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Arkansas Soybean Performance Tests 2022

J. F. Carlin

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Arkansas

Soybean Performance Tests 2022



J.F. Carlin • R.B. Mulloy • R.D. Bond

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ARKANSAS AGRICULTURAL EXPERIMENT STATION

June 2023

Research Series 693

This publication is available on the internet at: <https://aaes.uada.edu/communications/publications/> and at <https://aaes.uada.edu/variety-testing/>

Technical editing and cover design by Gail Halleck.

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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ISSN: 1941-1642 CODEN: AKAMA6

Arkansas Soybean Performance Tests

2022

J.F. Carlin
R.B. Mulloy
R.D. Bond



**Arkansas Agricultural Experiment Station
University of Arkansas System
Division of Agriculture
Fayetteville, Arkansas 72704**

Acknowledgments

This research was funded in part by participating companies, the University of Arkansas System Division of Agriculture's Arkansas Agricultural Experiment Station, and the Arkansas Soybean Promotion Board.

The assistance of the following individuals in conducting these experiments is gratefully acknowledged:

Arkansas Agricultural Experiment Station, Fayetteville

Nathan McKinney, Assistant Director

Nathan Slaton, Assistant Director

Arkansas Cooperative Extension Service

Jeremy Ross, Professor and Soybean Extension Agronomist

Randy Miller, Program Associate

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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.

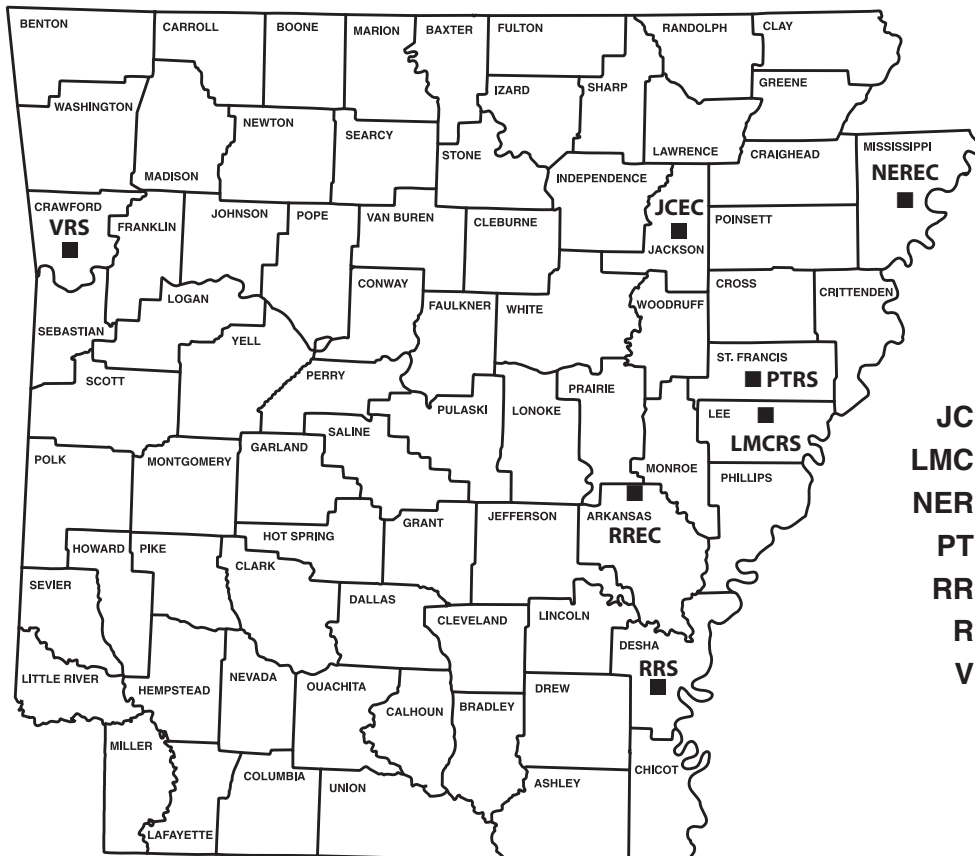
¹ Use of products and trade names in this report does not constitute a guarantee or warranty of the products named and does not signify that those products are approved to the exclusion of comparable products.

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	10/19
VRS, Alma, Ark.	Traditional Planting	Irrigated	Twin 36	Dardanelle, silt loam	5/31	10/20	10/21	10/20
LMCRS, Marianna, Ark.	Traditional Planting	Irrigated	Single 38	Loring, silt loam	5/10	10/6	10/19	10/19
JCEC, Newport, Ark.	Traditional Planting	Irrigated	Single 30	Dexter, silt loam/Bosket, fine sandy loam	5/31	10/11	10/14	10/21
PTRS, Colt, Ark.	Traditional Planting	Irrigated	Single 30	Calhoun, silt loam	5/11	10/1	10/7	10/11
RRS, Rohwer, Ark.	Traditional Planting	Irrigated	Single 38	Sharkey, Desha silt loam	5/3	10/6	10/7	10/12
RREC, Stuttgart, Ark.	Traditional Planting	Irrigated	Single 30	Dewitt, silt loam	5/20	10/13	10/18	10/18
RREC, Stuttgart, Ark.	Traditional Planting	Dryland	Single 30	Dewitt, silt loam	5/20	10/5	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.

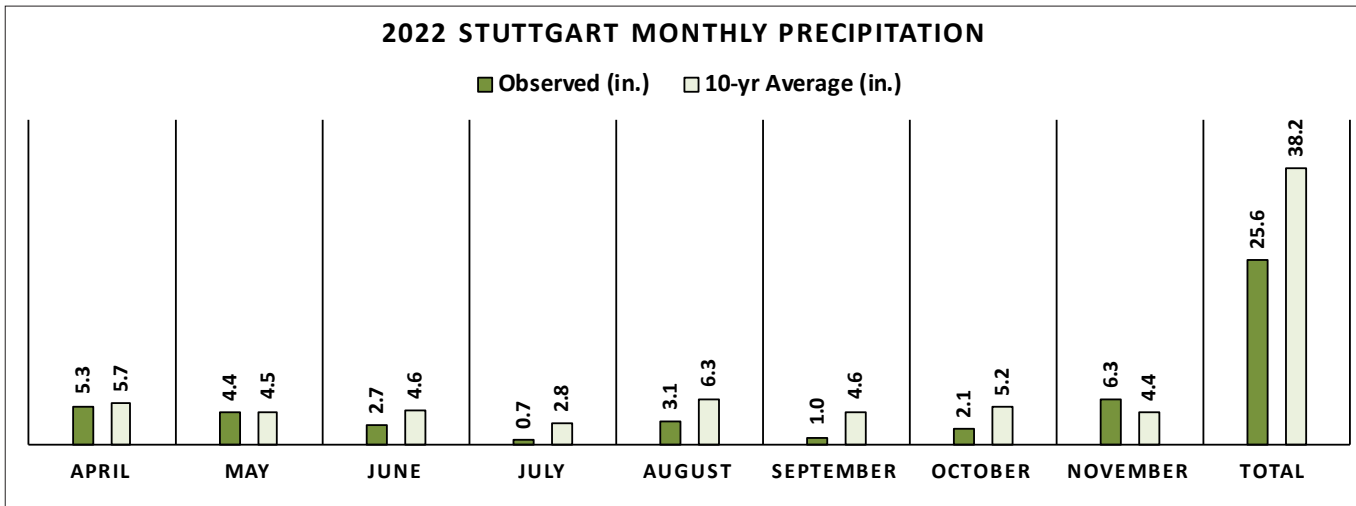
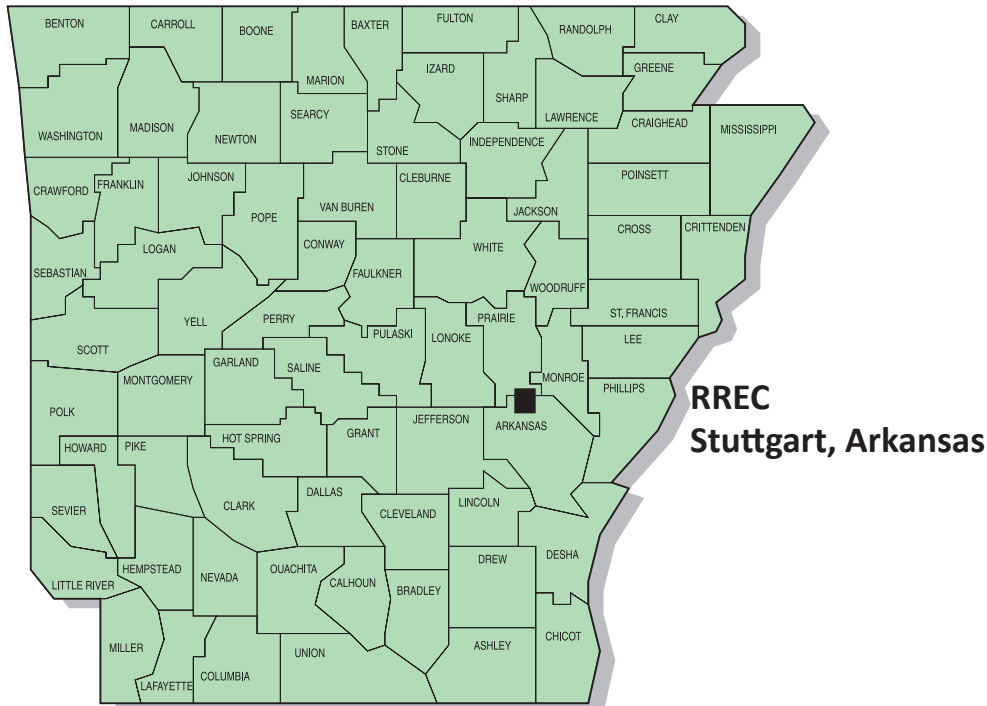
Table 4. Preliminary Yields of Xtend Early Planted Maturity Group IV Soybean Cultivars in Arkansas Performance Tests, Stuttgart, Ark., 2022.^a

