



Extension
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Soybean Variety Performance Trials

Department of Plant and Agroecosystem Sciences, College of Agricultural and Life Sciences, University of Wisconsin-Madison





2023 Wisconsin Soybean Performance Trials

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The Wisconsin Soybean Performance Trials are conducted each year with the producer's needs in mind. Our objective is to give producers the information to select varieties that will satisfy their specific goals and are most likely to perform best under their management practices.

How the entries were tested

Seed companies, private breeders and University research and Extension specialists voluntarily submitted any number of entries they wished. Most of these entries are commercially available, but experimental varieties were also tested. Several additional commercial and public cultivars were included for comparison.

Tests were conducted using conventional, reduced tillage or no-till practices. All performance trials were planted at 160,000 seeds/A in 15" rows. Tests were conducted using a randomized complete block design with four replicates. Table 1 also lists the herbicides used for weed control.

Growing conditions

Wisconsin soybean growers experienced below average growing conditions across much of the state in 2023. Normal precipitation in April and May coupled with average temperatures led to normal soybean planting timing. Statewide drought-like conditions and above normal temperatures were a significant challenge to the 2023 soybean crop. The 2023 pro-

jected statewide average soybean yield is 44.0 bu/A, down 10 bu/A from 2022. Production is expected to be at 91.1 million bushels, down 22% from 2022.

Source: October 12, 2023 NASS report, www.nass.usda.gov

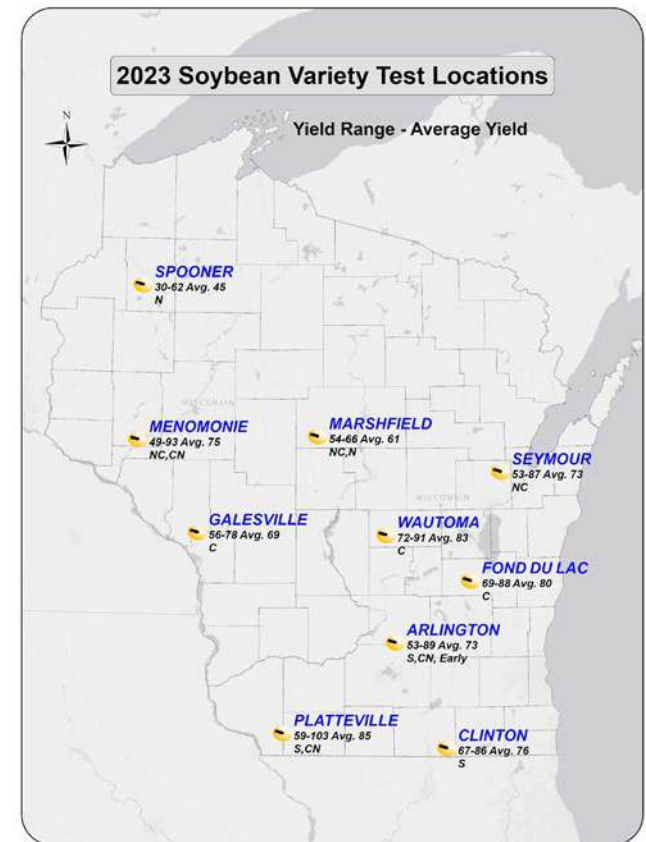
Statewide crop conditions were rated at about 53% good to excellent for most of the season. As of October 30th, 77% of the WI soybean crop had been harvested, which is 2 days ahead of the average. The Seymour site was rated for white mold and the glyphosate tolerant trial in Arlington was excluded from the southern region multi-test average yield due to high field variability from drought conditions.

How performance was measured

Yield: Plots were weighed, and moisture was determined in the field using electronic equipment on the plot harvester. Yields are reported in bushels (60 pounds/bushel) per acre at 13% moisture content.

Lodging: Lodging scores were based on the average erectness of the main stem of plants at maturity (1 = all plants erect, 2 = slight lodging, 3 = plants lodged at 45-degree angle, 4 = severe lodging, 5 = all plants flat).

Maturity: An entry was considered mature when at least 95% of the pods had turned their mature color or a killing frost occurred. Seven to ten days of drying weather are generally required before soybeans are ready to harvest. Variety performance is presented by brand, and then from earliest to latest maturity based on company supplied variety information.



Protein and oil

Seed samples from all varieties grown in select locations were collected and analyzed using a near infrared transmittance (NIRT) grain analyzer to determine grain composition. Our goal in providing this information is to increase soybean value transparency so producers can consider the protein and oil content of varieties planted as well as the yield. The factor that influences protein the most and that is under control of a producer is variety selection. Data from the Wisconsin Soybean Variety Tests indicates that proper variety selection can result in 200 more pounds per acre of protein and oil without compromising grain yield.

Common Diseases of Wisconsin Soybean

Phytophthora Root and Stem Rot (PRSR)

(caused by *Phytophthora sojae*)

There are many races of *P. sojae*. Resistance genes are incorporated into varieties (see Table 10) to provide complete or partial resistance to this organism as follows:

Gene Races

Rps1-a 1, 2, 10, 11, 13-18, 24

Rps1-b 1, 3-9, 13-15, 17, 18, 21, 22

Rps1-c 1-3, 6-11, 13, 15, 17, 21, 23, 24

Rps1-k 1-11, 13-15, 17, 18, 22, 24

Rps3-a 1-5, 8, 9, 11, 13, 14, 16, 18, 23, 25

Rps4 1-4, 10, 12, 16, 18-21, 25

Rps6 1-4, 10, 12, 14-16, 18-21, 25

Selection of soybean varieties with the appropriate resistance gene is paramount for its control. The population of the PRSR pathogen can be a single race or mixed races in the field. The last time a survey of *Phytophthora* races was done in Wisconsin (over 15 years ago), it was noted that the *Rps* 1-k resistance gene should be effective on about 99% of the acres in the state. Due to heavy use of the *Rps* 1-k resistance gene, we believe that the population in the state has shifted. We are seeing that resistance readily overcome. Unfortunately, most of the varieties currently grown in the state have this resistance. A recent Check of the soybean variety trials 2022 show that out of 265 varieties tested 25% had no PRSR resistance gene, 2% had *Rps* 1-a, 29% *Rps* 1-c, 26% *Rps* 1-k, 9% *Rps* 3-a, and 9% had multi-genes. We are actively working with the Wisconsin Soybean Marketing Board to understand what the current population looks like. However, it is too early to tell what the races are pri-

marily in our fields. Moving forward, perhaps choosing *Rps* 3-a or mixed gene varieties could help.

Other things you can do for PRSR are to open the rotation between soybean crops and improve drainage in fields that are typically saturated for long periods of time. Adjusting variety choice can help too. Seed treatment fungicides can also be used. However, remember that the seed treatment is only going to be effective for the first 30 days or so after planting. After that we have to rely on varietal resistance to manage this problem. The information shown in Table 10 is based on information supplied by public breeders or companies that are releasing or marketing the variety. It is advised to consider *Phytophthora* resistance carefully as there was moderate incidence and severity of PRSR in Wisconsin in 2023.

White Mold (caused by *Sclerotinia sclerotiorum*)

The white mold fungus infects through the flowers during early reproductive growth; symptoms are delayed until early pod formation, and plant death is evident as the crop progresses towards maturity. White mold was a moderate issue in some fields across Wisconsin in 2023, especially those that were planted to known susceptible varieties. The reaction of soybean varieties to the white mold pathogen is expressed as plant mortality in the presence of high white mold pressure and reduced grain yield when incidence is above 10%. Varieties that express 25% or less plant incidence generally yield well in the presence of white mold. However, for every 10% increase in white mold incidence at the R7 growth stage, one can expect yield to be reduced 2-5 bu/A.

Soybean Cyst Nematode (*Heterodera glycines*)

Soybean cyst nematode (SCN) has gained significant importance as a yield-limiting pathogen in

Wisconsin. A major concern is that growers are not aware of its presence on their farms. SCN can cause severe stunting and chlorosis of soybean plants, but these symptoms are not always common; SCN can also cause major yield loss without obvious symptoms. The most common “symptom” caused by SCN is a yield decline over years even though best crop management practices are used. Significant advances have been made to improve varieties for resistance to SCN. High yield performance in the presence of SCN is an excellent strategy to help select varieties that are resistant or tolerant in SCN infested fields. Watch for white mold when SCN resistant varieties are planted for the first time in SCN infested fields. SCN can suppress dense crop canopies required for white mold to develop. Many SCN resistant varieties are also resistant to brown stem rot. Free SCN soil testing for growers is available through a grant from the Wisconsin Soybean Marketing Board. For testing kits please email: freescntest@mailplus.wisc.edu. For more information on SCN please visit: <https://www.thescncoalition.com/partners/university-partners/university-wisconsin-madison>

Brown Stem Rot (caused by *Cadophora gregata*)

Brown stem rot (BSR) is an important disease of soybean to consider in Wisconsin. BSR can occasionally be found in fields in Wisconsin where susceptible varieties are planted and/or where there were short rotations between soybean crops. External symptoms of BSR are not observed until after pod development begins. There are examples where fields have both BSR and sudden death syndrome, which can make diagnoses difficult since foliar symptoms are similar. There are two pathotypes of the pathogen that cause BSR. The defoliating pathotype causes more severe internal stem discoloration and defoliation of leaves, compared with the

non-defoliating pathotype that only causes internal stem symptoms. The non-defoliating pathotype may be becoming more prevalent, so be sure to cut soybean stems to identify symptoms if you notice plants that are unthrifty, stunted, or yellowing prematurely. Select resistant varieties if BSR has been a problem in the field. Some SCN-resistant soybean varieties are also resistant to BSR.

Sudden Death Syndrome

(caused by *Fusarium virguliforme*)

Sudden death syndrome (SDS) incidence was low in 2023 in Wisconsin. SDS is caused by a fungus. If SCN and SDS are both diagnosed in the same field, damage to the soybean crop can be significant. However, recent studies in Wisconsin suggest that the presence of SCN does not always mean SDS will also be found. The primary symptom of SDS is sudden leaf yellowing and browning during early pod development followed by leaf drop. Leaf symptoms of SDS and BSR can be similar, so be sure to cut soybean stems to rule out browning of the internal stem (pith) to confirm SDS. SDS resistance information is available on tech data sheets from seed companies. Several seed treatments are available on the market that have excellent efficacy against SDS. Contact your seed dealer for details and limitations of these products.

