9 | R | 5 |
| R18-14753 | Conv. | 4.8 | R | 4 |
| R18-3332 | Conv. | 5.2 | R | 1 |
| R18-5798 | Conv. | 4.9 | R | 4 |
| R18C-11737 | Conv. | 4.3 | R | 3 |
| R18C-13253 | Conv. | 4.9 | R | 2 |
| R18C-13665 | Conv. | 4.6 | R | 3 |
| R18C-144 | Conv. | 4.7 | R | 2 |
| R19C-1012 | Conv. | 4.4 | R | 1 |
| R19C-3085 | Conv. | 5.3 | R | 0 |
| R19C-3144 | Conv. | 5.2 | S | 2 |
| R19C-3148 | Conv. | 4.8 | R | 2 |
| R19C-3151 | Conv. | 4.8 | R | 2 |
| R19C-3152 | Conv. | 4.9 | R | 3 |
| R19C-3159 | Conv. | 4.8 | R | 2 |
| R19C-3169 | Conv. | 5.1 | R | 2 |
| R19C-3182 | Conv. | 5.0 | R | 2 |
| R19C-3191 | Conv. | 4.6 | R | 2 |
| R19C-3194 | Conv. | 5.0 | R | 2 |

Continued

Table 28. 2022 Evaluation of 154 Soybean Cultivars for Reaction to Stem Canker and Frogeye Leaf Spot, Continued.

| Variety Name^a | Herbicide | Maturity | Stem Canker Rating^b | Frogeye Leaf |
|---------------------------------|-------------------|-----------------|---------------------------------------|--------------------------------|
| | Technology | | | Spot Rating^c |
| Revere 4415XF | XtendFlex | 4.4 | R | 0 |
| Revere 4526XF | XtendFlex | 4.5 | R | 4 |
| Revere 4606XFS | XtendFlex | 4.6 | R | 4 |
| Revere 4727XF | XtendFlex | 4.7 | R | 3 |
| Revere 4795XS | RR2Xtend/STS | 4.7 | R | 4 |
| Revere 4806XS | Xtend | 4.8 | R | 4 |
| Revere 4826XFS | XtendFlex | 4.8 | R | 4 |
| Revere 4925XF | XtendFlex | 4.9 | R | 4 |
| Revere 5029XF | XtendFlex | 5.0 | R | 3 |
| Revere 5429E3 | Enlist E5 | 5.4 | R | 0 |
| Revere 5614XF | XtendFlex | 5.6 | R | 5 |
| S16-13165C | Conv. | 4.7 | R | 0 |
| S16-14801C | Conv. | 5.0 | R | 0 |
| S16-7922C | Conv. | 4.9 | R | 0 |
| S17-2193C | Conv. | 4.7 | R | 3 |
| USG 7461XFS | XtendFlex | 4.6 | R | 3 |
| USG 7463XFS | XtendFlex | 4.6 | R | 4 |
| USG 7481XF | XtendFlex | 4.8 | R | 0 |
| USG 7493ETS | Enlist | 4.9 | R | 3 |

^a Each cultivar was repeated 3 times arranged in a randomized complete block design.

^b Stem canker field trials were conducted at the University of Arkansas System Division of Agriculture's Rohwer Research Station at Rowher, Ark. Ten plants per plot were inoculated with infested toothpicks, replicated 3 times.

Ratings were based on the greatest level of disease observed using a R = no stem canker found and S = stem canker found.

^c Frogeye leaf spot field trials were conducted in a grower's field near Kerr, Ark. Values represent a visual estimate of the disease severity based on a 0–9 scale whereas 0 = no disease and 9 = severe disease.

This data collected by Michael Emerson (Program Associate), Terry Spurlock (Associate Professor), Travis Faske (Professor/Extension Plant Pathologist), Mandy Tolbert (Program Associate), Brandon Baker (Program Technician), and Rob Hoyle (Program Technician).

Table 29. Soybean Leaf Tissue Chloride Field Ratings and Reaction for Select Varieties and Strains, 2022.