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	85.8
		LSD	7.4
		C.V.	6.3

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

Stuttgart: Rice Research and Extension Center (RREC)

Early Planted Irrigated Soybean Varieties and Strains, 2022



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	May 11
Select [®] 1 pt/ac	June 15
Flexstar [®] 1 pt/ac + Storm [®] 8 oz/ac	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								Stuttgart	
			Keiser	Kibler	Marianna	Newport	Pine Tree	Rohwer	Stuttgart	Irrigated Mean	Non- Irrigated
			(bu./ac)								
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
Innvictis 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	Stuttgart Non- Irrigated
			Keiser	Kibler	Marianna	Newport	Pine Tree	Rohwer	Stuttgart	Mean	
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	(bu./ac)							Stuttgart Non- Irrigated
			Keiser	Kibler	Marianna	Newport	Pine Tree	Rohwer	Stuttgart	
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
			Keiser	Kibler	Marianna	Newport	Pine Tree	Rohwer	Stuttgart	Non- Irrigated
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	Stuttgart
			Keiser	Kibler	Marianna	Newport	Pine Tree	Rohwer	Stuttgart	Mean	Non- Irrigated
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
Innvictis MEX46332XF	XtendFlex	4.6	66.4	78.0	71.2	83.0	66.6	63.1	81.8	72.9	24.8
Innvictis 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								Irrigated	Stuttgart
			Keiser	Kibler	Marianna	Newport	Pine Tree	Rohwer	Stuttgart	Mean	Non- Irrigated
			----- (bu./ac) -----								
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								Irrigated	Stuttgart
			Keiser	Kibler	Marianna	Newport	Pine Tree	Rohwer	Stuttgart	Mean	Non- Irrigated
			----- (bu./ac) -----								
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 Non- Irrigated
			Keiser	Kibler	Marianna	Newport	Pine Tree	Rohwer	Stuttgart	
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 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	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	
Progeny P4604XFS	XFS	4.6	63.4	74.6	66.6	84.4	66.1	72.3	61.1	27.3
Progeny P4691XFS	XFS	4.6	70.6	75.5	76.2	85.4	66.5	76.6	64.3	25.3
Progeny P4732XF	XF	4.7	69.2	78.4	70.1	86.2	65.5	68.9	44.9	25.9
Progeny P4798XF	XF	4.7	65.2	78.7	66.3	81.6	67.1	56.9	70.4	28.6
Progeny P4806XFS	XFS	4.8	66.3	74.4	71.9	82.7	62.3	50.9	77.3	28.7
Progeny P4821RX	RX	4.8	63.7	71.9	71.7	85.6	67.7	75.6	83.4	30.6
Progeny P4844XFS	XFS	4.8	62.6	66.9	70.7	88.3	63.6	59.0	81.4	26.2
Progeny P4951XFS	XFS	4.9	62.8	70.7	64.3	81.7	64.5	65.5	75.3	25.2
Revere 4606XFS	XtendFlex/STS	4.6	62.3	77.2	67.0	81.1	67.8	73.8	74.9	29.9
Revere 4727XF	XtendFlex	4.7	64.7	73.2	71.6	86.5	69.8	69.2	83.5	27.9
Revere 4795XS	RR2Xtend/STS	4.7	65.5	79.9	76.1	88.9	66.7	78.5	73.7	30.1
Revere 4806XS	Xtend/STS	4.8	66.6	76.0	72.0	79.7	68.1	77.5	73.0	28.7
Revere 4826XFS	XtendFlex/STS	4.8	69.5	80.8	73.5	82.3	65.0	80.8	78.4	28.5
Revere 4925XF	XtendFlex	4.9	63.3	79.7	65.9	84.9	67.3	67.3	68.5	31.0
USG 7461XFS	XtendFlex	4.6	62.2	74.4	70.4	76.7	64.0	65.8	77.0	29.6
USG 7463XFS	XtendFlex	4.6	69.7	74.1	71.5	85.8	66.4	68.6	48.1	25.7
USG 7481XF	XtendFlex	4.8	66.6	63.0	72.4	78.9	60.9	78.0	65.5	25.0
		GRAND MEAN	65.4	75.4	71.1	85.2	65.8	70.2	71.3	28.2
		LSD (5%)	6.0	8.9	6.5	7.2	5.8	10.5	10.7	3.3
		C.V.	6.8	8.7	6.8	6.3	6.6	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	(bu./ac)							Stuttgart	
			Keiser	Kibler	Marianna	Newport	Pine Tree	Rohwer	Stuttgart	Non-Irrigated	
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	45.7	66.4	52.1	78.5	58.2	59.7	69.3	27.2	
		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.

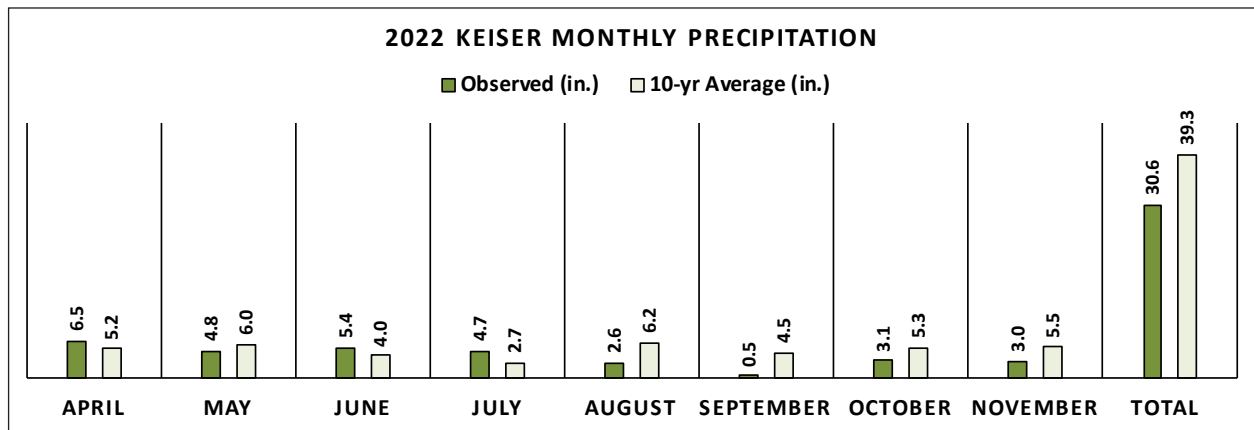
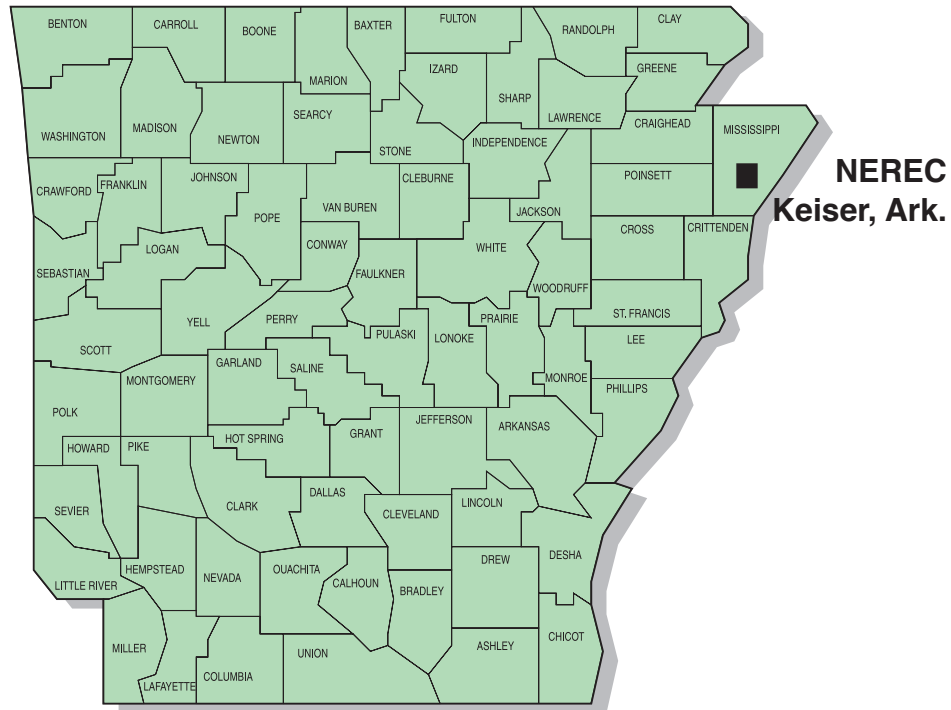
Table 14. Yields of Xtend Maturity Group V (RM 5.0–5.9) Soybean Varieties and Strains in Arkansas Performance tests, 2022.^a