Soybean viruses and insects

Soybean aphids were localized again in 2023; whereas spider mite infestations were a greater issue across WI due to elevated drought conditions. Those growers that did not manage aphids or spider mites accrued significant yield loss. The bean leaf beetle was observed in low numbers in the southern counties. Soybean growers and agronomic advisors need to carefully monitor early season bean leaf beetle populations again in 2024. The virus situation in fields also needs to be assessed; virus-infected soy-

bean plants commonly produce discolored seed. Late season bean leaf beetle infestation can cause extensive feeding injury to pods, thus combining with *Bean pod mottle virus* to reduce seed yield and quality. Evidence is increasing that soybean varieties differ in the ability to yield in the presence of insects and associated viruses. In 2023, symptoms of *Tobacco streak virus* (TSV) were occasionally observed in soybean fields. To a lesser extent symptoms of *Alfalfa mosaic virus* (AMV) were also observed. Symptoms of *Soybean vein necrosis virus* (SVNV) were more prevalent in Wisconsin in 2023 than in 2022 but did not cause any yield reductions.

What the results mean

The performance of a variety may vary from year to year, even at the same location. Multiple tests over two or more years more accurately predict the variety performance. When selecting varieties, consider maturity, herbicide tolerance, disease resistance, and grain composition in addition to yield.

Small differences in yield may not be significant. The yield of any two entries may differ because of chance factors (such as differences in fertility, moisture availability and diseases) even though the two entries do not have inherently different yielding abilities. As an aid in determining true differences in yield, the Least Significant Difference (LSD) statistic is used. If the difference between varieties is greater than the tabulated LSD value, then the entries are said to be “significantly different.” The probability of a mean difference being greater than the LSD by chance is 1 out of 10 for the 0.10 LSD value. Data that is not significant is indicated by NS.

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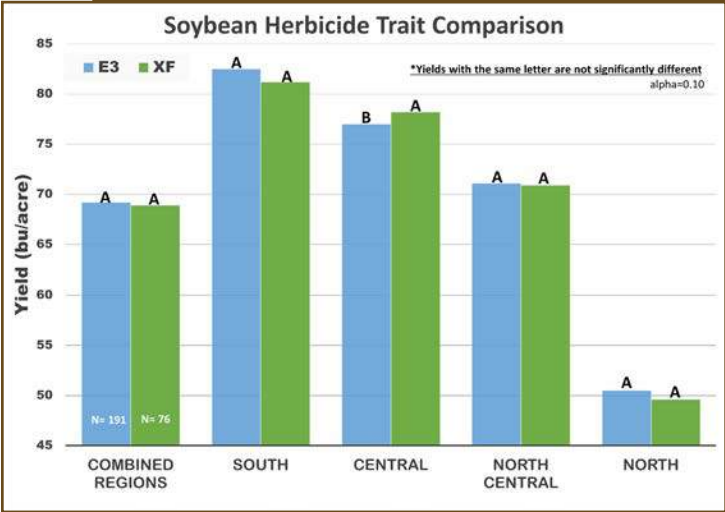


TABLE 1. General Information on the 2023 Soybean Trials

Location: Trial	Cooperators	Row Spacing (in.)	Tillage	Soil Test Results					Pesticide Applications		Dates		Average Yield (bu/A)		
				Soil Texture	pH	OM (%)	P (ppm)	K (ppm)	Pre-emergent / Pre-plant	Post-emergent	Planting	Harvest	2023	2022	2022-23
Arlington: Glyphosate Tolerant	Mike Bertram	15	no-till	Plano silt loam	7.2	3.3	41	116	2,4-D, glyphosate, Medal II, Sonic	glyphosate	11-May	19-Oct	70	84	77
Arlington: Conventional Herbicide	Mike Bertram	15	no-till	Plano silt loam	7.2	3.3	41	116	2,4-D, glyphosate, Medal II, Sonic	--	11-May	19-Oct	72	67	70
Arlington: Early Maturity	Mike Bertram	15	no-till	Plano silt loam	7.2	3.3	41	116	2,4-D, glyphosate, Medal II, Sonic	glyphosate	11-May	3-Oct	77	--	77
Clinton: Glyphosate Tolerant	Gary Sommers, Matt Rehberg	15	no-till	Ogle silt loam	6.2	5.0	147	428	2,4-D, metolachlor, Sonic	glufosinate, glyphosate, Select Max, Warrant	5-May	18-Oct	76	82	79
Fond du Lac: Glyphosate Tolerant	Ed Montsma	15	no-till	Virgil silt loam	6.0	3.8	55	187	Authority First, Dual II Magnum, glyphosate	glyphosate, Select Max	12-May	18-Oct	80	78	79
Galesville: Glyphosate Tolerant	Ken Congdon	15	no-till	Festina silt loam	6.4	3.9	117	206	Authority First, Dual II Magnum, glyphosate	Flexstar, glyphosate, Warrant	4-May	10-Oct	69	81	75
Wautoma: Glyphosate Tolerant	Sara Stelter	15	conventional	Richford loamy sand	5.9	2.1	181	267	Dual II Magnum	glyphosate, Warrant	3-May	11-Oct	83	61	72
Marshfield: Glyphosate Tolerant (North Central)	Ashley Blackburn	15	no-till	Withee silt loam	7.0	4.3	39	317	Authority First, Dual II Magnum, glyphosate	glyphosate	18-May	10-Oct	60	62	61
Marshfield: Glyphosate Tolerant (North)	Ashley Blackburn	15	no-till	Withee silt loam	7.0	4.3	39	317	Authority First, Dual II Magnum, glyphosate	glyphosate	18-May	9-Oct	61	56	59
Menomonie: Glyphosate Tolerant	Tony Mellenthin, Jerry Clark	15	no-till	Meridian silt loam	6.4	2.3	53	135	Authority First, Dual II Magnum, glyphosate	glufosinate, glyphosate, Select Max, Warrant	4-May	10-Oct	80	51	66
Menomonie: Conventional Herbicide	Tony Mellenthin, Jerry Clark	15	no-till	Meridian silt loam	6.4	2.3	53	135	Authority First, Dual II Magnum, glyphosate	Flexstar, Select Max	4-May	10-Oct	69	48	59
Platteville: Glyphosate Tolerant	Schweigert Family Farms	15	no-till	Tama silt loam	6.5	4.4	84	414	glyphosate, Zidua Pro	--	5-May	4-Oct	89	87	88
Platteville: Conventional Herbicide	Schweigert Family Farms	15	no-till	Tama silt loam	6.5	4.4	84	414	glyphosate, Zidua Pro	--	5-May	4-Oct	81	81	81
Seymour: Glyphosate Tolerant	Mike Maass	15	conventional	Onaway sandy loam	7.1	3.2	80	197	Authority First, Dual II Magnum	glyphosate, Select Max	16-May	9-Oct	73	80	77
Spooner: Glyphosate Tolerant (Dryland)	Phil Holman	15	conventional	Antigo silt loam	6.4	2.3	27	125	--	Charger Max, glyphosate, Select Max	25-May	10-Oct	37	56	47
Spooner: Glyphosate Tolerant (Irrigated)	Phil Holman	15	conventional	Cress sandy loam	6.0	2.3	26	79	--	glyphosate, Pursuit	24-May	10-Oct	52	60	56

TABLE 2. 2023 Southern Region Glyphosate Tolerant Soybean Trial (1 of 4)

Brand	Entry	Herbicide Trait ¹	Maturity Group	Maturity Date ²	2023 2-Test Average ³		2023 Yields			2023 Composition ²		2022 3-Test Average		2022 Composition ²	
					Yield (bu/A)	Lodging (1-5)	Arlington (bu/A)	Clinton (bu/A)	Platteville (bu/A)	Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
Alloy	A23E33	E3	2.3	1-Oct	85	1.0	66	*80	90	35.5	19.1	--	--	--	--
Alloy	A26E33	E3	2.6	1-Oct	77	1.0	*69	70	83	32.6	20.3	--	--	--	--
Asgrow	AG20XF1	XF	2.0	1-Oct	80	1.0	*70	74	86	34.6	19.2	73	1.4	33.6	18.7
Asgrow	AG21XF2	XF	2.1	25-Sep	*87	1.0	*73	*79	*96	35.1	19.5	--	--	--	--
Asgrow	AG23XF3	XF	2.3	1-Oct	81	1.0	*69	70	92	33.5	20.1	--	--	--	--
Asgrow	AG27XF3	XF	2.7	8-Oct	*87	1.0	67	*83	91	32.9	19.8	--	--	--	--
Burrus	2096E	E3	2.0	1-Oct	*87	1.0	68	*79	*96	33.3	20.4	*86	1.4	32.0	19.8
Burrus	2335E	E3	2.3	1-Oct	*87	1.0	*73	*82	93	33.3	20.5	--	--	--	--
Burrus	2681E	E3	2.6	8-Oct	83	1.0	*73	*79	87	32.7	20.7	--	--	--	--
Cornelius	CB23XF63	XF	2.3	1-Oct	80	1.0	65	76	83	34.8	19.3	--	--	--	--
Cornelius	CB25XF99	XF	2.5	1-Oct	79	1.0	*69	73	86	34.2	19.2	82	1.6	32.7	19.0
Cornelius	CB27XF72	XF	2.7	1-Oct	81	1.0	*75	74	89	35.0	19.4	--	--	--	--
Cornelius	CB29XF44	XF	2.9	1-Oct	77	1.0	*72	72	82	34.4	19.0	--	--	--	--
Dairyland	DSR-2188E	E3	2.1	26-Sep	78	1.0	*70	72	84	32.6	20.9	82	1.5	32.3	20.2
Dairyland	DSR-2310E	E3	2.3	1-Oct	76	1.0	61	72	80	35.5	19.7	--	--	--	--
Dairyland	DSR-2444E	E3	2.4	1-Oct	*88	1.0	*70	*84	92	33.7	19.3	--	--	--	--
Dairyland	DSR-2562E	E3	2.5	1-Oct	77	1.0	65	71	84	34.2	19.5	79	1.0	32.6	18.9
Dairyland	DSR-2691E	E3	2.6	1-Oct	84	1.0	63	77	91	34.0	19.6	--	--	--	--
Dairyland	DSR-2717E	E3	2.7	1-Oct	*90	1.0	*76	*84	*97	32.6	20.5	*88	1.2	32.0	20.0
DONMARIO	DM 24E23	E3	2.4	1-Oct	83	1.0	*69	76	89	33.9	19.6	79	1.3	32.8	18.8
DONMARIO	DM 27E34	E3	2.7	1-Oct	*90	1.0	*70	*86	94	33.9	19.8	--	--	--	--
DONMARIO	DM 28E52	E3	2.8	5-Oct	*92	1.0	*70	*82	*103	34.0	19.2	*90	1.3	32.9	18.7
Dyna-Gro	S20EN84	E3	2.0	1-Oct	77	1.0	67	71	82	32.7	21.0	--	--	--	--
Dyna-Gro	S21EN81	E3	2.1	1-Oct	79	1.0	*74	74	84	32.6	20.6	*92	1.4	31.8	20.1
Dyna-Gro	S25EN74	E3	2.5	5-Oct	85	1.0	*76	*79	90	32.0	20.8	--	--	--	--
Dyna-Gro	S25XF64	XF	2.5	1-Oct	78	1.0	*69	68	87	33.9	19.3	--	--	--	--
Dyna-Gro	S26EN53	E3	2.6	1-Oct	83	1.0	*70	74	92	33.6	19.7	83	1.8	33.0	19.4