| Variety/Experimental Line | Herbicide Technology | Relative Maturity | Field Rating | Reaction ^a |
|----------------------------------|----------------------|-------------------|--------------|-----------------------|
| Relative Maturity 4.0–4.5 | | | | |
| Osage (Check) | Conv. | 5.0 | 1 | Strong Excluder |
| AG45XF3 | XtendFlex | 4.2 | 3 | Mixed |
| Armor 44-D49 | Xtend | 4.4 | 3 | Mixed |
| Armor 45-F02 | XtendFlex | 4.5 | 2 | Moderate Excluder |
| Axis 4112XFSTSTS | XtendFlex | 4.1 | 3 | Mixed |
| Axis 4522XF | XtendFlex | 4.5 | 5 | Strong Includer |
| DELTA GROW 44XF41 | XtendFlex | 4.4 | 1 | Strong Excluder |
| DELTA GROW 45E33 | Enlist | 4.5 | 1 | Strong Excluder |
| DONMARIO DM45F23 | XtendFlex | 4.5 | 2 | Moderate Excluder |
| Dyna-Gro S42XF93S | XtendFlex | 4.2 | 3 | Mixed |
| Dyna-Gro S41EN72 | Enlist | 4.1 | 3 | Mixed |
| Dyna-Gro S43XS70 | Xtend/STS | 4.3 | 1 | Strong Excluder |
| Dyna-Gro S45ES10 | Enlist/STS | 4.5 | 1 | Strong Excluder |
| Dyna-Gro S45XF02 | XtendFlex | 4.5 | 4 | Moderate Includer |
| Eagle Seed ES4120XF | XtendFlex | 4.1 | 3 | Mixed |
| Innvincit MEX44122XF | XtendFlex | 4.4 | 3 | Mixed |
| Integra 74142NS | XtendFlex | 4.1 | 4 | Moderate Includer |
| Integra 74383N | XtendFlex | 4.3 | 3 | Mixed |
| Revere 4415XF | XtendFlex | 4.4 | 3 | Mixed |
| Revere 4526XF | XtendFlex | 4.5 | 3 | Mixed |
| NK42-T5XF | XtendFlex | 4.2 | 5 | Strong Includer |
| NK43-V8XF | XtendFlex | 4.3 | 2 | Moderate Excluder |
| NK43-Y9XFS | XtendFlex | 4.3 | 4 | Moderate Includer |
| NK44-J4XFS | XtendFlex | 4.4 | 4 | Moderate Includer |
| NK44-Q5E3S | Enlist | 4.4 | 5 | Strong Includer |
| NK45-P9XF | XtendFlex | 4.5 | 1 | Strong Excluder |
| NK45-V9E3 | Enlist | 4.5 | 4 | Moderate Includer |
| Pioneer P40A36E | Enlist | 4 | 1 | Strong Excluder |
| Pioneer P40A90LX | RR2X Liberty | 4 | 1 | Strong Excluder |
| Pioneer P42A84E | Enlist | 4.2 | 3 | Mixed |
| Pioneer P44A21X | RR2X | 4.4 | 1 | Strong Excluder |
| Pioneer P44A91E | Enlist | 4.4 | 1 | Strong Excluder |
| Pioneer P45A40LX | RR2X Liberty | 4.5 | 2 | Moderate Excluder |
| Pioneer P45A79E | Enlist | 4.5 | 1 | Strong Excluder |
| Progeny P4200RXS | RXS | 4.2 | 5 | Strong Includer |
| Progeny P4202XFS | XFS | 4.2 | 4 | Moderate Includer |
| Progeny P4431E3 | Enlist E3 | 4.4 | 2 | Moderate Excluder |
| Progeny P4444RXS | RXS | 4.4 | 4 | Moderate Includer |
| Progeny P4505RXS | RXS | 4.5 | 3 | Mixed |
| Progeny P4521XFS | XFS | 4.5 | 4 | Moderate Includer |
| R18C-11737 | Conv. | 4.3 | 4 | Moderate Includer |
| R19C-1012 | Conv. | 4.4 | 3 | Mixed |

Continued

Table 29. Soybean Leaf Tissue Chloride Field Ratings and Reaction for Select Varieties and Strains, 2022, Continued.

| Variety/Experimental Line | Herbicide Technology | Relative Maturity | Field Rating | Reaction ^a |
|----------------------------------|----------------------|-------------------|--------------|-----------------------|
| Relative Maturity 4.6–4.9 | | | | |
| UA46i20c (Check) | Conv. | 4.6 | 4 | Moderate Includer |
| Osage (Check) | Conv. | 5.0 | 1 | Strong Excluder |
| AG46XF3 | XtendFlex/SR | 4.6 | 1 | Strong Excluder |
| AG47XF3 | XtendFlex/SR | 4.7 | 3 | Mixed |
| AG48XF3 | XtendFlex/SR | 4.8 | 2 | Moderate Excluder |
| AG49XF3 | XtendFlex | 4.9 | 3 | Mixed |
| Armor 46-F13 | XtendFlex | 4.6 | 2 | Moderate Excluder |
| Armor 46-F96 | XtendFlex | 4.6 | 5 | Strong Includer |
| Armor 48-D25 | Xtend | 4.8 | 1 | Strong Excluder |
| Armor 48-F22 | XtendFlex | 4.8 | 5 | Strong Includer |
| Armor 49-F37 | XtendFlex | 4.9 | 3 | Mixed |
| Axis 4613XF | XtendFlex | 4.6 | 4 | Moderate Includer |
| Axis 4641XFS | XtendFlex | 4.6 | 5 | Strong Includer |
| Axis 4813XFS | XtendFlex | 4.8 | 3 | Mixed |
| DELTA GROW 46E10 | Enlist | 4.6 | 1 | Strong Excluder |
| DELTA GROW 46X65/STS | Xtend | 4.6 | 1 | Strong Excluder |
| DELTA GROW 46XF18 | XtendFlex | 4.6 | 2 | Moderate Excluder |
| DELTA GROW 47E20/STS | Enlist E3 | 4.7 | 2 | Moderate Excluder |
| DELTA GROW 47E35/STS | Enlist E3 | 4.7 | 5 | Strong Includer |
| DELTA GROW 48E49/STS | Enlist | 4.8 | 1 | Strong Excluder |
| DELTA GROW 48E59 | Enlist E3 | 4.8 | 1 | Strong Excluder |
| DELTA GROW 48E60 | Enlist | 4.8 | 5 | Strong Includer |
| DELTA GROW 48X45 | Xtend | 4.8 | 2 | Moderate Excluder |
| DELTA GROW 48XF33/STS | XtendFlex/STS | 4.8 | 3 | Mixed |
| DELTA GROW 49E80 | Enlist | 4.9 | 4 | Moderate Includer |
| DELTA GROW 49XF29/STS | XtendFlex | 4.9 | 2 | Moderate Excluder |
| DONMARIO DM48F53 | XtendFlex | 4.8 | 4 | Moderate Includer |
| Dyna-Gro S46ES91 | Enlist/STS | 4.6 | 1 | Strong Excluder |
| Dyna-Gro S46XF31S | XtendFlex | 4.6 | 4 | Moderate Includer |
| Dyna-Gro S46XS60 | Xtend/STS | 4.6 | 3 | Mixed |
| Dyna-Gro S47XF52 | XtendFlex | 4.7 | 5 | Strong Includer |
| Dyna-Gro S47XF23S | XtendFlex | 4.7 | 1 | Strong Excluder |
| Dyna-Gro S49EN12 | Enlist E3 | 4.6 | 4 | Moderate Includer |
| Dyna-Gro S49XF82S | XtendFlex/STS | 4.9 | 4 | Moderate Includer |
| Eagle Seed ES4875XF | XtendFlex | 4.8 | 4 | Moderate Includer |
| Innvictis MEX46332XF | XtendFlex | 4.6 | 1 | Strong Excluder |
| Innvictis MEX49992XF | XtendFlex | 4.9 | 4 | Moderate Includer |
| Integra 54660NS | Xtend | 4.6 | 1 | Strong Excluder |
| Integra 54891NS | Xtend | 4.8 | 5 | Strong Includer |
| Integra 74621NS | XtendFlex | 4.6 | 4 | Moderate Includer |
| Integra 74731NS | XtendFlex | 4.7 | 2 | Moderate Excluder |
| Integra 74893NS | XtendFlex | 4.8 | 1 | Strong Excluder |
| Innotech 4737E3 | Enlist | 4.7 | 2 | Moderate Excluder |
| Innotech 4918E3 | Enlist | 4.9 | 3 | Mixed |
| Revere 4606XFS | XtendFlex/STS | 4.6 | 4 | Moderate Includer |