Variety/ Experimental Line	Herbicide Technology	Relative Maturity	(bu./ac)							Stuttgart
			Keiser	Kibler	Marianna	Newport	Pine Tree	Rohwer	Stuttgart	Non-Irrigated
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
Sharkey, silty clay
Previous Crop
Corn
Row Spacing
38 in.
Planting Date
May 18
Irrigation Dates
June 21; July 12,16

Harvest	Date
Relative Maturity (RM) (4.0-4.5), RM (4.6-4.9), RM (5.0-5.9)	Oct. 7, 19, 19
Herbicide Application(s)	Date
Valor® 2 oz/ac, Zidua® 2 oz/ac, Gramoxone® 32 oz/ac	May 19
Asphate® 1/2 lb/ac, Warrior® 1 oz/ac	Aug. 10
Prefix® 1 qt/ac	June 20
Trial Comments: Non-Xtend soybean varieties repeatedly showed symptoms consistent with injury attributed to off-target movement of dicamba.	

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 Date	Moisture (%)	Plant Height (in.)	Lodging ^d
		Average ^b (bu./ac)					
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	3-Year	Maturity Date	Moisture	Plant Height	Lodging ^d
		Average ^b	Average ^c				
		----- (bu./ac) -----			(%)	(in.)	
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
Innvictis 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	Lodging ^d
		Average ^b	Average ^c				
		------(bu./ac)-----			(%)	(in.)	
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
Innictis 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	3-Year Average ^c	Maturity Date	Moisture	Plant Height	Lodging ^d
	------(bu./ac)-----				(%)	(in.)	
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 Average ^b	3-Year Average ^c	Maturity Date	Moisture	Plant Height	Lodging ^d
		------(bu./ac)-----			(%)	(in.)	
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.

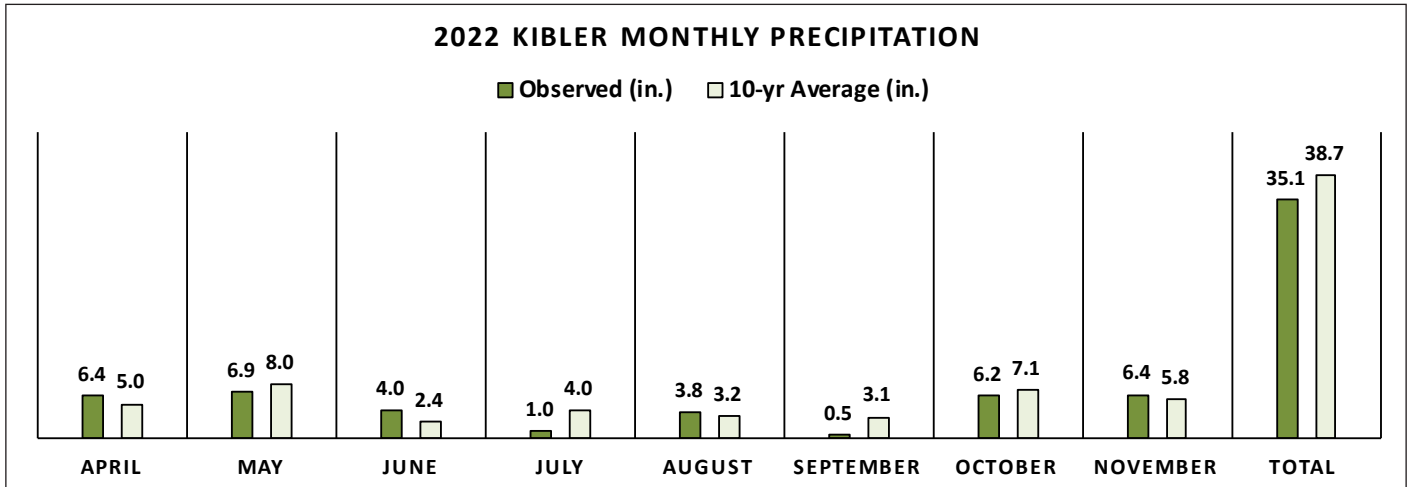
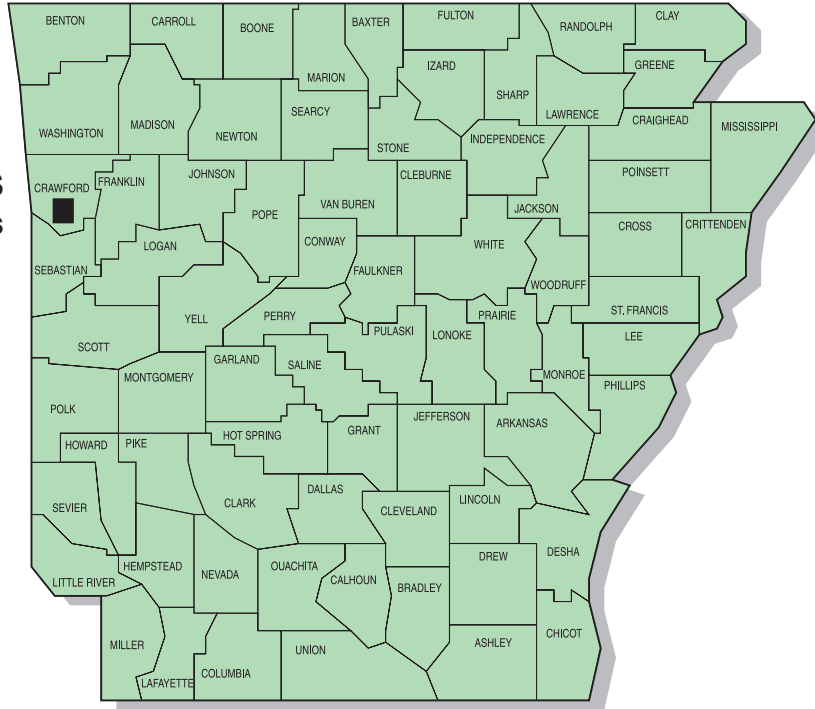
^d 1 = almost all plants erect; 2 = either all plants leaning slightly, or a few plants down; 3 = either all plants leaning moderately, or 25–50% of plants down; 4 = either all plants leaning considerably, or 50–80% of plants down; 5 = all plants down badly.

• = data not available.

Kibler: Vegetable Research Station (VRS)

Irrigated Soybean Varieties and Strains, 2022

VRS
Kibler, Arkansas



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 Date	Moisture (%)	Plant Height (in.)
		Average ^a	Average ^b			
		----- (bu./ac) -----				
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
DONMARIO 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
Innictis 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 Date	Moisture	Plant Height
		Average ^a	Average ^b			
		----- (bu./ac) -----			(%)	(in.)
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 Date	Moisture	Plant Height
		Average ^a	Average ^b			
		----- (bu./ac) -----			(%)	(in.)
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 Date	Moisture	Plant Height
		Average ^a	Average ^b			
		----- (bu./ac) -----			(%)	(in.)
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 S46E591	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.