TABLE 2. CONTINUED. 2023 Southern Region Glyphosate Tolerant Soybean Trial (2 of 4)

Brand	Entry	Herbicide Trait ¹	Maturity Group	Maturity Date ²	2023 2-Test Average ³		2023 Yields			2023 Composition ²		2022 3-Test Average		2022 Composition ²	
					Yield (bu/A)	Lodging (1-5)	Arlington (bu/A)	Clinton (bu/A)	Platteville (bu/A)	Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
FS HiSOY	HS 12F30	XF	1.2	22-Sep	75	1.0	*71	68	83	34.2	19.9	--	--	--	--
FS HiSOY	HS 18E30	E3	1.8	1-Oct	79	1.0	*73	75	83	31.7	20.6	--	--	--	--
FS HiSOY	HS 18F20	XF	1.8	1-Oct	82	1.0	*72	74	90	32.8	20.3	78	1.6	32.1	19.9
FS HiSOY	HS 21E20	E3	2.1	1-Oct	81	1.0	68	76	85	34.0	19.7	--	--	--	--
FS HiSOY	HS 23E10	E3	2.3	1-Oct	81	1.0	*73	72	89	32.5	20.9	83	1.7	31.0	20.8
FS HiSOY	HS 24E30	E3	2.4	1-Oct	83	1.0	*72	76	89	35.1	18.8	--	--	--	--
FS HiSOY	HS 24F00	XF	2.4	1-Oct	79	1.0	*70	69	90	35.3	19.0	82	1.3	34.3	18.6
FS HiSOY	HS 25E30	E3	2.5	8-Oct	*87	1.0	*71	*80	*95	32.9	20.5	--	--	--	--
FS HiSOY	HS 26E20	E3	2.6	1-Oct	84	1.0	*71	77	91	32.8	20.5	--	--	--	--
FS HiSOY	HS 28E10	E3	2.8	1-Oct	*89	1.0	*77	*82	*96	33.9	19.4	*89	1.1	32.8	19.0
FS HiSOY	HS 28F30	XF	2.8	1-Oct	85	1.0	*70	76	93	33.6	19.8	--	--	--	--
Genesis	G2480E	E3	2.4	25-Sep	82	1.0	*71	75	90	34.1	20.3	--	--	--	--
Genesis	G2570ES	E3	2.5	1-Oct	*88	1.0	*69	*81	*95	33.3	20.1	*87	1.8	32.4	19.3
Genesis	G2780E	E3	2.7	1-Oct	85	1.0	*72	73	*96	33.4	20.0	--	--	--	--
Golden Harvest	GH2463E3 Brand	E3	2.4	1-Oct	*86	1.0	68	74	*98	33.8	19.9	--	--	--	--
Golden Harvest	GH2674E3 Brand	E3	2.6	1-Oct	80	1.0	*69	72	88	32.3	19.9	--	--	--	--
Golden Harvest	GH2884XF Brand	XF	2.8	8-Oct	79	1.0	*75	71	87	33.5	19.7	--	--	--	--
Jung	1245XF	XF	2.4	1-Oct	82	1.0	*73	78	86	32.7	19.8	--	--	--	--
Jung	1254XF	XF	2.5	1-Oct	83	1.0	62	73	94	34.6	19.4	85	1.3	33.0	19.2
Jung	1255XF	XF	2.5	1-Oct	*86	1.0	68	*79	94	33.3	20.1	--	--	--	--
Jung	1274XF	XF	2.7	1-Oct	78	1.0	*70	70	85	35.2	19.0	--	--	--	--
Jung	1287XF	XF	2.8	9-Oct	80	1.0	*73	75	84	33.5	19.6	--	--	--	--
LG Seeds	LGS2001E3	E3	2.0	1-Oct	78	1.0	*71	72	84	31.9	20.5	--	--	--	--
Loyal Brand	L1950E	E3	1.9	25-Sep	84	1.0	*76	77	91	32.9	20.4	--	--	--	--
Loyal Brand	L2130E	E3	2.1	1-Oct	83	1.0	*79	78	88	32.3	20.9	*90	1.3	31.8	20.3
Loyal Brand	L2150E	E3	2.1	25-Sep	78	1.0	*71	72	85	35.0	19.7	83	1.9	33.8	18.6
Loyal Brand	L2550E	E3	2.5	1-Oct	*86	1.0	64	*81	91	33.0	20.2	85	1.8	32.4	19.4

TABLE 2. CONTINUED. 2023 Southern Region Glyphosate Tolerant Soybean Trial (3 of 4)

Brand	Entry	Herbicide Trait ¹	Maturity Group	Maturity Date ²	2023 2-Test Average ³		2023 Yields			2023 Composition ²		2022 3-Test Average		2022 Composition ²	
					Yield (bu/A)	Lodging (1-5)	Arlington (bu/A)	Clinton (bu/A)	Platteville (bu/A)	Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
NK	NK19-T8E3S	E3	1.9	25-Sep	79	1.0	68	69	89	33.5	20.4	*87	1.7	33.3	19.3
NK	NK20-K2XF	XF	2.0	1-Oct	81	1.0	*70	76	86	32.9	20.8	--	--	--	--
NK	NK21-C2E3	E3	2.1	1-Oct	84	1.0	*75	76	93	34.2	19.7	--	--	--	--
NK	NK24-A2E3S	E3	2.4	26-Sep	83	1.0	*69	75	92	33.2	20.2	*87	1.8	32.9	19.1
NK	NK26-M6E3	E3	2.6	1-Oct	*87	1.0	65	*81	92	32.6	19.9	--	--	--	--
NK	NK28-B9E3S	E3	2.8	1-Oct	76	1.0	61	74	78	32.4	19.9	--	--	--	--
NK	NK28-P6XF	XF	2.8	1-Oct	80	1.0	*76	77	83	33.2	19.7	--	--	--	--
O'Brien	O'SOY2024EL-3	E3	2.0	1-Oct	83	1.0	*70	75	92	33.4	20.3	--	--	--	--
O'Brien	O'SOY2523EL-3	E3	2.5	1-Oct	84	1.0	*76	75	94	33.2	20.1	--	--	--	--
P3 Genetics	2322E	E3	2.2	25-Sep	76	1.0	59	71	81	35.2	19.4	85	1.7	33.7	19.1
P3 Genetics	2424E	E3	2.4	1-Oct	85	1.0	*76	78	92	33.0	19.7	--	--	--	--
P3 Genetics	2325E	E3	2.5	1-Oct	84	1.0	*78	*80	89	33.3	20.1	--	--	--	--
P3 Genetics	2326E	E3	2.6	5-Oct	79	1.0	66	72	85	33.3	20.3	*87	1.4	32.2	19.7
P3 Genetics	2429E	E3	2.9	1-Oct	80	1.0	66	77	82	32.8	19.7	--	--	--	--
Renk	RS253NXF	XF	2.5	1-Oct	83	1.0	*77	78	89	34.3	19.0	84	1.7	32.5	19.1
Stine	17EE32	E3	1.7	22-Sep	77	1.0	65	67	86	33.8	20.4	--	--	--	--
Stine	19EE62	E3	1.9	1-Oct	78	1.0	*75	74	83	32.8	20.4	*88	1.4	31.7	20.0
Stine	22EF23	E3	2.2	1-Oct	76	1.0	68	73	80	33.9	19.9	--	--	--	--
Stine	23EE06	E3	2.3	1-Oct	84	1.0	68	76	92	34.8	19.6	--	--	--	--
Stine	24EG23	E3	2.4	1-Oct	83	1.0	*70	78	88	32.6	19.9	--	--	--	--
Stine	25FD02	XF	2.5	1-Oct	83	1.0	66	*79	88	35.1	19.2	--	--	--	--
Stine	29EF02	E3	2.9	8-Oct	79	1.0	*75	73	85	33.0	19.6	--	--	--	--
Tracy	2253E	E3	2.2	5-Oct	83	1.0	*71	*79	87	35.2	19.7	--	--	--	--
Tracy	2453E	E3	2.4	1-Oct	80	1.0	*70	73	86	33.0	20.2	--	--	--	--
Tracy	2454E	E3	2.4	26-Sep	*87	1.0	*73	77	*96	32.8	19.9	--	--	--	--
Tracy	2654E	E3	2.6	1-Oct	80	1.0	67	75	85	32.6	20.5	--	--	--	--

TABLE 2. CONTINUED. 2023 Southern Region Glyphosate Tolerant Soybean Trial (4 of 4)