Continued

Table 29. Soybean Leaf Tissue Chloride Field Ratings and Reaction for Select Varieties and Strains, 2022, Continued.

| Variety/Experimental Line | Herbicide Technology | Relative Maturity | Field Rating | Reaction ^a |
|---|----------------------|-------------------|--------------|-----------------------|
| Relative Maturity 4.6–4.9, continued | | | | |
| Revere 4727XF | XtendFlex | 4.7 | 1 | Strong Excluder |
| Revere 4795XS | RR2Xtend/STS | 4.7 | 1 | Strong Excluder |
| Revere 4806XS | Xtend/STS | 4.8 | 1 | Strong Excluder |
| Revere 4826XFS | XtendFlex/STS | 4.8 | 1 | Strong Excluder |
| Revere 4925XF | XtendFlex | 4.9 | 3 | Mixed |
| NK47-Z1XF | XtendFlex | 4.7 | 1 | Strong Excluder |
| NK48-H3XFS | XtendFlex | 4.8 | 4 | Moderate Includer |
| NK49-T6E3S | Enlist | 4.9 | 1 | Strong Excluder |
| PL2E472 | Enlist E3 | 4.7 | 5 | Strong Includer |
| Pioneer P46A20LX | RR2X Liberty | 4.6 | 4 | Moderate Includer |
| Pioneer P47A64X | RR2X | 4.7 | 2 | Moderate Excluder |
| Pioneer P48A14E | Enlist | 4.8 | 2 | Moderate Excluder |
| Progeny P4604XFS | XFS | 4.6 | 4 | Moderate Includer |
| Progeny P4691XFS | XFS | 4.6 | 1 | Strong Excluder |
| Progeny P4732XF | XF | 4.7 | 4 | Moderate Includer |
| Progeny P4775E3S | Enlist E3S | 4.7 | 1 | Strong Excluder |
| Progeny P4798XF | XF | 4.7 | 3 | Mixed |
| Progeny P4806XFS | XFS | 4.8 | 5 | Strong Includer |
| Progeny P4821RX | RX | 4.8 | 1 | Strong Excluder |
| Progeny P4844XFS | XFS | 4.8 | 3 | Mixed |
| Progeny P4932E3 | Enlist E3 | 4.9 | 3 | Mixed |
| Progeny P4951XFS | XFS | 4.9 | 4 | Moderate Includer |
| R18-14147 | Conv. | 4.6 | 5 | Strong Includer |
| R18-14502 | Conv. | 4.9 | 4 | Moderate Includer |
| R18-14753 | Conv. | 4.8 | 2 | Moderate Excluder |
| R18-5798 | Conv. | 4.9 | 3 | Mixed |
| R18C-13665 | Conv. | 4.6 | 3 | Mixed |
| R18C-144 | Conv. | 4.7 | 2 | Moderate Excluder |
| R18C-13253 | Conv. | 4.9 | 4 | Moderate Includer |
| R19C-3148 | Conv. | 4.8 | 4 | Moderate Includer |
| R19C-3151 | Conv. | 4.8 | 5 | Strong Includer |
| R19C-3152 | Conv. | 4.9 | 4 | Moderate Includer |
| R19C-3159 | Conv. | 4.8 | 5 | Strong Includer |
| R19C-3191 | Conv. | 4.6 | 5 | Strong Includer |
| S16-13165C | Conv. | 4.7 | 5 | Strong Includer |
| S16-7922C | Conv. | 4.9 | 1 | Strong Excluder |
| S17-2193C | Conv. | 4.7 | 4 | Moderate Includer |
| USG 7461XFS | XtendFlex | 4.6 | 1 | Strong Excluder |
| USG 7463XFS | XtendFlex | 4.6 | 4 | Moderate Includer |
| USG 7481XF | XtendFlex | 4.8 | 2 | Moderate Excluder |
| USG 7493ETS | Enlist | 4.9 | 2 | Moderate Excluder |