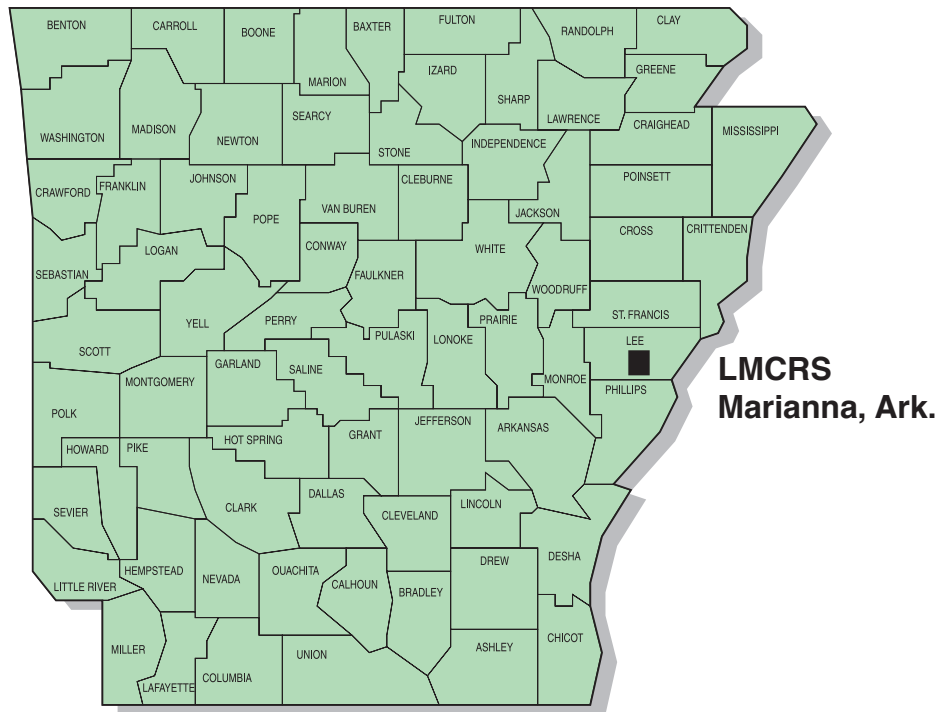
Variety/Experimental Line	2022	2-Year Average ^a	3-Year Average ^b	Maturity Date	Moisture (%)	Plant Height (in.)
		----- (bu./ac)				
Relative Maturity 5.0–5.9, continued						
Innotech 5143E3	75.2	•	•	10/9	9.5	44
DELTA GROW 52XF22/STS	74.6	•	•	10/10	9.8	46
Progeny P5150XFS	73.3	•	•	10/6	9.8	42
S16-14801C	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.

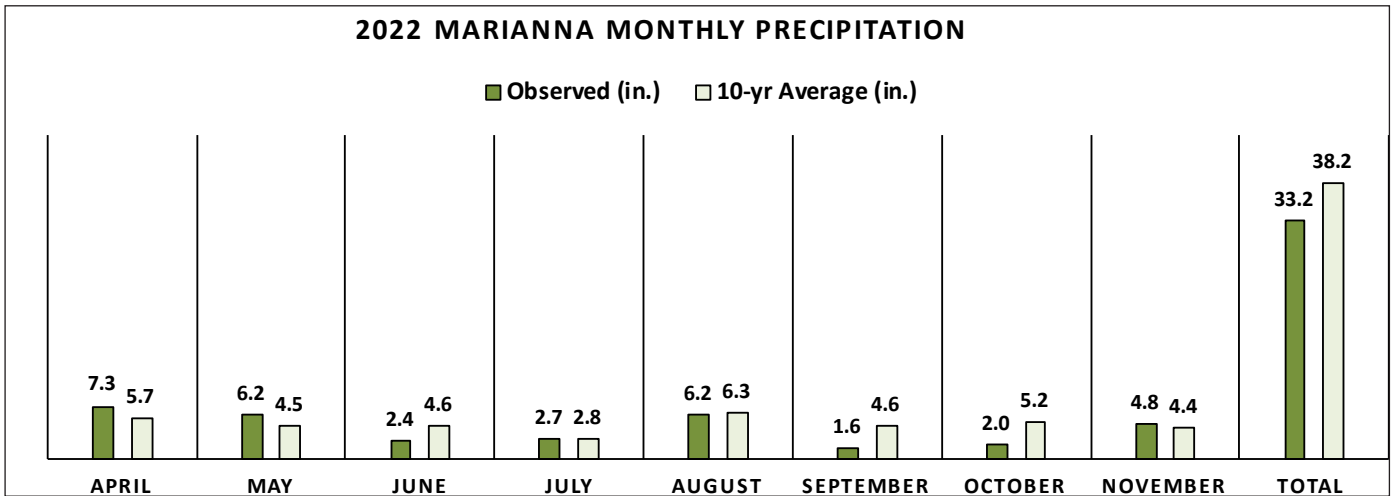
• = data not available.

Marianna: Lon Mann Cotton Research Station (LMCRS)

Irrigated Soybean Varieties and Strains, 2022



2022 MARIANNA MONTHLY PRECIPITATION



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	3-Year Average ^b	Moisture (%)	Lodging Score ^c	Plant Height (in.)
	------(bu./ac)-----					
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
Innvictis 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	3-Year Average ^b	Moisture (%)	Lodging Score ^c	Plant Height (in.)
	----- (bu./ac) -----					
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	3-Year Average ^b	Moisture (%)	Lodging Score ^c	Plant Height (in.)
	----- (bu./ac) -----					
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
Inn victis 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
Inn victis 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	3-Year Average ^b	Moisture (%)	Lodging Score ^c	Plant Height (in.)
	----- (bu./ac) -----					
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.

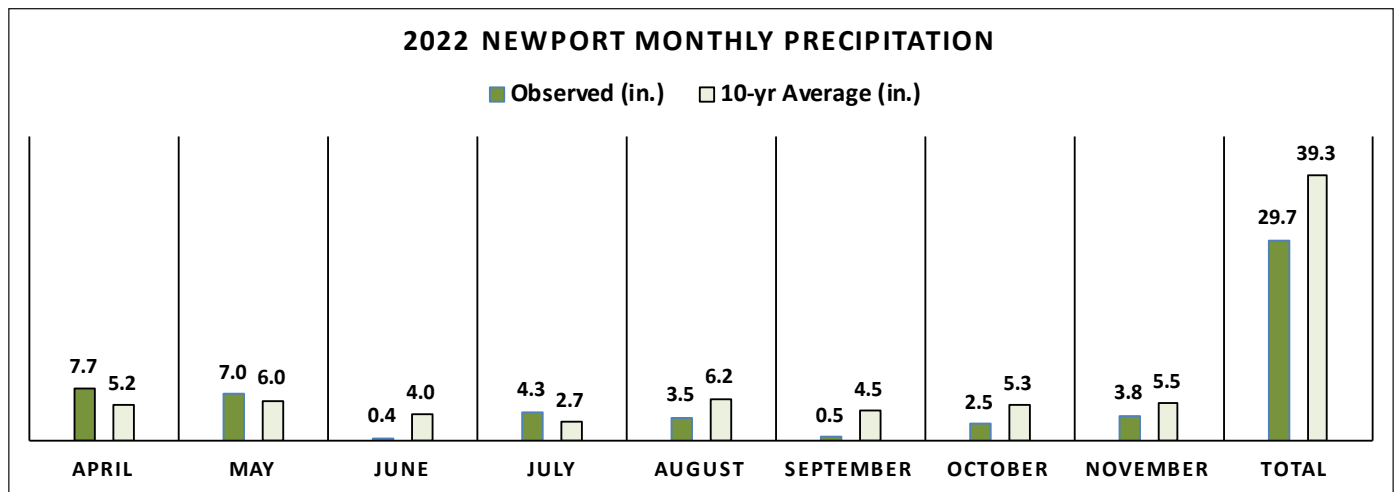
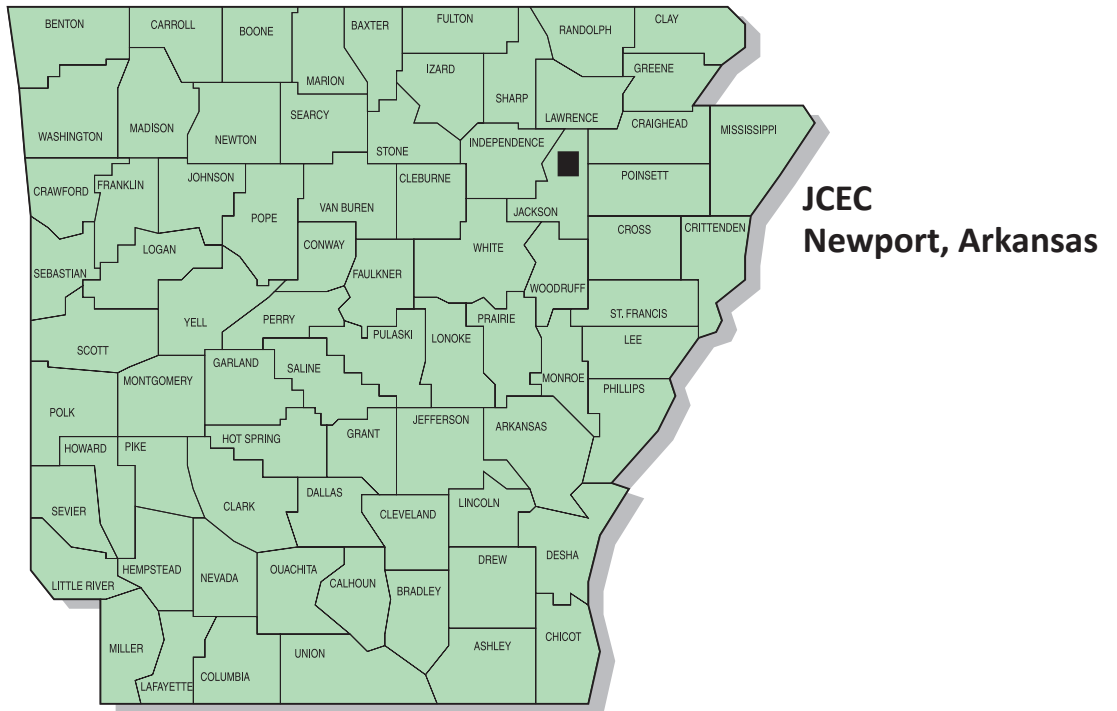
Variety/Experimental Line	2022	2-Year Average ^a	3-Year Average ^b	Moisture (%)	Lodging Score ^c	Plant Height (in.)
	----- (bu./ac) -----					
Relative Maturity 5.0–5.9, continued						
Progeny P5150XFS	62.2	•	•	10.2	1	36
Progeny P5554RX	58.5	60.6	•	10.3	1	32
S16-14801C	58.3	•	•	11.1	1	23
R18-14272	57.7	•	•	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