					2023 2-Test Average ³		2023 Yields			2023 Composition ²		2022 3-Test Average		2022 Composition ²		
Brand	Entry	Herbicide Trait ¹	Maturity Group	Maturity Date ²	Yield (bu/A)	Lodging (1-5)	Arlington (bu/A)	Clinton (bu/A)	Platteville (bu/A)	Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)	
Xitavo	XO 1822E	E3	1.8	25-Sep	77	1.0	*71	67	88	33.9	20.2	--	--	--	--	
Xitavo	XO 2181E	E3	2.1	1-Oct	85	1.0	*72	*83	87	32.7	20.8	*91	1.5	31.8	20.1	
Xitavo	XO 2282E	E3	2.2	1-Oct	78	1.0	*70	76	81	33.6	20.1	*88	1.3	32.5	19.5	
Xitavo	XO 2323E	E3	2.3	1-Oct	78	1.0	68	78	79	34.5	19.8	79	2.2	33.1	19.2	
Xitavo	XO 2444E	E3	2.4	1-Oct	78	1.0	*70	70	87	33.4	19.9	--	--	--	--	
Xitavo	XO 2501E	E3	2.5	1-Oct	*86	1.0	65	*83	90	33.0	21.0	85	2.1	31.8	20.5	
Xitavo	XO 2613E	E3	2.6	1-Oct	78	1.0	*75	78	79	33.8	19.6	*86	1.5	33.1	19.2	
Xitavo	XO 2832E	E3	2.8	5-Oct	*91	1.0	*72	78	*103	33.5	19.7	*93	1.5	33.3	18.7	
Xitavo	XO 2963E	E3	2.9	1-Oct	84	1.0	64	76	93	33.0	19.8	85	2.0	32.1	19.5	
				Mean	30-Sep	82	1.0	70	76	89	33.6	19.9	84	1.6	32.8	19.4
				LSD (0.10)	--	6	--	10	7	8	0.6	0.3	4	NS	0.5	0.4

* Yields preceded by an asterisk are not significantly different (0.10 level) than the highest yielding cultivar.

¹ Herbicide Trait : XF = dicamba/glufosinate/glyphosate, E3 = glufosinate/glyphosate/2,4-D

² Maturity date, protein, and oil determined at the Arlington site.

³ Due to high field variability at the Arlington location from drought conditions, only Clinton and Platteville were included in the multi-test yield average.

Results that are shaded provide the best estimate of relative variety performance.

TABLE 3. 2023 Central Region Glyphosate Tolerant Soybean Trial (1 of 4)

Brand	Entry	Herbicide Trait ¹	Maturity Group	Maturity Date ²	2023 3-Test Average		2023 Yields			2023 Composition ²		2022 3-Test Average ³		2022 Composition ⁴	
					Yield (bu/A)	Lodging (1-5)	Fond du Lac (bu/A)	Galesville (bu/A)	Wautoma (bu/A)	Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
Alloy	A16E34	E3	1.4	2-Oct	76	1.0	77	70	81	31.3	20.6	--	--	--	--
Apex	AE1930	E3	1.9	2-Oct	74	1.0	79	66	78	30.6	20.8	73	1.0	29.7	21.1
Apex	AE2220	E3	2.2	2-Oct	76	1.0	79	69	80	31.1	20.6	*74	1.1	31.4	20.9
Asgrow	AG15XF2	XF	1.5	25-Sep	76	1.0	74	*73	81	30.3	20.5	*74	1.0	30.2	20.6
Asgrow	AG18XF1	XF	1.8	2-Oct	*81	1.0	*80	*73	*91	30.8	20.6	*76	1.0	30.7	20.9
Asgrow	AG20XF1	XF	2.0	5-Oct	*78	1.0	*84	67	83	32.8	19.6	69	1.0	31.5	20.5
Asgrow	AG21XF2	XF	2.1	2-Oct	*82	1.0	*83	*78	*84	32.7	20.1	*75	1.0	31.4	20.8
BioGene	BG9164E3	E3	1.6	27-Sep	67	1.0	72	56	74	31.1	21.0	--	--	--	--
Dairyland	DSR-1505E	E3	1.5	20-Sep	*79	1.0	77	71	*90	33.4	19.7	*74	1.0	33.8	19.5
Dairyland	DSR-1788E	E3	1.7	27-Sep	77	1.0	*80	69	*84	33.1	20.7	--	--	--	--
Dairyland	DSR-1919E	E3	1.9	2-Oct	74	1.0	74	68	81	29.8	21.3	72	1.0	30.0	21.5
Dairyland	DSR-2188E	E3	2.1	2-Oct	77	1.0	79	71	82	30.0	21.2	*75	1.0	31.0	21.1
Dairyland	DSR-2310E	E3	2.3	7-Oct	73	1.0	69	66	83	32.8	20.1	--	--	--	--
Dairyland	DSR-2444E	E3	2.4	2-Oct	*81	1.0	*87	68	*89	30.5	20.1	--	--	--	--
Dyna-Gro	S16EN42	E3	1.6	27-Sep	*80	1.0	*80	71	*89	32.0	20.5	--	--	--	--
Dyna-Gro	S20EN84	E3	2.0	2-Oct	77	1.0	*80	70	81	30.4	21.3	--	--	--	--
Dyna-Gro	S20EN92	E3	2.0	2-Oct	*79	1.0	*85	68	83	31.6	20.4	*80	1.0	32.4	20.6
Dyna-Gro	S21EN81	E3	2.1	2-Oct	*80	1.0	*85	66	*90	29.6	21.3	*78	1.0	29.0	21.6
FS HiSOY	HS 12F30	XF	1.2	22-Sep	77	1.0	73	70	*89	32.6	20.2	--	--	--	--
FS HiSOY	HS 18E30	E3	1.8	2-Oct	77	1.0	*82	69	79	29.6	20.9	--	--	--	--
FS HiSOY	HS 18F20	XF	1.8	27-Sep	77	1.0	*80	71	81	31.1	20.5	*75	1.0	31.1	20.7
FS HiSOY	HS 21E20	E3	2.1	2-Oct	*79	1.0	*85	67	*86	31.3	20.4	--	--	--	--

TABLE 3. CONTINUED. 2023 Central Region Glyphosate Tolerant Soybean Trial (2 of 4)

Brand	Entry	Herbicide Trait ¹	Maturity Group	Maturity Date ²	2023 3-Test Average		2023 Yields			2023 Composition ²		2022 3-Test Average ³		2022 Composition ⁴	
					Yield (bu/A)	Lodging (1-5)	Fond du Lac (bu/A)	Galesville (bu/A)	Wautoma (bu/A)	Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
FS HiSOY	HS 23E10	E3	2.3	2-Oct	*79	1.0	*83	71	82	29.9	21.1	*76	1.2	28.9	22.1
FS HiSOY	HS 24E30	E3	2.4	5-Oct	77	1.0	*84	*73	73	32.4	19.9	--	--	--	--
FS HiSOY	HS 24F00	XF	2.4	2-Oct	73	1.0	*82	65	73	33.0	19.5	*80	1.0	32.1	20.0
Genesis	G1950E	E3	1.9	27-Sep	*78	1.0	*85	69	79	30.8	20.5	*74	1.0	32.0	20.2
Genesis	G2180E	E3	2.1	2-Oct	75	1.0	*80	67	80	31.7	20.8	--	--	--	--
Genesis	G2480E	E3	2.4	24-Sep	*78	1.0	*86	67	80	31.5	20.1	--	--	--	--
Golden Harvest	GH1614E3 Brand	E3	1.6	22-Sep	71	1.0	73	62	77	31.6	20.3	--	--	--	--
Golden Harvest	GH1973E3 Brand	E3	1.9	2-Oct	74	1.0	71	65	*87	30.6	20.6	--	--	--	--
Golden Harvest	GH2004XF Brand	XF	2.0	2-Oct	*78	1.0	78	71	*86	30.4	21.0	--	--	--	--
Golden Harvest	GH2292E3 Brand	E3	2.2	2-Oct	*81	1.0	*86	*72	*86	31.7	20.0	*75	1.0	33.2	19.9
Jung	1205XF	XF	2.0	7-Oct	*81	1.0	*86	*72	*85	30.2	20.1	--	--	--	--
Jung	1215XF	XF	2.1	2-Oct	77	1.0	*83	70	77	32.1	20.5	--	--	--	--
Jung	1227XF	XF	2.2	2-Oct	*78	1.0	*86	65	81	31.6	20.4	68	1.0	30.5	21.0
Legacy Seeds	LS124-23	XF	1.2	27-Sep	69	1.0	70	66	72	32.9	20.1	--	--	--	--
Legacy Seeds	LS154-22	XF	1.5	27-Sep	*80	1.0	*80	69	*89	31.1	20.7	*75	1.0	30.2	21.0
Legacy Seeds	LS174-23	XF	1.7	27-Sep	73	1.0	78	68	73	31.1	21.1	--	--	--	--
Legacy Seeds	LS184-21	XF	1.8	2-Oct	*79	1.0	*82	*73	81	31.0	20.6	72	1.0	30.4	21.2
Legacy Seeds	LS194-23	XF	1.9	2-Oct	*81	1.0	*84	*74	*84	30.5	20.7	--	--	--	--
LG Seeds	LGS1385XF	XF	1.3	25-Sep	*81	1.0	*83	*75	*85	32.9	19.8	--	--	--	--
LG Seeds	LGS1939E3	E3	1.9	2-Oct	74	1.0	75	60	*89	30.5	20.5	*77	1.0	30.9	20.7
LG Seeds	LGS2001E3	E3	2.0	2-Oct	*80	1.0	*82	*72	*87	30.1	20.6	--	--	--	--
LG Seeds	LGS2025XF	XF	2.0	7-Oct	76	1.0	75	*75	80	32.3	20.1	73	1.0	32.5	20.4

TABLE 3. CONTINUED. 2023 Central Region Glyphosate Tolerant Soybean Trial (3 of 4)