Continued

Table 29. Soybean Leaf Tissue Chloride Field Ratings and Reaction for Select Varieties and Strains, 2022, Continued.

| Variety/Experimental Line | Herbicide Technology | Relative Maturity | Field Rating | Reaction ^a |
|----------------------------------|----------------------|-------------------|--------------|-----------------------|
| Relative Maturity 5.0–5.9 | | | | |
| Osage (Check) | Conv. | 5.0 | 1 | Strong Excluder |
| Armor 51-F88 | XtendFlex | 5.1 | 5 | Strong Includer |
| DELTA GROW 52E80 | Enlist E3 | 5.2 | 4 | Moderate Includer |
| DELTA GROW 52XF22/STS | XtendFlex | 5.2 | 3 | Mixed |
| DELTA GROW 51E30 | Enlist | 5.1 | 1 | Strong Excluder |
| DELTA GROW 54XF20 | XtendFlex | 5.4 | 2 | Moderate Excluder |
| Dyna-Gro S54XF62 | XtendFlex | 5.4 | 1 | Strong Excluder |
| Innotech 5360E3 | Enlist | 5.3 | 4 | Moderate Includer |
| Innotech 5143E3 | Enlist E3 | 5.1 | 1 | Strong Excluder |
| Revere 5029XF | XtendFlex | 5.0 | 3 | Mixed |
| Revere 5614XF | XtendFlex | 5.6 | 4 | Moderate Includer |
| Revere 5429E3 | Enlist E5 | 5.4 | 4 | Moderate Includer |
| PL2E502 | Enlist E3 | 5.0 | 3 | Mixed |
| Progeny P5016RXS | RXS | 5.0 | 3 | Mixed |
| Progeny P5045E3S | Enlist E3S | 5.0 | 5 | Strong Includer |
| Progeny P5056XFS | XFS | 5.0 | 3 | Mixed |
| Progeny P5150XFS | XFS | 5.1 | 3 | Mixed |
| Progeny P5521E3 | Enlist E3 | 5.5 | 4 | Moderate Includer |
| Progeny P5554RX | RX | 5.4 | 2 | Moderate Excluder |
| R17-283F | Conv. | 5.3 | 3 | Mixed |
| R18-13337 | Conv. | 5.0 | 1 | Strong Excluder |
| R18-14272 | Conv. | 5.1 | 2 | Moderate Excluder |
| R18-14286 | Conv. | 5.4 | 3 | Mixed |
| R18-3332 | Conv. | 5.2 | 4 | Moderate Includer |
| R19C-3085 | Conv. | 5.3 | 3 | Mixed |
| R19C-3144 | Conv. | 5.2 | 4 | Moderate Includer |
| R19C-3169 | Conv. | 5.1 | 3 | Mixed |
| R19C-3182 | Conv. | 5.0 | 3 | Mixed |
| R19C-3194 | Conv. | 5.0 | 3 | Mixed |
| S16-14801C | Conv. | 5.0 | 3 | Mixed |

^aChloride sensitivity in soybean is categorized by the plant's genetic and metabolic ability to deal with elevated concentrations of chloride in the soil profile. Excluder soybean varieties have multiple mechanisms that allow them restrict chloride accumulation in the aboveground plant tissues; whereas, Includer varieties accumulate chloride indiscriminately. Varieties with Mixed ratings have populations with varying ratios of Includers and Excluders that result in a wide range of chloride accumulation in the tissues and a wide range of reactions to high levels of chloride. This data collected by Trent Roberts (Associate Professor of Soil Fertility/Soil Testing) and Alden Smartt (Program Associate).

**Early Planted Tests, Participants and Entries
2022 Soybean Performance Tests**

| Company/ Institute | Variety/Experimental Line | Relative Maturity | Herbicide Technology | Seed Treatment |
|--|----------------------------------|--------------------------|-----------------------------|----------------------------|
| Bayer CropScience 2 TW Alexander Dr. Research Triangle Park, NC 27709 | AG45XF3 | 4.2 | XtendFlex | F/I/Ilevo |
| | AG46XF3 | 4.6 | XtendFlex/SR | F/I/Ilevo |
| | AG47XF3 | 4.7 | XtendFlex/SR | F/I/Ilevo |
| | AG48XF3 | 4.8 | XtendFlex/SR | F/I/Ilevo |
| | AG49XF3 | 4.9 | XtendFlex | F/I/Ilevo |
| Nutrien Ag Solutions 3005 Rocky Mountain Ave. Loveland, CO 80538 | Dyna-Gro S42XF93S | 4.2 | XtendFlex | Equity VIP Salfot/Vayantis |
| | Dyna-Gro S43XS70 | 4.3 | Xtend/STS | Equity VIP Salfot/Vayantis |
| Progeny Ag Products 1529 Hwy 193 Wynne, AR 72396 | Progeny P4200RXS | 4.2 | RXS | ProServo/S |
| | Progeny P4202XFS | 4.2 | XFS | ProServo/S |
| | Progeny P4444RXS | 4.4 | RXS | ProServo/S |
| | Progeny P4505RXS | 4.5 | RXS | ProServo/S |
| | Progeny P4521XFS | 4.5 | XFS | ProServo/S |
| | Progeny P4604XFS | 4.6 | XFS | ProServo/S |
| | Progeny P4691XFS | 4.6 | XFS | ProServo/S |
| | Progeny P4732XF | 4.7 | XF | ProServo/S |
| | Progeny P4775E3S | 4.7 | Enlist E3S | ProServo/S |
| | Progeny P4798XF | 4.7 | XF | ProServo/S |
| | Progeny P4806XFS | 4.8 | XFS | ProServo/S |
| | Progeny P4821RX | 4.8 | RX | ProServo/S |
| Arkansas Agricultural Experiment Station, University of Arkansas System Division of Agriculture 115 Plant Science Building Fayetteville, AR 72701 | Progeny P4951XFS | 4.9 | XFS | ProServo/S |
| | R18-14147 | 4.6 | Conv. | Seed Shield Max |
| | R18C-11737 | 4.3 | Conv. | Seed Shield Max |
| | R19C-1012 | 4.4 | Conv. | Seed Shield Max |