^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.

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	May 31
Prefix® 2.33 pt/ac	June 17
Select MAX® 16 fl oz/ac	June 29

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

Variety/Experimental Line	2022	2-Year	Lodging	Shatter	Plant	Mositure	Test
		Average ^a	Score ^b	Score ^c	Height	(%)	Weight
	----- (bu./ac) -----				(in.)		(lb/bu.)
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
Innvictis 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	2-Year	Lodging	Shatter	Plant	Mositure	Test
		Average ^a	Score ^b	Score ^c	Height		
	----- (bu./ac) -----				(in.)	(%)	(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
Innvictis 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	Lodging	Shatter	Plant	Mositure	Test
		Average ^a	Score ^b	Score ^c	Height	(%)	Weight
	----- (bu./ac) -----				(in.)		(lb/bu.)
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	Mositure	Test Weight
	----- (bu./ac) -----				(in.)	(%)	(lb/bu.)
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	Lodging	Shatter	Plant	Mositure	Test
		Average ^a	Score ^b	Score ^c	Height	(%)	Weight
	----- (bu./ac) -----				(in.)		(lb/bu.)
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.

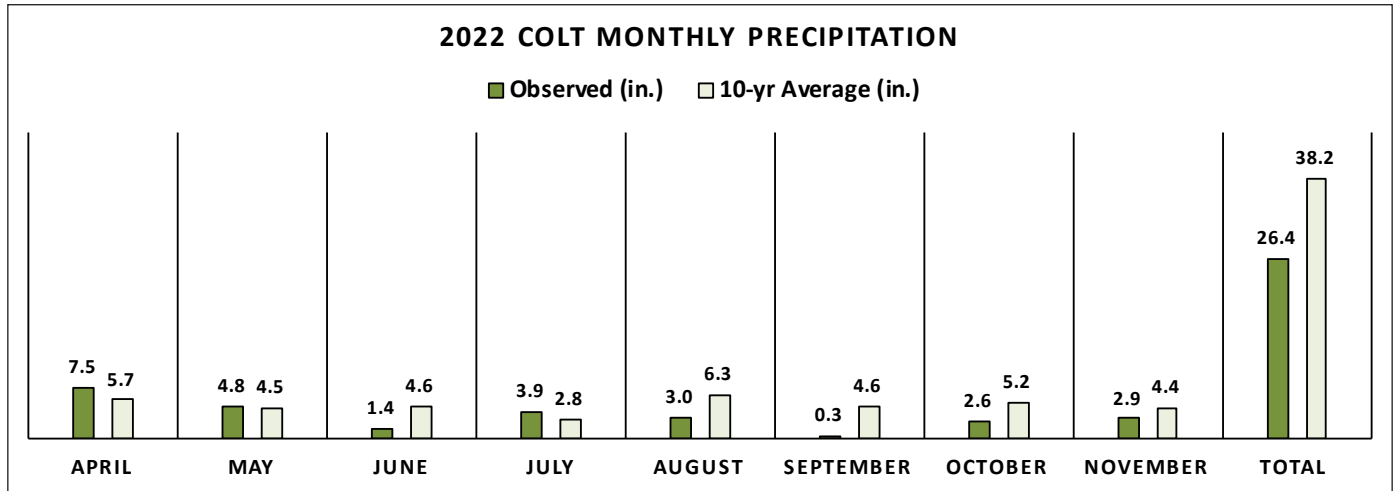
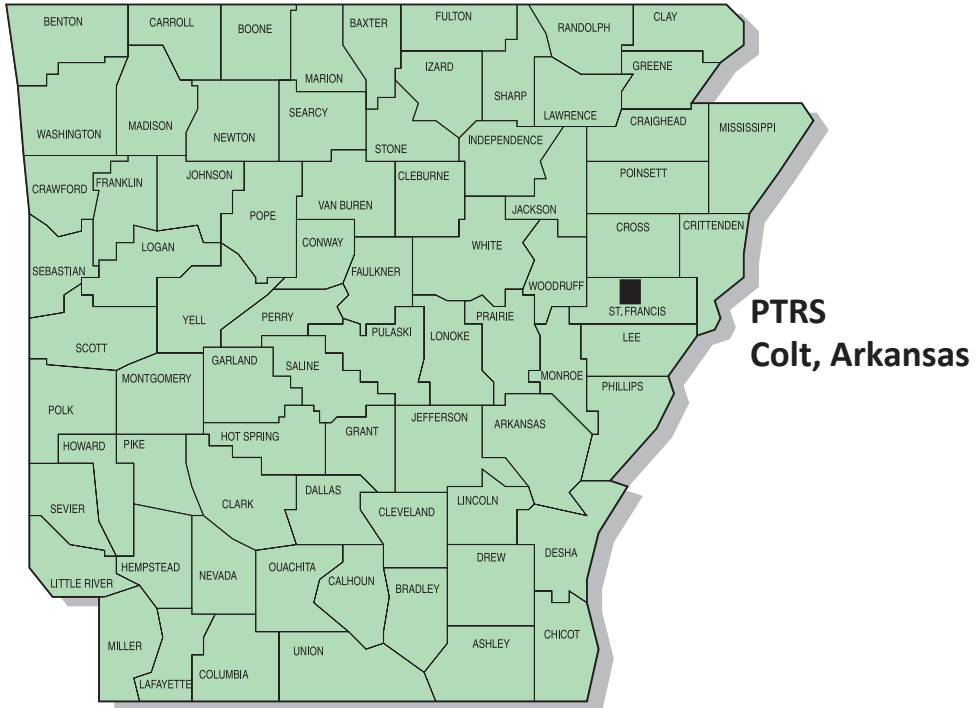
^b 1 = almost all plants erect; 2 = either all plants leaning slightly, or a few plants down; 3 = either all plants leaning moderately, 25–50% of plants down; 4 = either all plants leaning considerably, or 50–80% of plants down; 5 = all plants down badly.

^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)	Date
70 lb/ac P ₂ O ₅ 129 lb/ac K ₂ O	April 9 April 9
Herbicide Application(s)	Date
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	Lodging	Plant	Moisture
		Average ^a	Average ^b	Date	Score ^c	Height	
		------(bu./ac)-----				(in.)	(%)
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	Average ^b	Date	Score ^c	Height	
	------(bu./ac)-----					(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
Innictis 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 Date	Lodging Score ^c	Plant Height (in.)	Moisture (%)
	Average ^a		Average ^b				
	----- (bu./ac) -----						
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
Innvictis 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	3-Year Average ^b	Maturity Date	Lodging Score ^c	Plant Height	Moisture
	----- (bu./ac) -----					(in.)	(%)
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.