Brand	Entry	Herbicide Trait ¹	Maturity Group	Maturity Date ²	2023 3-Test Average		2023 Yields			2023 Composition ²		2022 3-Test Average ³		2022 Composition ⁴	
					Yield (bu/A)	Lodging (1-5)	Fond du Lac (bu/A)	Galesville (bu/A)	Wautoma (bu/A)	Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
Loyal Brand	L1540E	E3	1.5	27-Sep	*78	1.0	*82	68	*85	31.5	20.7	*76	1.0	31.1	20.8
Loyal Brand	L1660E	E3	1.6	27-Sep	*78	1.0	78	*74	81	31.9	20.6	--	--	--	--
Loyal Brand	L1730E	E3	1.7	27-Sep	*81	1.0	*84	*72	*86	31.6	20.5	71	1.0	33.4	19.9
Loyal Brand	L1950E	E3	1.9	2-Oct	*79	1.0	*80	65	*90	30.5	20.5	68	1.0	29.6	21.2
Loyal Brand	L2130E	E3	2.1	25-Sep	*78	1.0	*81	66	*86	30.0	21.1	*75	1.0	30.1	21.2
Loyal Brand	L2150E	E3	2.1	27-Sep	75	1.0	*80	63	83	32.7	20.0	*75	1.1	32.9	19.9
NK	NK11-A4E3	E3	1.1	22-Sep	*81	1.0	*81	*74	*87	31.5	20.9	--	--	--	--
NK	NK11-U2XF	XF	1.1	22-Sep	*80	1.0	*80	*75	*85	32.3	20.4	--	--	--	--
NK	NK16-Z6E3	E3	1.6	27-Sep	75	1.0	76	66	82	31.0	20.4	--	--	--	--
NK	NK18-D1XF	XF	1.8	27-Sep	77	1.0	*80	*73	77	32.6	20.6	--	--	--	--
NK	NK19-T8E3S	E3	1.9	27-Sep	74	1.0	75	63	*86	31.0	20.7	71	1.0	31.7	20.5
NK	NK20-K2XF	XF	2.0	27-Sep	*78	1.0	79	*72	83	31.1	20.7	--	--	--	--
NK	NK21-C2E3	E3	2.1	2-Oct	*83	1.0	*83	*77	*88	31.7	20.0	--	--	--	--
NK	NK24-A2E3S	E3	2.4	2-Oct	*80	1.0	*86	69	*86	31.0	20.4	*79	1.2	30.5	20.7
O'Brien	O'SOY1524EL-3	E3	1.5	27-Sep	73	1.0	70	66	82	31.9	20.5	--	--	--	--
O'Brien	O'SOY2024EL-3	E3	2.0	2-Oct	73	1.0	79	64	77	29.8	20.8	--	--	--	--
O'Brien	O'SOY2523EL-3	E3	2.5	2-Oct	*81	1.0	*88	65	*89	30.9	20.5	--	--	--	--
Renk	RS194XF	XF	1.9	2-Oct	*83	1.0	*86	*76	*86	31.2	20.5	--	--	--	--
Stine	15EE32	E3	1.5	27-Sep	76	1.0	*83	65	80	31.5	20.6	--	--	--	--
Stine	17EE32	E3	1.7	2-Oct	*78	1.0	79	68	*87	31.1	20.7	--	--	--	--
Stine	19EC12	E3	1.9	27-Sep	*80	1.0	*80	70	*91	29.8	21.2	*75	1.0	30.0	21.1
Stine	19EE62	E3	1.9	27-Sep	77	1.0	78	65	*87	30.3	20.6	*79	1.1	30.2	20.9
Stine	22EF23	E3	2.2	2-Oct	*80	1.0	*83	70	*88	31.6	20.4	--	--	--	--

TABLE 3. CONTINUED. 2023 Central Region Glyphosate Tolerant Soybean Trial (4 of 4)

Brand	Entry	Herbicide Trait ¹	Maturity Group	Maturity Date ²	2023 3-Test Average		2023 Yields			2023 Composition ²		2022 3-Test Average ³		2022 Composition ⁴	
					Yield (bu/A)	Lodging (1-5)	Fond du Lac (bu/A)	Galesville (bu/A)	Wautoma (bu/A)	Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
Tracy	1654E	E3	1.6	27-Sep	77	1.0	79	*73	78	31.7	20.7	--	--	--	--
Tracy	1854E	E3	1.8	27-Sep	76	1.0	*82	64	83	30.3	21.2	--	--	--	--
Tracy	2153E	E3	2.1	2-Oct	71	1.0	79	62	72	33.1	19.7	--	--	--	--
Xitavo	XO 1133E	E3	1.1	25-Sep	71	1.0	72	63	77	31.2	20.2	--	--	--	--
Xitavo	XO 1212E	E3	1.2	27-Sep	75	1.0	*81	66	80	33.4	20.0	73	1.0	32.6	20.6
Xitavo	XO 1372E	E3	1.3	22-Sep	76	1.0	78	65	*84	30.8	21.5	68	1.0	29.3	21.9
Xitavo	XO 1404E	E3	1.4	27-Sep	73	1.0	76	67	77	31.7	20.3	--	--	--	--
Xitavo	XO 1632E	E3	1.6	27-Sep	*80	1.0	*82	*72	*86	32.4	20.0	--	--	--	--
Xitavo	XO 1822E	E3	1.8	27-Sep	*79	1.0	74	*73	*90	31.7	20.4	72	1.0	30.9	21.0
Xitavo	XO 2181E	E3	2.1	2-Oct	*80	1.0	*82	70	*89	30.2	20.9	71	1.0	29.9	21.2
Xitavo	XO 2282E	E3	2.2	2-Oct	*80	1.0	*84	68	*89	31.0	20.5	*76	1.1	31.4	20.8
Xitavo	XO 2323E	E3	2.3	2-Oct	*79	1.0	*84	71	81	31.4	20.1	73	1.2	31.2	20.8
Xitavo	XO 2444E	E3	2.4	7-Oct	*79	1.0	*81	71	*85	30.7	20.4	--	--	--	--
Mean				29-Sep	77	1.0	80	69	83	31.3	20.5	73	1.0	31.3	20.8
LSD (0.10)				--	5	--	8	6	7	0.8	0.4	6	--	0.9	0.4

* Yields preceded by an asterisk are not significantly different (0.10 level) than the highest yielding cultivar.

¹ Herbicide Trait : XF = dicamba/glufosinate/glyphosate, E3 = glufosinate/glyphosate/2,4-D

² Maturity date, protein, and oil determined at the Fond du Lac site in 2023.

³ The three locations in 2022 included Fond du Lac, Galesville, and Hancock.

⁴ Protein and oil determined at the Hancock site in 2022.

Results that are shaded provide the best estimate of relative variety performance.

TABLE 4. 2023 North Central Region Glyphosate Tolerant Soybean Trial (1 of 3)

Brand	Entry	Herbicide Trait ¹	Maturity Group	Maturity Date ²	2023 3-Test Average		2023 Yields				2023 Composition ²		2022 3-Test Average		2022 Composition ²	
					Yield (bu/A)	Lodging (1-5)	Marshfield (bu/A)	Menomonic (bu/A)	Seymour (bu/A)	WM% ³	Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
Alloy	A16E34	E3	1.4	25-Sep	*74	1.0	*63	*84	74	20	35.0	18.3	--	--	--	--
Apex	AE1220	E3	1.2	25-Sep	71	1.0	61	75	76	15	36.2	18.2	*67	1.0	34.3	19.2
Apex	AE1410	E3	1.4	18-Sep	70	1.0	59	77	74	13	34.1	19.0	*68	1.0	32.2	20.2
Apex	AE1710	E3	1.7	20-Sep	72	1.0	*64	79	74	15	34.5	18.3	*68	1.0	32.6	19.5
Asgrow	AG11XF4	XF	1.1	18-Sep	68	1.0	59	77	68	39	35.0	18.2	--	--	--	--
Asgrow	AG15XF2	XF	1.5	25-Sep	72	1.0	56	*83	75	15	35.4	17.9	*68	1.0	32.1	19.4
Asgrow	AG18XF1	XF	1.8	28-Sep	70	1.0	60	81	69	35	35.0	18.3	*67	1.0	31.8	19.9
Asgrow	AG20XF1	XF	2.0	1-Oct	72	1.0	58	*87	71	20	34.6	18.3	--	--	--	--
BioGene	BG9124E3	E3	1.2	11-Sep	69	1.0	59	72	76	3	35.5	18.5	--	--	--	--
BioGene	BG9164E3	E3	1.6	25-Sep	67	1.0	54	77	68	20	34.4	19.0	--	--	--	--
Dairyland	DSR-0757E	E3	0.7	11-Sep	65	1.0	58	71	66	29	34.0	18.9	53	1.0	31.2	20.2
Dairyland	DSR-0920E	E3	0.9	20-Sep	70	1.0	*62	75	72	40	35.9	18.1	63	1.0	33.9	18.9
Dairyland	DSR-1290E	E3	1.2	11-Sep	*76	1.3	*64	82	*82	8	33.9	18.8	63	1.0	31.0	20.6
Dairyland	DSR-1450E	E3	1.4	20-Sep	*76	1.0	*65	*89	75	28	34.3	18.9	65	1.0	31.9	20.4
Dairyland	DSR-1505E	E3	1.5	20-Sep	*73	1.0	61	80	77	14	36.8	17.4	*68	1.0	34.2	18.8
Dairyland	DSR-1788E	E3	1.7	20-Sep	71	1.0	59	81	72	16	36.7	18.1	--	--	--	--
Genesis	G1260E	E3	1.2	25-Sep	*74	1.0	*65	77	79	0	36.1	18.3	*67	1.0	34.5	19.1
Genesis	G1560E	E3	1.5	20-Sep	*73	1.0	61	*87	71	40	35.8	17.8	*69	1.0	32.7	19.7
Genesis	G1760E	E3	1.7	20-Sep	66	1.0	59	78	61	83	36.1	17.5	65	1.0	32.1	20.0
Golden Harvest	GH1472E3 Brand	E3	1.4	18-Sep	72	1.0	*63	*83	71	41	36.6	17.9	65	1.0	33.4	19.6
Golden Harvest	GH1534E3 Brand	E3	1.5	18-Sep	70	1.0	59	78	73	17	34.3	18.7	--	--	--	--
Golden Harvest	GH1762XF Brand	XF	1.7	20-Sep	*76	1.0	*62	*93	72	23	34.9	18.4	65	1.0	33.1	19.4
Jung	1105XF	XF	1.0	18-Sep	*73	1.0	59	82	77	4	35.6	18.1	--	--	--	--
Jung	1123XF	XF	1.2	18-Sep	69	1.0	*62	74	72	9	34.7	18.8	--	--	--	--
Jung	1156XF	XF	1.5	20-Sep	*73	1.0	59	80	*80	9	35.7	17.8	--	--	--	--
Jung	1194XF	XF	1.9	25-Sep	71	1.0	56	*86	71	27	34.4	18.9	--	--	--	--