**Full-Season Tests, Participants and Entries
2022 Soybean Performance Tests**

| Company/ Institute | Variety/Experimental Line | Relative Maturity | Herbicide Technology | Seed Treatment |
|---|----------------------------------|--------------------------|-----------------------------|-------------------------|
| Bayer CropScience 2 TW Alexander Dr. Research Triangle Park, NC 27709 | AG45XF3 | 4.2 | XtendFlex | I/F |
| | AG46XF3 | 4.6 | XtendFlex/SR | I/F |
| | AG47XF3 | 4.7 | XtendFlex/SR | I/F |
| | AG48XF3 | 4.8 | XtendFlex/SR | I/F |
| | AG49XF3 | 4.9 | XtendFlex | I/F |
| Delta Grow Seed 220 NW 2nd England, AR 72046 | DELTA GROW 44XF41 | 4.4 | XtendFlex | Cruiser Maxx |
| | DELTA GROW 45E33 | 4.5 | Enlist | Cruiser Maxx |
| | DELTA GROW 46E10 | 4.6 | Enlist | Cruiser Maxx |
| | DELTA GROW 46X65/STS | 4.6 | Xtend | Cruiser Maxx |
| | DELTA GROW 46XF18 | 4.6 | XtendFlex | Cruiser Maxx |
| | DELTA GROW 47E20/STS | 4.7 | Enlist E3 | Cruiser Maxx |
| | DELTA GROW 47E35/STS | 4.7 | Enlist E3 | Cruiser Maxx |
| | DELTA GROW 48E49/STS | 4.8 | Enlist | Cruiser Maxx |
| | DELTA GROW 48E59 | 4.8 | Enlist E3 | Cruiser Maxx |
| | DELTA GROW 48E60 | 4.8 | Enlist | Cruiser Maxx |
| | DELTA GROW 48X45 | 4.8 | Xtend | Cruiser Maxx |
| | DELTA GROW 48XF33/STS | 4.8 | XtendFlex/STS | Cruiser Maxx |
| | DELTA GROW 49E80 | 4.9 | Enlist | Cruiser Maxx |
| | DELTA GROW 49XF29/STS | 4.9 | XtendFlex | Cruiser Maxx |
| | DELTA GROW 51E30 | 5.1 | Enlist | Cruiser Maxx |
| | DELTA GROW 52E80 | 5.2 | Enlist E3 | Cruiser Maxx |
| | DELTA GROW 52XF22/STS | 5.2 | XtendFlex | Cruiser Maxx |
| | DELTA GROW 54XF20 | 5.4 | XtendFlex | Cruiser Maxx |
| Eagle Seed Company P.O. Box 308 Weiner, AR 72479 | Eagle Seed ES4120XF | 4.1 | XtendFlex | |
| | Eagle Seed ES4875XF | 4.8 | XtendFlex | |
| | | | | |
| Farmers Business Network 3818 Juniper Place Unit B Columbia, MO, 65201 | PL2E472 | 4.7 | Enlist E3 | FBN Custom Blend |
| | PL2E502 | 5.0 | Enlist E3 | FBN Custom Blend |
| | | | | |
| GDM Seeds Inc. 4003 Commercial Center Dr. Marion, AR 72364 | DONMARIO DM45F23 | 4.5 | XtendFlex | Cruiser Maxx Vibrance |
| | DONMARIO DM48F53 | 4.8 | XtendFlex | Cruiser Maxx Vibrance |
| | | | | |
| InnVictis Seed Solutions 1880 Fall River Drive Loveland, CO 80538 | InnVictis MEX44122XF | 4.4 | XtendFlex | Insecticide / fungicide |
| | InnVictis MEX46332XF | 4.6 | XtendFlex | Insecticide / fungicide |
| | InnVictis MEX49992XF | 4.9 | XtendFlex | Insecticide / fungicide |