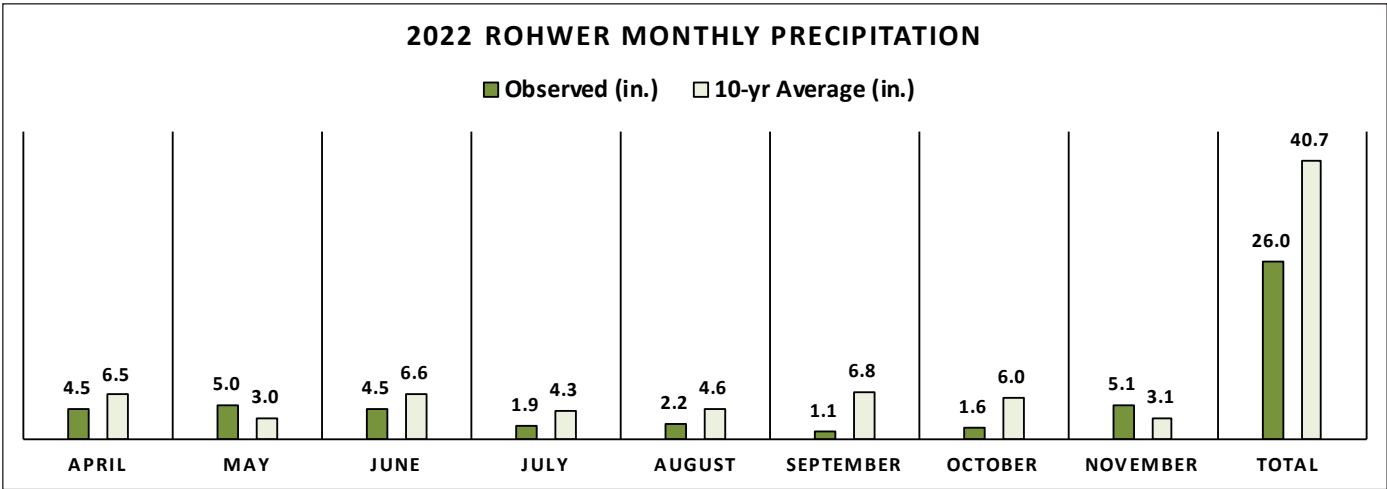
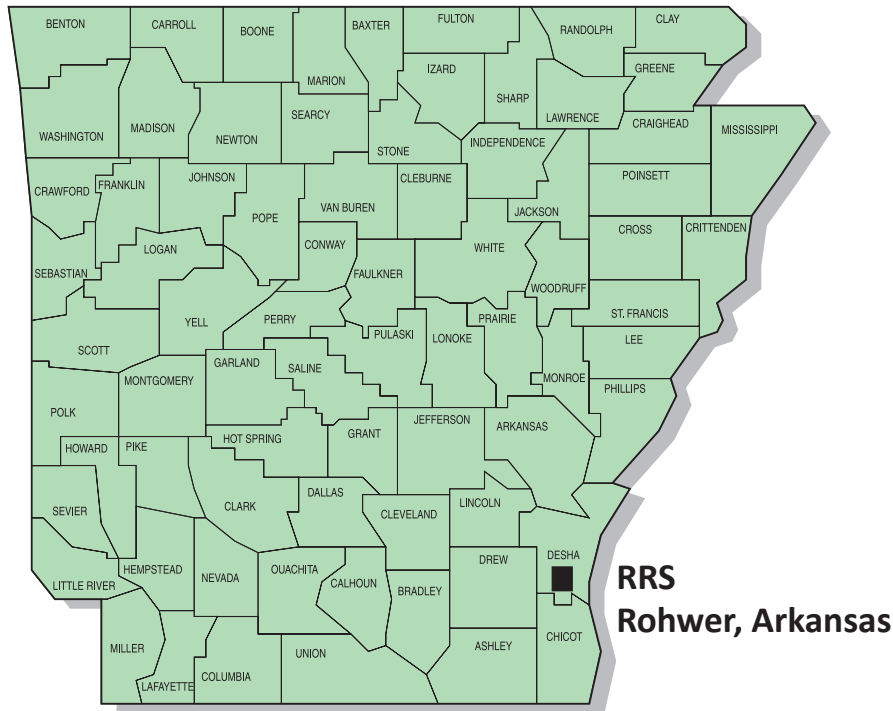
Variety/Experimental Line	2022	2-Year	3-Year	Maturity	Lodging	Plant	Moisture
		Average ^a	Average ^b	Date	Score ^c	Height	
	----- (bu./ac) -----					(in.)	(%)
Relative Maturity 5.0–5.9, continued							
Dyna-Gro S54XF62	64.8	•	•	10/2	1	26	10.3
DELTA GROW 52E80	64.3	67.0	•	10/3	1	37	10.0
R19C-3085	64.0	•	•	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, desha 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	3-Year	Test	Lodging	Moisture	Plant
		Average ^a	Average ^b	Weight	Score ^c		
		(bu./ac.)		(lb/bu.)		(%)	(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
Innvictis 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	3-Year	Test	Lodging	Moisture	Plant
		Average ^a	Average ^b	Weight	Score ^c		
		------(bu./ac)-----		(lb/bu.)		(%)	(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
Innvictis 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	Lodging	Moisture	Plant Height
		Average ^a	Average ^b	Weight	Score ^c		
		----- (bu./ac) -----		(lb/bu.)		(%)	(in.)
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
Innvtis 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	3-Year	Test	Lodging	Moisture	Plant
		Average ^a	Average ^b				
		----- (bu./ac) -----		(lb/bu.)		(%)	(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	3-Year	Test	Lodging	Moisture	Plant
		Average ^a	Average ^b	Weight	Score ^c		
		----- (bu./ac) -----		(lb/bu.)		(%)	(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.

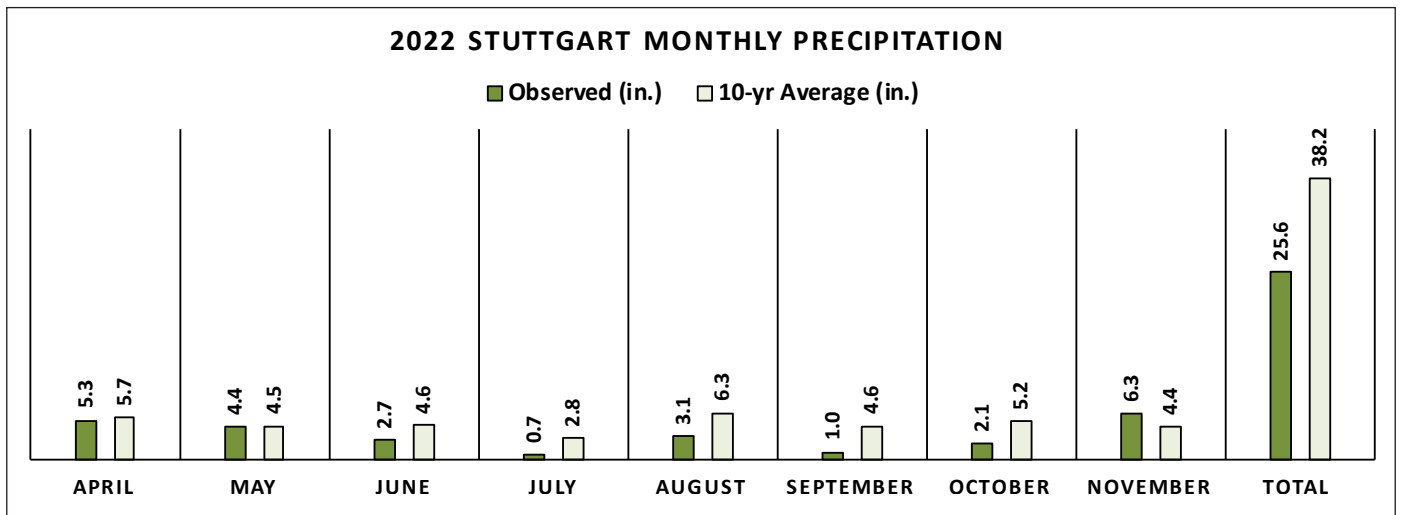
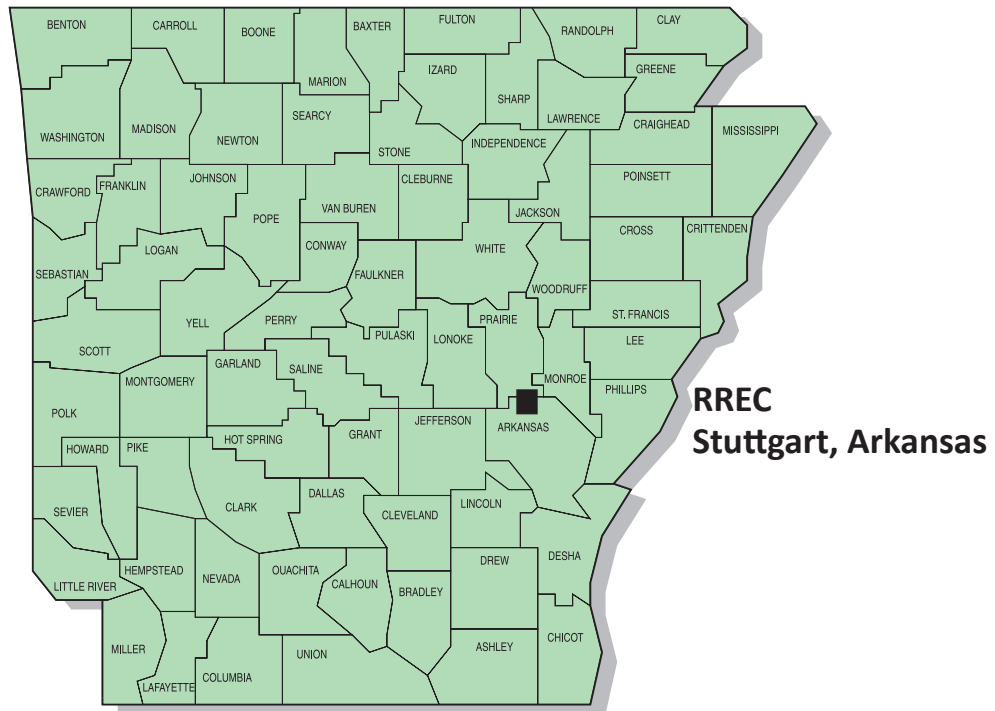
^b Average yield from 2020, 2021, 2022.