TABLE 4. CONTINUED. 2023 North Central Region Glyphosate Tolerant Soybean Trial (2 of 3)

Brand	Entry	Herbicide Trait ¹	Maturity Group	Maturity Date ²	2023 3-Test Average		2023 Yields				2023 Composition ²		2022 3-Test Average		2022 Composition ²	
					Yield (bu/A)	Lodging (1-5)	Marshfield (bu/A)	Menomonie (bu/A)	Seymour (bu/A)	WM% ³	Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
Legacy Seeds	LS124-23	XF	1.2	18-Sep	71	1.0	57	*83	73	2	35.2	18.3	--	--	--	--
Legacy Seeds	LS154-22	XF	1.5	25-Sep	72	1.0	60	81	75	31	34.7	18.4	64	1.0	31.5	20.0
Legacy Seeds	LS174-23	XF	1.7	20-Sep	68	1.0	58	76	71	26	34.7	18.7	--	--	--	--
Legacy Seeds	LS184-21	XF	1.8	25-Sep	68	1.0	57	*84	63	35	34.9	18.6	65	1.0	31.8	20.0
Legacy Seeds	LS194-23	XF	1.9	1-Oct	*74	1.0	*62	*85	74	40	33.8	18.7	--	--	--	--
LG Seeds	LGS1551E3	E3	1.5	25-Sep	71	1.0	59	82	71	23	34.1	18.8	--	--	--	--
LG Seeds	LGS1585XF	XF	1.5	25-Sep	71	1.0	61	78	75	35	33.9	18.7	*66	1.0	33.2	19.1
LG Seeds	LGS1832E3	E3	1.8	25-Sep	*73	1.0	*62	*83	73	12	33.1	19.5	--	--	--	--
Loyal Brand	L1160E	E3	1.1	18-Sep	68	1.0	*62	61	78	1	35.7	18.6	--	--	--	--
Loyal Brand	L1230E	E3	1.2	11-Sep	*79	1.3	61	*87	*87	5	33.3	19.1	64	1.0	31.0	20.6
Loyal Brand	L1260E	E3	1.2	18-Sep	70	1.0	60	74	74	8	35.1	18.6	--	--	--	--
Loyal Brand	L1540E	E3	1.5	20-Sep	*73	1.0	60	82	76	58	35.5	18.0	*70	1.0	32.5	19.9
Loyal Brand	L1660E	E3	1.6	25-Sep	72	1.2	59	79	78	14	35.1	18.2	--	--	--	--
Loyal Brand	L1730E	E3	1.7	25-Sep	*74	1.0	*62	82	78	22	34.3	18.5	*67	1.0	32.1	19.7
Loyal Brand	L1950E	E3	1.9	25-Sep	69	1.0	60	75	72	4	34.5	18.3	64	1.0	31.3	20.2
NK	NK11-A4E3	E3	1.1	20-Sep	71	1.0	60	75	79	3	34.1	19.1	--	--	--	--
NK	NK11-U2XF	XF	1.1	18-Sep	*75	1.0	59	*88	78	10	37.1	17.7	--	--	--	--
NK	NK16-Z6E3	E3	1.6	20-Sep	70	1.0	61	75	72	38	35.5	18.1	--	--	--	--
NK	NK18-D1XF	XF	1.8	25-Sep	68	1.0	54	*85	65	35	35.7	18.6	--	--	--	--
O'Brien	O'SOY1524EL-3	E3	1.5	25-Sep	*74	1.0	60	81	*82	13	35.0	18.3	--	--	--	--
O'Brien	O'SOY2024EL-3	E3	2.0	1-Oct	69	1.0	57	77	72	14	33.4	18.9	--	--	--	--
Renk	RS153NXF	XF	1.5	20-Sep	*73	1.0	*62	81	76	11	34.6	18.7	*66	1.0	31.5	20.0
Stine	11EC02	E3	1.1	18-Sep	*75	1.7	*64	80	*81	14	34.0	18.9	*68	1.0	31.2	20.6
Stine	15EE32	E3	1.5	25-Sep	69	1.0	59	80	69	38	36.1	17.5	--	--	--	--
Stine	17EE32	E3	1.7	20-Sep	64	1.0	56	*84	53	76	36.1	17.7	*71	1.0	32.4	19.8

TABLE 4. CONTINUED. 2023 North Central Region Glyphosate Tolerant Soybean Trial (3 of 3)

Brand	Entry	Herbicide Trait ¹	Maturity Group	Maturity Date ²	2023 3-Test Average		2023 Yields				2023 Composition ²		2022 3-Test Average		2022 Composition ²	
					Yield (bu/A)	Lodging (1-5)	Marshfield (bu/A)	Menomonie (bu/A)	Seymour (bu/A)	WM% ³	Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
Xitavo	X0 0993E	E3	0.9	11-Sep	67	1.0	57	75	69	9	35.7	18.2	59	1.0	32.3	20.2
Xitavo	X0 1133E	E3	1.1	20-Sep	65	1.0	60	78	57	43	35.3	17.6	--	--	--	--
Xitavo	X0 1212E	E3	1.2	25-Sep	*73	1.0	*64	79	78	4	35.7	18.3	62	1.0	34.4	19.0
Xitavo	X0 1372E	E3	1.3	18-Sep	*76	1.2	*64	81	*82	24	34.4	19.0	65	1.0	31.8	20.4
Xitavo	X0 1404E	E3	1.4	20-Sep	66	1.0	57	71	69	23	35.2	18.0	--	--	--	--
Xitavo	X0 1632E	E3	1.6	20-Sep	70	1.0	58	*87	65	68	35.5	18.0	*71	1.0	32.8	19.7
Xitavo	X0 1822E	E3	1.8	25-Sep	68	1.3	57	*83	65	73	35.4	17.8	*70	1.0	32.0	19.8
Mean				21-Sep	71	1.0	60	80	73	24	35.0	18.4	64	1.0	32.5	19.7
LSD (0.10)				--	6	NS	3	10	7	24	0.6	0.3	5	--	0.5	0.2

* Yields preceded by an asterisk are not significantly different (0.10 level) than the highest yielding cultivar.

¹ Herbicide Trait : XF = dicamba/glufosinate/glyphosate, E3 = glufosinate/glyphosate/2,4-D

² Maturity date, protein, and oil determined at the Marshfield site.

³ WM% = White mold expressed as percent of diseased plants.

Results that are shaded provide the best estimate of relative variety performance.

TABLE 5. 2023 Northern Region Glyphosate Tolerant Soybean Trial (1 of 2)

Brand	Entry	Herbicide Trait ¹	Maturity Group	2023 3-Test Average			2023 Yields			2023 Composition ²		2022 3-Test Average		2022 Composition ²	
				Maturity Date	Yield (bu/A)	Lodging (1-5)	Marshfield (bu/A)	Spooner Dryland (bu/A)	Spooner Irrigated (bu/A)	Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
Apex	AE0720	E3	0.7	23-Sep	51	1.0	*66	*39	49	35.3	18.0	60	1.0	33.5	19.0
Apex	AE0930	E3	0.9	24-Sep	51	1.0	57	*47	48	34.9	18.7	--	--	--	--
Apex	AE1040	E3	1.0	28-Sep	50	1.0	60	*42	49	34.5	18.5	--	--	--	--
Apex	AE1220	E3	1.2	2-Oct	*53	1.0	*63	*42	54	36.1	18.4	*61	1.0	34.4	19.1
Asgrow	AG07XF4	XF	0.7	27-Sep	51	1.0	*63	36	52	35.3	18.4	--	--	--	--
Asgrow	AG08XF4	XF	0.8	25-Sep	49	1.0	*63	36	49	34.7	19.1	--	--	--	--
Asgrow	AG09XF3	XF	0.9	28-Sep	51	1.0	61	*39	52	34.2	18.0	58	1.0	31.7	19.2
Asgrow	AG11XF4	XF	1.1	29-Sep	50	1.0	58	*41	51	35.1	18.2	--	--	--	--
Dairyland	DSR-0757E	E3	0.7	30-Sep	49	1.0	62	32	53	33.7	19.2	56	1.0	30.8	20.3
Dairyland	DSR-0920E	E3	0.9	30-Sep	*54	1.0	*64	*46	52	35.6	18.6	59	1.0	34.1	19.1
Dairyland	DSR-1290E	E3	1.2	29-Sep	*57	1.0	*64	*44	*62	34.1	19.2	--	--	--	--
Genesis	G0880E	E3	0.8	24-Sep	50	1.0	57	*41	51	35.6	18.5	--	--	--	--
Genesis	G1260E	E3	1.2	3-Oct	52	1.0	*64	*40	51	36.2	18.3	--	--	--	--
Golden Harvest	GH1194E3 Brand	E3	1.1	1-Oct	50	1.0	59	34	56	34.3	19.1	--	--	--	--
Jung	1072R2X	RR2X	0.7	24-Sep	50	1.0	*63	38	50	34.1	18.9	58	1.0	32.1	19.6
Jung	1073XF	XF	0.7	26-Sep	47	1.0	58	31	53	35.4	18.9	--	--	--	--
Jung	1093XF	XF	0.9	28-Sep	50	1.0	59	37	54	35.3	18.9	--	--	--	--
Jung	1104XF	XF	1.0	29-Sep	49	1.0	59	38	50	36.3	18.3	58	1.0	33.7	19.8
Legacy Seeds	LS124-23	XF	1.2	28-Sep	46	1.0	60	32	47	36.0	18.1	--	--	--	--
Legacy Seeds	LS154-22	XF	1.5	2-Oct	52	1.0	61	*40	55	34.6	18.7	--	--	--	--
LG Seeds	LGS1043E3	E3	1.0	1-Oct	48	1.0	59	35	51	35.8	17.6	--	--	--	--
LG Seeds	LGS1385XF	XF	1.3	1-Oct	52	1.0	59	*43	53	34.9	18.2	*61	1.0	33.5	19.2

TABLE 5. CONTINUED. 2023 Northern Region Glyphosate Tolerant Soybean Trial (2 of 2)