Continued

**Full-Season Tests, Participants and Entries
2022 Soybean Performance Tests, Continued**

| Company/ Institute | Variety/Experimental Line | Relative Maturity | Herbicide Technology | Seed Treatment |
|---|----------------------------------|--------------------------|-----------------------------|-------------------------------|
| Revere Seed Co. 802 Rozelle St. Memphis, TN 38104 | Innotech 4737E3 | 4.7 | Enlist | Radius Premium |
| | Innotech 4918E3 | 4.9 | Enlist | Radius Premium |
| | Innotech 5143E3 | 5.1 | Enlist E3 | Radius Premium |
| | Innotech 5360E3 | 5.3 | Enlist | Radius Premium |
| | Revere 4415XF | 4.4 | XtendFlex | Radius Premium |
| | Revere 4526XFS | 4.5 | XtendFlex | Radius Premium |
| | Revere 4606XFS | 4.6 | XtendFlex/STS | Radius Premium |
| | Revere 4727XF | 4.7 | XtendFlex | Radius Premium |
| | Revere 4795XS | 4.7 | RR2Xtend/STS | Radius Premium |
| | Revere 4806XS | 4.8 | Xtend/STS | Radius Premium |
| | Revere 4826XF | 4.8 | XtendFlex/STS | Radius Premium |
| | Revere 4925XFS | 4.9 | XtendFlex | Radius Premium |
| | Revere 5029XF | 5.0 | XtendFlex | Radius Premium |
| | Revere 5429E3 | 5.4 | Enlist E5 | Radius Premium |
| | Revere 5614XF | 5.6 | XtendFlex | Radius Premium |
| Mayberry Seed Co. 22985 State Hwy. D Essex, MO 63846 | Axis 4112XFS | 4.1 | XtendFlex | Revolve |
| | Axis 4522XF | 4.5 | XtendFlex | Revolve |
| | Axis 4613XF | 4.6 | XtendFlex | Revolve |
| | Axis 4641XFS | 4.6 | XtendFlex | Revolve |
| | Axis 4813XFS | 4.8 | XtendFlex | Revolve |
| Nutrien Ag Solutions 3005 Rocky Mountain Ave. Loveland, CO 80538 | Dyna-Gro S41EN72 | 4.1 | Enlist | Equity VIP Salflo w/ Vayantis |
| | Dyna-Gro S42XF93S | 4.2 | XtendFlex | Equity VIP Salflo w/ Vayantis |
| | Dyna-Gro S43XS70 | 4.3 | Xtend/STS | Equity VIP Salflo w/ Vayantis |
| | Dyna-Gro S45ES10 | 4.5 | Enlist/STS | Equity VIP Salflo w/ Vayantis |
| | Dyna-Gro S45XF02 | 4.5 | XtendFlex | Equity VIP Salflo w/ Vayantis |
| | Dyna-Gro S46ES91 | 4.6 | Enlist/STS | Equity VIP Salflo w/ Vayantis |
| | Dyna-Gro S46XF31S | 4.6 | XtendFlex | Equity VIP Salflo w/ Vayantis |
| | Dyna-Gro S46XS60 | 4.6 | Xtend/STS | Equity VIP Salflo w/ Vayantis |
| | Dyna-Gro S47XF23S | 4.7 | XtendFlex | Equity VIP Salflo w/ Vayantis |
| | Dyna-Gro S47XF52 | 4.7 | XtendFlex | Equity VIP Salflo w/ Vayantis |
| | Dyna-Gro S49EN12 | 4.6 | Enlist E3 | Equity VIP Salflo w/ Vayantis |
| | Dyna-Gro S49XF82S | 4.9 | XtendFlex/STS | Equity VIP Salflo w/ Vayantis |
| | Dyna-Gro S54XF62 | 5.4 | XtendFlex | Equity VIP Salflo w/ Vayantis |
| | | | | |
| Pioneer Hi-Bred Int. 7300 NW 62nd Ave. Johnston, IA 50131 | Pioneer P40A36E | 4.0 | Enlist | FST/IST |
| | Pioneer P40A90LX | 4.0 | RR2X Liberty | FST/IST |
| | Pioneer P42A84E | 4.2 | Enlist | FST/IST |
| | Pioneer P44A21X | 4.4 | RR2X | FST/IST |
| | Pioneer P44A91E | 4.4 | Enlist | FST/IST |
| | Pioneer P45A40LX | 4.5 | RR2X Liberty | FST/IST |
| | Pioneer P45A79E | 4.5 | Enlist | FST/IST |
| | Pioneer P46A20LX | 4.6 | RR2X Liberty | FST/IST |
| | Pioneer P47A64X | 4.7 | RR2X | FST/IST |
| | Pioneer P48A14E | 4.8 | Enlist | FST/IST |