^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
Crowley silt loam
Previous Crop
Rice
Row Spacing
30 in.
Planting Date
May 20
Irrigation Dates
July 2, 17; Aug. 13; Sept. 2, 22

Harvest	Date
Relative Maturity (RM) (4.0–4.5), RM (4.6–4.9), RM (5.0–5.9)	Oct. 13, 18, 18
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 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	Moisture
	----- (bu./ac) -----					(in.)	(%)
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
Innvictis 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	3-Year	Maturity Date	Lodging Score ^c	Plant Height	Moisture
		Average ^a	Average ^b				
		----- (bu./ac) -----					
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
Innvictis 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	3-Year	Maturity Date	Lodging Score ^c	Plant Height	Moisture
	Average ^a						
	----- (bu./ac) -----					(in.)	(%)
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	Moisture
	------(bu./ac)-----					(in.)	(%)
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.

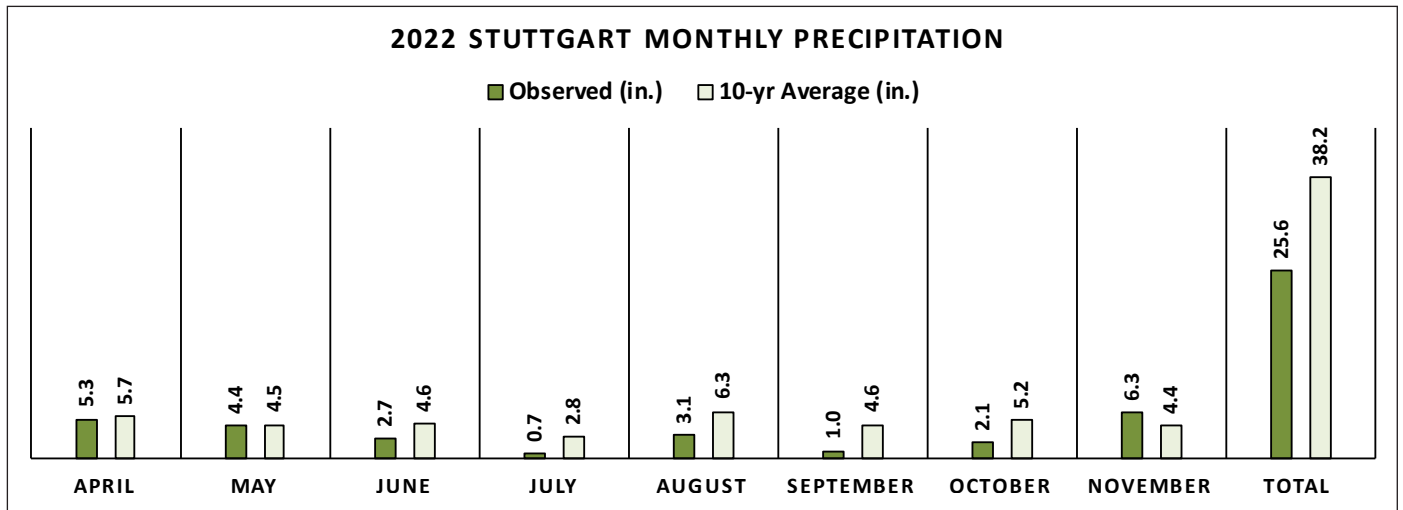
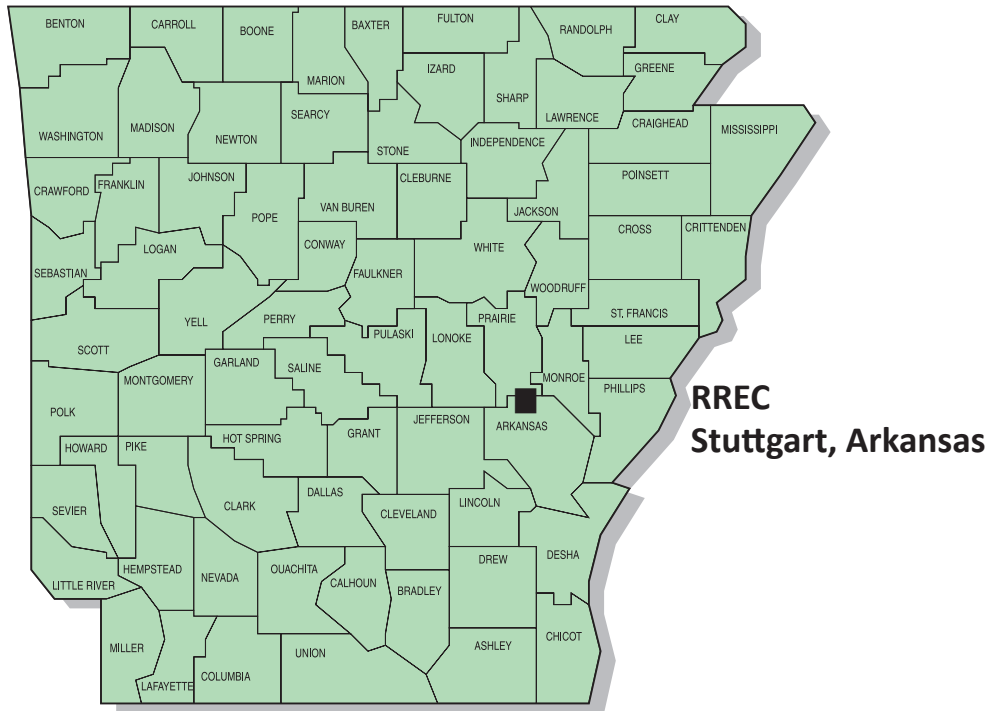
Variety/Experimental Line	2022	2-Year Average ^a	3-Year Average ^b	Maturity Date	Lodging Score ^c	Plant Height (in.)	Moisture (%)
	------(bu./ac)-----						
Relative Maturity 5.0–5.9, continued							
Progeny P5554RX	76.4	•	•	10/6	0	35	9.6
Revere 5429E3	75.5	•	•	10/9	2	48	9.7
DELTA GROW 52XF22/STS	75.3	•	•	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 Average ^a	3-Year Average ^b	Maturity Date	Shatter Score ^c	Plant Height	Moisture
	------(bu./ac)-----					(in.)	(%)
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
Innvictis 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	3-Year	Maturity Date	Shatter Score ^c	Plant Height	Moisture
		Average ^a	Average ^b				
		----- (bu./ac)				(in.)	(%)
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
Innvictis 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	Average ^b				
		----- (bu./ac) -----					
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 S46E591	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	Average ^b				
		----- (bu./ac) -----					
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
Innictis 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 Average ^a	3-Year Average ^b	Maturity Date	Shatter Score ^c	Plant Height	Moisture
	----- (bu./ac) -----					(in.)	(%)
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