Brand	Entry	Herbicide Trait ¹	Maturity Group	2023 3-Test Average			2023 Yields			2023 Composition ²		2022 3-Test Average		2022 Composition ²	
				Maturity Date	Yield (bu/A)	Lodging (1-5)	Marshfield (bu/A)	Spooner Dryland (bu/A)	Spooner Irrigated (bu/A)	Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
Loyal Brand	L0860E	E3	0.8	23-Sep	51	1.0	59	*41	53	35.8	18.2	--	--	--	--
Loyal Brand	L1050E	E3	1.0	1-Oct	51	1.0	62	38	53	35.8	17.5	59	1.0	33.0	19.1
Loyal Brand	L1160E	E3	1.1	26-Sep	50	1.0	60	36	53	34.8	19.0	--	--	--	--
Loyal Brand	L1230E	E3	1.2	29-Sep	52	1.0	*64	36	56	33.8	19.1	*61	1.0	30.5	20.9
Loyal Brand	L1260E	E3	1.2	26-Sep	49	1.0	58	*40	49	35.4	18.7	--	--	--	--
NK	NK03-J1XF	XF	0.3	21-Sep	48	1.0	*63	30	51	34.7	19.1	--	--	--	--
NK	NK04-A9E3	E3	0.4	23-Sep	48	1.0	*63	31	52	35.1	18.3	--	--	--	--
NK	NK07-B1XF	XF	0.7	26-Sep	51	1.0	61	37	54	32.9	19.3	--	--	--	--
NK	NK07-G5E3	E3	0.7	26-Sep	48	1.0	57	34	52	34.6	18.5	--	--	--	--
NK	NK11-A4E3	E3	1.1	2-Oct	52	1.0	*63	36	*57	33.8	19.3	--	--	--	--
NK	NK11-U2XF	XF	1.1	29-Sep	50	1.0	60	38	53	37.7	17.5	--	--	--	--
Stine	08EC32	E3	0.8	26-Sep	49	1.0	61	34	51	35.9	18.4	--	--	--	--
Stine	10EF23	E3	1.0	25-Sep	48	1.0	57	34	52	35.4	18.4	--	--	--	--
Stine	11EC02	E3	1.1	28-Sep	*55	1.0	*66	*42	56	33.5	19.3	*65	1.0	30.9	20.6
Xitavo	X0 0554E	E3	0.5	29-Sep	48	1.0	59	32	54	34.2	19.1	--	--	--	--
Xitavo	X0 0602E	E3	0.6	25-Sep	51	1.0	*65	36	53	35.5	17.9	--	--	--	--
Xitavo	X0 0993E	E3	0.9	25-Sep	48	1.0	58	34	52	35.7	18.5	58	1.0	32.4	20.0
Xitavo	X0 1133E	E3	1.1	1-Oct	49	1.0	59	37	50	35.6	17.5	--	--	--	--
Xitavo	X0 1212E	E3	1.2	3-Oct	51	1.0	*63	37	54	36.7	18.1	--	--	--	--
Mean				27-Sep	50	1.0	61	37	52	35.1	18.5	58	1.0	33.0	19.5
LSD (0.10)				--	4	--	3	8	5	0.6	0.4	4	--	0.5	0.2

* Yields preceded by an asterisk are not significantly different (0.10 level) than the highest yielding cultivar.

¹ Herbicide Trait : RR2X = dicamba/glyphosate, XF = dicamba/glufosinate/glyphosate, E3 = glufosinate/glyphosate/2,4-D

² Protein and oil determined at the Marshfield site.

Results that are shaded provide the best estimate of relative variety performance.

TABLE 6. 2023 Southern Conventional Soybean Trial

					2023		2023		2023		2022		2022	
					2-Test Average		Yields		Composition ²		2-Test Average		Composition ²	
Brand	Entry	Herbicide Trait ¹	Maturity Group	Maturity Date ²	Yield (bu/A)	Lodging (1-5)	Arlington (bu/A)	Platteville (bu/A)	Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
Blue River/Viking	BR 1718N	CN	1.7	1-Oct	76	1.0	76	77	32.4	20.4	*84	1.3	32.8	19.9
Blue River/Viking	BR 2155N	CN	2.1	1-Oct	*85	1.1	79	*91	34.8	18.8	*82	2.3	33.3	18.2
Blue River/Viking	BR 2418N	CN	2.4	1-Oct	84	1.0	80	*88	33.6	19.1	77	1.8	32.4	19.0
Blue River	BR 2702	CN	2.7	1-Oct	76	1.2	71	82	35.2	19.9	70	2.6	34.0	19.9
Legacy Seeds	DF 187 N	CN	1.8	1-Oct	77	1.0	72	83	34.6	19.0	71	2.4	34.9	18.5
Legacy Seeds	LS191-23C	CN	1.9	1-Oct	80	1.0	73	*86	33.1	20.0	--	--	--	--
Legacy Seeds	LS231-21C	CN	2.3	5-Oct	81	1.0	77	84	33.3	20.1	*79	1.4	31.8	19.7
Public	MN1410	CN	1.4	20-Sep	68	1.6	61	75	34.7	20.4	67	2.4	34.7	19.6
Public	W19-2484	CN	1.5	26-Sep	56	1.4	53	60	36.4	18.3	60	2.1	35.4	18.6
Public	W19-1190	CN	2.5	1-Oct	60	1.0	61	59	35.0	18.6	62	1.8	34.3	18.6
Public	W16-5282B	CN	2.6	1-Oct	74	1.0	75	73	35.7	18.7	68	1.8	34.9	19.1
Public	W19-11321 ³	CN	2.8	1-Oct	62	1.5	58	65	.	.	56	2.9	.	.
SB&B	SB1270	CN	1.2	19-Sep	75	1.1	73	78	35.0	19.9	70	2.1	33.9	19.8
SB&B	SB19	CN	1.5	19-Sep	72	2.2	68	77	34.4	19.8	65	2.4	33.8	19.2
Viking	VK 2022N	CN	2.0	1-Oct	83	1.0	75	*91	32.1	20.7	*88	1.5	32.2	20.5
Viking	VK 2340KN	CN	2.3	27-Sep	81	1.0	74	*88	32.7	20.4	76	1.5	32.4	20.1
Viking	VK 2724	CN	2.7	1-Oct	83	1.0	75	*90	32.7	19.7	--	--	--	--
Virtue	V1821	CN	1.8	23-Sep	74	1.0	70	78	34.2	19.5	78	1.3	33.5	19.2
Virtue	V2122	CN	2.1	25-Sep	77	1.0	71	83	33.8	20.2	75	1.8	32.7	20.5
Virtue	V2922	CN	2.9	1-Oct	*91	1.5	*89	*92	32.4	20.7	--	--	--	--
Check	12238	E3	1.9	24-Sep	82	1.0	78	*87	32.6	20.4	--	--	--	--
Check	11953	E3	2.1	23-Sep	83	1.0	77	*88	32.1	20.7	*88	1.6	31.9	20.5
Check	12169	E3	2.2	1-Oct	78	1.0	75	80	33.2	20.0	--	--	--	--
Results that are shaded provide the best estimate of relative variety performance.			Mean	28-Sep	76	1.2	72	81	33.8	19.8	74	1.9	33.6	19.5
			LSD (0.10)	--	6	NS	7	8	0.6	0.3	13	NS	0.6	0.4

* Yields preceded by an asterisk are not significantly different (0.10 level) than the highest yielding cultivar. ¹ Herbicide Trait : CN = conventional, E3 = glufosinate/glyphosate/2,4-D

² Maturity date, protein, and oil determined at the Arlington site. ³ This variety has a black seed coat, therefore we were unable to determine protein and oil content with our NIR.

TABLE 7. 2023 North Central Conventional Soybean Trial

Brand	Entry	Herbicide Trait ¹	Maturity Group	2023 Menomonie					2022 Menomonie			
				Maturity Date	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
Blue River/Viking	BR 0821N	CN	0.8	21-Sep	69	2.3	34.3	19.2	47	1.0	31.0	20.7
Blue River	BR 1202N	CN	1.2	14-Sep	62	1.0	35.1	19.8	49	1.0	33.9	19.2
Blue River/Viking	BR 1518N	CN	1.5	14-Sep	63	1.6	35.2	18.7	*50	1.0	31.4	20.1
Blue River/Viking	BR 1718N	CN	1.7	19-Sep	52	2.0	33.1	18.9	*58	1.0	30.2	20.6
Legacy Seeds	LS121-22C	CN	1.2	14-Sep	80	1.0	32.5	20.1	*53	1.0	29.1	21.0
Legacy Seeds	LS151-21C	CN	1.5	23-Sep	79	1.0	32.6	19.5	*50	1.0	30.2	20.4
Legacy Seeds	DF 187 N	CN	1.8	4-Oct	*82	1.0	34.9	18.5	*52	1.0	31.7	19.8
Legacy Seeds	LS191-23C	CN	1.9	21-Sep	76	1.0	32.9	19.8	--	--	--	--
Public	MN1410	CN	1.4	18-Sep	53	3.5	35.2	19.5	45	1.0	31.7	21.0
Public	W19-2484	CN	1.5	30-Sep	61	1.0	36.1	18.1	--	--	--	--
SB&B	SB49	CN	0.4	12-Sep	66	2.3	38.5	18.1	35	1.0	35.1	19.5
SB&B	SB700	CN	0.7	16-Sep	63	3.8	34.5	19.5	36	1.0	34.5	19.7
SB&B	SB1270	CN	1.2	18-Sep	67	2.8	34.8	19.5	45	1.0	32.0	20.6
SB&B	SB19	CN	1.5	12-Sep	49	3.3	34.5	19.0	49	1.0	31.7	19.9
Viking	VK 1223N	CN	1.2	14-Sep	79	1.8	32.1	20.1	*50	1.0	29.0	21.0
Check	12170	E3	1.1	16-Sep	*88	3.5	32.0	20.6	--	--	--	--
Check	12041	E3	1.6	23-Sep	79	1.0	33.4	20.1	--	--	--	--
Check	12043	E3	1.8	21-Sep	*82	1.5	33.3	20.0	--	--	--	--
Mean				18-Sep	69	2.0	34.2	19.4	48	1.0	32.0	20.3
LSD (0.10)				--	7	1.0	0.7	0.3	8	--	1.2	0.5

* Yields preceded by an asterisk are not significantly different (0.10 level) than the highest yielding cultivar.