Continued

**Full-Season Tests, Participants and Entries
2022 Soybean Performance Tests, Continued**

| Company/ Institute | Variety/Experimental Line | Relative Maturity | Herbicide Technology | Seed Treatment |
|--|----------------------------------|--------------------------|-----------------------------|---|
| Progeny Ag Products 1529 Hwy 193 Wynne, AR 72396 | Progeny P4200RXS | 4.2 | RXS | ProServo/S |
| | Progeny P4202XFS | 4.2 | XFS | ProServo/S |
| | Progeny P4431E3 | 4.4 | Enlist E3 | ProServo/S |
| | Progeny P4444RXS | 4.4 | RXS | ProServo/S |
| | Progeny P4505RXS | 4.5 | RXS | ProServo/S |
| | Progeny P4521XFS | 4.5 | XFS | ProServo/S |
| | Progeny P4604XFS | 4.6 | XFS | ProServo/S |
| | Progeny P4691XFS | 4.6 | XFS | ProServo/S |
| | Progeny P4732XF | 4.7 | XF | ProServo/S |
| | Progeny P4775E3S | 4.7 | Enlist E3S | ProServo/S |
| | Progeny P4798XF | 4.7 | XF | ProServo/S |
| | Progeny P4806XFS | 4.8 | XFS | ProServo/S |
| | Progeny P4821RX | 4.8 | RX | ProServo/S |
| | Progeny P4844XFS | 4.8 | XFS | ProServo/S |
| | Progeny P4932E | 4.9 | Enlist E3 | ProServo/S |
| | Progeny P4951XFS | 4.9 | XFS | ProServo/S |
| | Progeny P5016RXS | 5.0 | RXS | ProServo/S |
| | Progeny P5045E3S | 5.0 | Enlist E3S | ProServo/S |
| | Progeny P5056XFS | 5.0 | XFS | ProServo/S |
| | Progeny P5150XFS | 5.1 | XFS | ProServo/S |
| | Progeny P5521E3 | 5.5 | Enlist E3 | ProServo/S |
| | Progeny P5554RX | 5.4 | RX | ProServo/S |
| Syngenta Crop Protection 3411 Silverside Rd, Suite. 100 Shipley Bldg. Wilmington, DE 19810 | NK42-T5XF | 4.2 | XtendFlex | CruiserMaxx Vibrance Saltro |
| | NK43-V8XF | 4.3 | XtendFlex | CruiserMaxx Vibrance Saltro |
| | NK43-Y9XFS | 4.3 | XtendFlex | CruiserMaxx Vibrance Saltro |
| | NK44-J4XFS | 4.4 | XtendFlex | CruiserMaxx Vibrance Saltro |
| | NK44-Q5E3S | 4.4 | Enlist | CruiserMaxx Vibrance Saltro |
| | NK45-P9XF | 4.5 | XtendFlex | CruiserMaxx Vibrance Saltro |
| | NK45-V9E3 | 4.5 | Enlist | CruiserMaxx Vibrance Saltro |
| | NK47-Z1XF | 4.7 | XtendFlex | CruiserMaxx Vibrance Saltro |
| | NK48-H3XFS | 4.8 | XtendFlex | CruiserMaxx Vibrance Saltro |
| | NK49-T6E3S | 4.9 | Enlist | CruiserMaxx Vibrance Saltro |
| | | | | |
| UniSouth Genetics, Inc. 3205-C HWY 46 S Dickson, TN 37055 | USG 7461XFS | 4.6 | XtendFlex | Carboxin, imidicloprid, metalaxyl, ipconazole |
| | USG 7463XFS | 4.6 | XtendFlex | Carboxin, imidicloprid, metalaxyl, ipconazole |
| | USG 7481XF | 4.8 | XtendFlex | Carboxin, imidicloprid, metalaxyl, ipconazole |
| | USG 7493ETS | 4.9 | Enlist | Carboxin, imidicloprid, metalaxyl, ipconazole |
| Arkansas Agricultural Experiment Station, University of Arkansas System Division of Agriculture 115 Plant Science Building Fayetteville, AR 72701 | R17-283F | 5.3 | Conv. | Seed Shield Max |
| | R18-13337 | 5.0 | Conv. | Seed Shield Max |
| | R18-14147 | 4.6 | Conv. | Seed Shield Max |
| | R18-14272 | 5.1 | Conv. | Seed Shield Max |
| | R18-14286 | 5.4 | Conv. | Seed Shield Max |
| | R18-14502 | 4.9 | Conv. | Seed Shield Max |
| | R18-14753 | 4.8 | Conv. | Seed Shield Max |
| | R18-3332 | 5.2 | Conv. | Seed Shield Max |
| | R18-5798 | 4.9 | Conv. | Seed Shield Max |