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

^b Treatments (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	Maturity	Avg. Field Gall	Avg. GH Gall
	Technology		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		Avg. Field Gall	Avg. GH Gall
	Technology	Maturity	Rating ^c	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		Avg. Field Gall	Avg. GH Gall
	Technology	Maturity	Rating ^c	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
Innictis MEX44122XF	XtendFlex	4.4	R	0
Innictis MEX46332XF	XtendFlex	4.6	R	4
Innictis 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 Technology	Maturity	Stem Canker Rating ^b	Frogeye Leaf 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
Innictis 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
Innictis MEX46332XF	XtendFlex	4.6	1	Strong Excluder
Innictis 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

^a Chloride 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 to 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 Saltro/Vayantis
	Dyna-Gro S43XS70	4.3	Xtend/STS	Equity VIP Saltro/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
	Progeny P4951XFS	4.9	XFS	ProServo/S
Arkansas Agricultural Experiment Station, University of Arkansas System Division of Agriculture 115 Plant Science Building Fayetteville, AR 72701	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
Innictis Seed Solutions 1880 Fall River Drive Loveland, CO 80538	Innictis MEX44122XF	4.4	XtendFlex	Insecticide / fungicide
	Innictis MEX46332XF	4.6	XtendFlex	Insecticide / fungicide
	Innictis 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 Saltro w/ Vayantis
	Dyna-Gro S42XF93S	4.2	XtendFlex	Equity VIP Saltro w/ Vayantis
	Dyna-Gro S43XS70	4.3	Xtend/STS	Equity VIP Saltro w/ Vayantis
	Dyna-Gro S45ES10	4.5	Enlist/STS	Equity VIP Saltro w/ Vayantis
	Dyna-Gro S45XF02	4.5	XtendFlex	Equity VIP Saltro w/ Vayantis
	Dyna-Gro S46ES91	4.6	Enlist/STS	Equity VIP Saltro w/ Vayantis
	Dyna-Gro S46XF31S	4.6	XtendFlex	Equity VIP Saltro w/ Vayantis
	Dyna-Gro S46XS60	4.6	Xtend/STS	Equity VIP Saltro w/ Vayantis
	Dyna-Gro S47XF23S	4.7	XtendFlex	Equity VIP Saltro w/ Vayantis
	Dyna-Gro S47XF52	4.7	XtendFlex	Equity VIP Saltro w/ Vayantis
	Dyna-Gro S49EN12	4.6	Enlist E3	Equity VIP Saltro w/ Vayantis
	Dyna-Gro S49XF82S	4.9	XtendFlex/STS	Equity VIP Saltro w/ Vayantis
	Dyna-Gro S54XF62	5.4	XtendFlex	Equity VIP Saltro 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, imidiclopid, metalaxyl, ipconazole
	USG 7463XFS	4.6	XtendFlex	Carboxin, imidiclopid, metalaxyl, ipconazole
	USG 7481XF	4.8	XtendFlex	Carboxin, imidiclopid, metalaxyl, ipconazole
	USG 7493ETS	4.9	Enlist	Carboxin, imidiclopid, 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

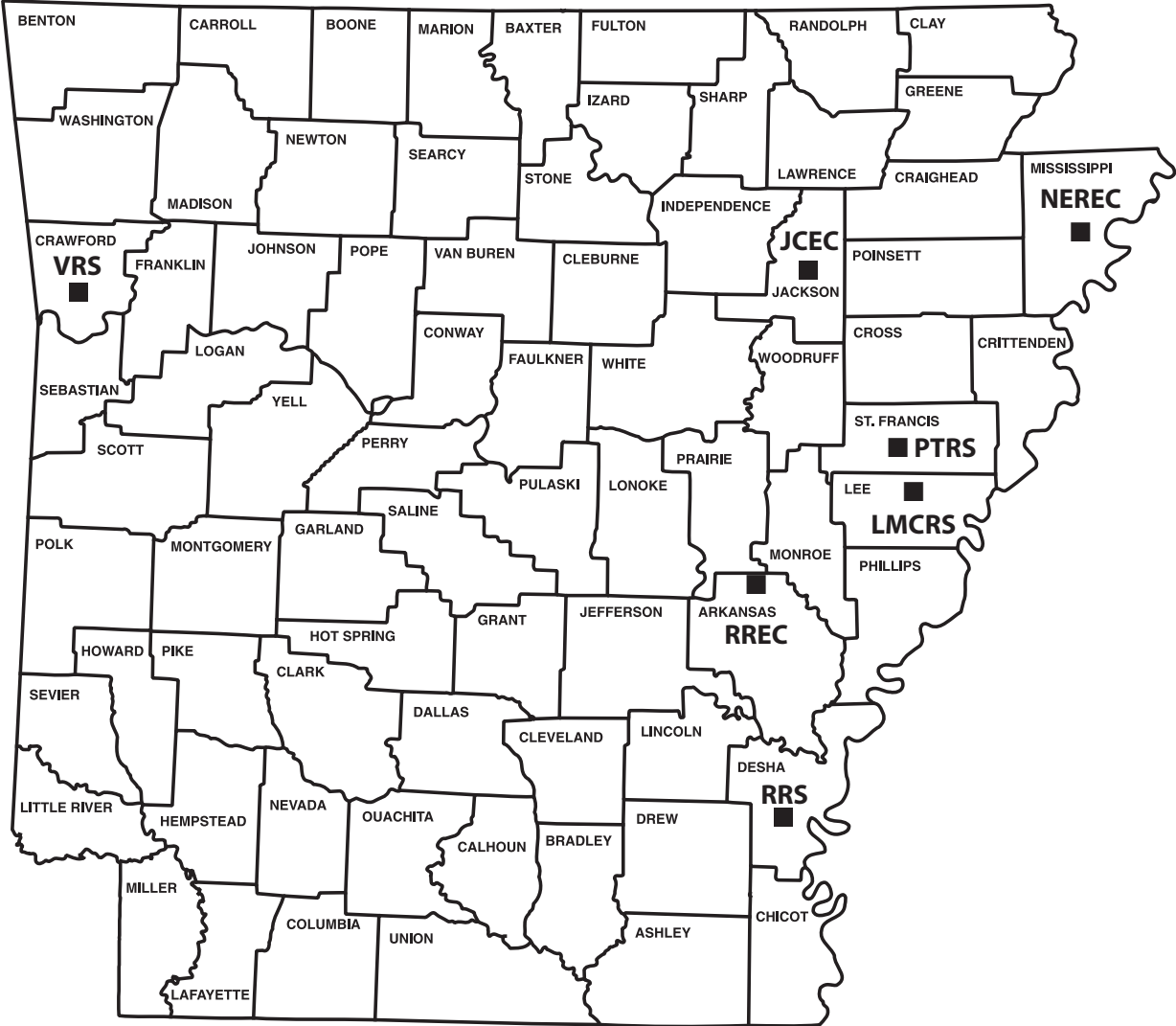
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**Full-Season Tests, Participants and Entries
2022 Soybean Performance Tests, Continued**

Company/ Institute	Variety/Experimental Line	Relative Maturity	Herbicide Technology	Seed Treatment
Arkansas Agricultural Experiment Station, University of Arkansas System Division of Agriculture Continued 115 Plant Science Building Fayetteville, AR 72701	R18C-11737	4.3	Conv.	Seed Shield Max
	R18C-13253	4.9	Conv.	Seed Shield Max
	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 147 State Hwy T Portageville, MO 63873	S16-13165C	4.7	Conv.	Warden CX
	S16-14801C	5.0	Conv.	Warden CX
	S16-7922C	4.9	Conv.	Warden CX
	S17-2193C	4.7	Conv.	Warden CX
Wilbur-Ellis 2219 229th PI Ames, IA 50014	Integra 54660NS	4.6	Xtend	Accelaron
	Integra 54891NS	4.8	Xtend	Accelaron
	Integra 74142NS	4.1	XtendFlex	Accelaron
	Integra 74383N	4.3	XtendFlex	Accelaron
	Integra 74621NS	4.6	XtendFlex	Accelaron
	Integra 74731NS	4.7	XtendFlex	Accelaron
Integra 74893NS	4.8	XtendFlex	Accelaron	
WinField United 2532 Alexander Dr. Jonesboro, AR 72401	Armor 44-D49	4.4	Xtend	Warden CX
	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

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