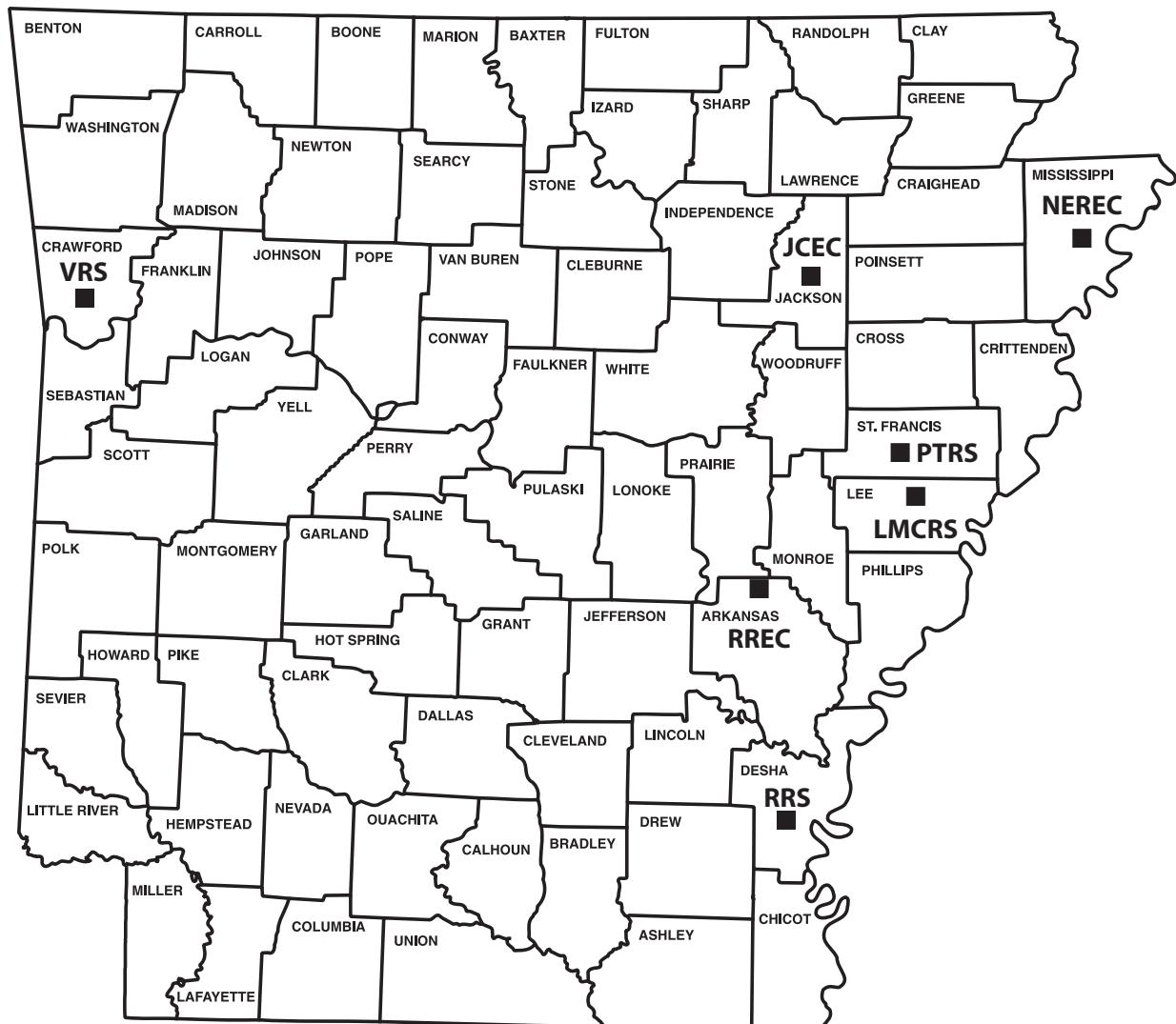
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**Full-Season Tests, Participants and Entries
2022 Soybean Performance Tests, Continued**

| Company/ Institute | Variety/Experimental Line | Relative Maturity | Herbicide Technology | Seed Treatment |
|--|----------------------------------|--------------------------|-----------------------------|-----------------------|
| Arkansas Agricultural Experiment Station, University of Arkansas System Division of Agriculture | R18C-11737 | 4.3 | Conv. | Seed Shield Max |
| Continued | R18C-13253 | 4.9 | Conv. | Seed Shield Max |
| 115 Plant Science Building Fayetteville, AR 72701 | R18C-13665 | 4.6 | Conv. | Seed Shield Max |
| | R18C-144 | 4.7 | Conv. | Seed Shield Max |
| | R19C-1012 | 4.4 | Conv. | Seed Shield Max |
| | R19C-3085 | 5.3 | Conv. | Seed Shield Max |
| | R19C-3144 | 5.2 | Conv. | Seed Shield Max |
| | R19C-3148 | 4.8 | Conv. | Seed Shield Max |
| | R19C-3151 | 4.8 | Conv. | Seed Shield Max |
| | R19C-3152 | 4.9 | Conv. | Seed Shield Max |
| | R19C-3159 | 4.8 | Conv. | Seed Shield Max |
| | R19C-3169 | 5.1 | Conv. | Seed Shield Max |
| | R19C-3182 | 5.0 | Conv. | Seed Shield Max |
| | R19C-3191 | 4.6 | Conv. | Seed Shield Max |
| | R19C-3194 | 5.0 | Conv. | Seed Shield Max |
| University of Missouri | S16-13165C | 4.7 | Conv. | Warden CX |
| 147 State Hwy T Portageville, MO 63873 | S16-14801C | 5.0 | Conv. | Warden CX |
| | S16-7922C | 4.9 | Conv. | Warden CX |
| | S17-2193C | 4.7 | Conv. | Warden CX |
| Wilbur-Ellis | Integra 54660NS | 4.6 | Xtend | Acceleron |
| 2219 229th Pl Ames, IA 50014 | Integra 54891NS | 4.8 | Xtend | Acceleron |
| | Integra 74142NS | 4.1 | XtendFlex | Acceleron |
| | Integra 74383N | 4.3 | XtendFlex | Acceleron |
| | Integra 74621NS | 4.6 | XtendFlex | Acceleron |
| | Integra 74731NS | 4.7 | XtendFlex | Acceleron |
| | Integra 74893NS | 4.8 | XtendFlex | Acceleron |
| WinField United | Armor 44-D49 | 4.4 | Xtend | Warden CX |
| 2532 Alexander Dr. Jonesboro, AR 72401 | Armor 45-F02 | 4.5 | XtendFlex | Warden CX |
| | Armor 46-F13 | 4.6 | XtendFlex | Warden CX |
| | Armor 46-F96 | 4.6 | XtendFlex | Warden CX |
| | Armor 48-D25 | 4.8 | Xtend | Warden CX |
| | Armor 48-F22 | 4.8 | XtendFlex | Warden CX |
| | Armor 49-F37 | 4.9 | XtendFlex | Warden CX |
| | Armor 51-F88 | 5.1 | XtendFlex | Warden CX |

Continued

SOYBEAN TEST LOCATIONS



- JCEC** - Jackson County Extension Center, Newport, Arkansas
- LMCRS** - Lon Mann Cotton Research Station, Marianna
- 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
- VRS** - Vegetable Research Station, Kibler, Arkansas