¹ Herbicide Trait : CN = conventional, E3 = glufosinate/glyphosate/2,4-D

Results that are shaded provide the best estimate of relative variety performance.

TABLE 8. 2023 Arlington Early Maturity Group Soybean Trial

Brand	Entry	Herbicide Trait ¹	Maturity Group	2023 Arlington				
				Maturity Date	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
BioGene	BG9124E3	E3	1.2	19-Sep	75	1.0	33.8	20.3
Legacy Seeds	LS124-23	XF	1.2	23-Sep	76	1.0	33.8	19.8
Legacy Seeds	LS154-22	XF	1.5	26-Sep	*78	1.0	32.7	20.0
Loyal Brand	L1050E	E3	1.0	15-Sep	*83	1.0	33.5	19.6
Loyal Brand	L1230E	E3	1.2	15-Sep	*80	1.0	33.4	20.3
Loyal Brand	L1260E	E3	1.2	15-Sep	68	1.0	34.1	20.3
Stine	10EF23	E3	1.0	13-Sep	72	1.0	33.6	20.4
Stine	11EC02	E3	1.1	19-Sep	*86	1.0	33.3	20.1
Xitavo	XO 0602E	E3	0.6	20-Sep	*78	1.0	34.9	18.9
Xitavo	XO 0993E	E3	0.9	11-Sep	66	1.0	33.2	20.5
Xitavo	XO 1133E	E3	1.1	20-Sep	*84	1.0	33.6	19.5
Xitavo	XO 1212E	E3	1.2	25-Sep	*78	1.0	35.5	18.9
Xitavo	XO 1372E	E3	1.3	22-Sep	*81	1.0	33.3	20.5
Xitavo	XO 1404E	E3	1.4	22-Sep	76	1.0	34.6	19.0
Mean				18-Sep	77	1.0	33.8	19.9
LSD (0.10)				--	9	--	0.7	0.3

* Yields preceded by an asterisk are not significantly different (0.10 level) than the highest yielding cultivar.

¹ Herbicide Trait : XF = dicamba/glufosinate/glyphosate, E3 = glufosinate/glyphosate/2,4-D

Results that are shaded provide the best estimate of relative variety performance.

TABLE 8.
2023 Seed Source for
Soybean Entries

Brand	Company	Phone Number	Website
Alloy	Bayer Crop Science	(715) 495-7246	www.agseedselect.com
Apex	Brunner Seed Inc.	(715) 672-5887	www.brunnerseed.com
Asgrow	Bayer Crop Science	(715) 495-7246	www.agseedselect.com
BioGene	Van Treeck's Seed Farm	(920) 467-2422	www.biogeneseeds.com
Blue River	Albert Lea Seed	(800) 352-5247	www.alseed.com
Burrus	Burrus Bros & Associated Growers	(815) 338-1141	www.burrusseed.com
Cornelius	Cornelius Seed	(563) 542-0975	www.corneliusseed.com
Dairyland	Dairyland Seed	(217) 972-9839	www.dairylandseed.com
DONMARIO	Burrus Bros & Associated Growers	(815) 338-1141	www.burrusseed.com
Dyna-Gro	Dyna-Gro Seed	(217) 343-3630	www.dynagroseed.com
FS HiSOY	GROWMARK, Inc.	(815) 866-1447	www.growmark.com
Genesis	MS Technologies	(608) 513-0293	www.renkseed.com
Golden Harvest	Golden Harvest	(402) 429-9063	www.goldenharvestseeds.com
Jung	Bayer Crop Science	(515) 205-3354	www.jungseedgenetics.com
Legacy Seeds	Legacy Seeds Inc.	(715) 538-3238	www.legacyseeds.com
LG Seeds	LG Seeds	(608) 606-4551	www.lgseeds.com
Loyal Brand	MS Technologies	(715) 538-3238	www.legacyseeds.com
NK	Syngenta	(715) 307-8452	www.nksoybeans.com
O'Brien	O'Brien Hybrids	(608) 576-3685	www.obrienhybrids.com
P3 Genetics	MS Technologies	(563) 542-0975	www.corneliusseed.com
Public	WI Foundation Seeds	(608) 846-3761	www.wisconsinfoundationseeds.wisc.edu
Renk	Renk Seed	(608) 513-0293	www.renkseed.com
SB&B	SB&B Foods Inc.	(715) 928-1623	www.sb-b.com
Stine	Stine Seed Company	(608) 387-3954	www.stinseed.com
Tracy	Tracy Seeds, LLC	(608) 289-1082	www.tracyseeds.com
Viking	Albert Lea Seed	(800) 352-5247	www.alseed.com
Virtue	GDM Seeds	(605) 291-9551	www.virtueseed.com
Xitavo	MS Technologies	(309) 212-5454	www.xitavosoybeanseed.com

TABLE 9. 2023 Temperature and Precipitation Summary

	Average Mean Temperature (° F)					Total Precipitation (inches)						
Trial Location		May	June	July	August	September		May	June	July	August	September
Arlington		58.8	68.8	71.1	69.5	65.5		1.0	0.9	4.9	4.1	1.8
	Departure	1.3	1.3	0.1	0.5	4.1	Departure	-3.2	-4.2	0.8	0.3	-1.6
Clinton		58.1	67.4	70.0	68.7	63.8		2.8	1.4	5.0	2.8	4.9
	Departure	0.0	-0.7	-1.4	-0.7	1.3	Departure	-1.5	-4.0	1.3	-1.4	1.0
Fond du Lac		57.2	67.5	71.4	69.4	64.4		1.6	2.9	5.6	3.6	2.0
	Departure	1.3	1.5	1.2	1.0	3.5	Departure	-1.8	-1.5	2.0	0.1	-1.2
Galesville (Trempealeau)		60.5	71.0	71.6	72.3	66.2		2.0	2.8	4.0	1.4	3.6
	Departure	1.7	2.6	-0.8	2.1	3.7	Departure	-2.4	-1.5	-0.7	-2.7	-0.2
Marshfield		56.2	67.1	68.4	68.0	62.6		3.0	2.4	3.6	2.1	3.7
	Departure	0.5	1.6	-1.3	0.5	3.3	Departure	-1.2	-2.4	-0.2	-1.9	-0.2
Menomonie		58.5	69.6	69.3	69.1	64.6		1.6	2.1	6.1	4.1	4.3
	Departure	2.2	3.3	-1.3	0.8	4.4	Departure	-3.0	-3.1	2.1	0.1	0.6
							Irrigation	--	--	3.0	3.7	2.2
Platteville (Lancaster)		60.2	69.4	71.0	71.0	65.1		3.4	1.6	5.2	1.7	3.1
	Departure	2.1	1.6	-0.4	1.5	3.2	Departure	-1.0	-4.3	0.2	-2.2	-1.0
Seymour (Green Bay)		57.6	67.7	71.3	68.6	64.6		1.3	3.6	3.0	3.2	0.5
	Departure	1.1	1.3	0.8	0.0	3.6	Departure	-2.0	-0.5	-0.6	-0.2	-2.7
Spooner*		58.7	68.6	68.4	67.0	63.2		0.7	2.3	1.2	3.5	4.8
	Departure	3.5	3.7	-0.6	-0.1	4.4	Departure	-3.4	-1.9	-2.8	-0.4	1.2
							Irrigation	0.4	2.5	2.0	1.5	--
Wautoma* (Hancock)		56.6	68.8	69.1	68.8	64.5		2.0	3.4	2.7	2.5	3.5
	Departure	0.0	2.5	-1.0	0.5	4.1	Departure	-2.2	-1.6	-1.4	-1.5	0.2
							Irrigation	0.4	1.4	1.8	2.4	1.6

* Irrigation applied at Menomonie, Spooner (irrigated sand trial), and Wautoma.

Source: Midwestern Regional Climate Center; Long term normals from 1991 to 2020 used for departure data.

TABLE 10. 2023 Characteristics of Soybean Varieties (1 of 9)

Brand	Entry	Maturity Group	Herbicide Trait ¹	Performance Shown in Table(s)	Seed Treatment(s)	SCN Source ²	PRR Genes ³	Color ⁴			
								Flower	Pubescence	Pod	Hilum
Alloy	A16E34	1.4	E3	3,4	Acceleron F/I, ILEVO	PI 88788	Rps 1-k	P	G	BR	IB
Alloy	A23E33	2.3	E3	2	Acceleron F/I, ILEVO	PI 88788	Rps 1-c, Seg 3-a	W	G	T	BF
Alloy	A26E33	2.6	E3	2	Acceleron F/I, ILEVO	PI 88788	Rps 1-k	P	BR	T	IB
Apex	AE0720	0.7	E3	5	Brute 4000S, Heads Up	PI 88788	--	P	G	T	BF
Apex	AE0930	0.9	E3	5	Brute 4000S, Heads Up	Peking	Rps 3-a	P	G	--	BF
Apex	AE1040	1.0	E3	5	Brute 4000S, Heads Up	--	--	--	--	--	--
Apex	AE1220	1.2	E3	4,5	Brute 4000S, Heads Up	PI 88788	Rps 1-c	P	G	--	IB
Apex	AE1410	1.4	E3	4	Brute 4000S, Heads Up	PI 88788	Rps 1-k	P	G	BR	IB
Apex	AE1710	1.7	E3	4	Brute 4000S, Heads Up	PI 88788	Rps 1-k	P	G	BR	IB
Apex	AE1930	1.9	E3	3	Brute 4000S, Heads Up	PI 88788	Rps 1-k	P	LTW	--	BL
Apex	AE2220	2.2	E3	3	Brute 4000S, Heads Up	PI 88788	--	W	G	T	BF
Asgrow	AG07XF4	0.7	XF	5	Acceleron F/I, ILEVO	PI 88788	Rps 3-a	P	LTW	BR	BL
Asgrow	AG08XF4	0.8	XF	5	Acceleron F/I, ILEVO	PI 88788	Rps 1-c	P	G	BR	IB
Asgrow	AG09XF3	0.9	XF	5	Acceleron F/I, ILEVO	PI 88788	Rps 1-c	P	TW	BR	BL
Asgrow	AG11XF4	1.1	XF	4,5	Acceleron F/I, ILEVO	PI 88788	Rps 1-c	P	LTW	T	BL
Asgrow	AG15XF2	1.5	XF	3,4	Acceleron F/I, ILEVO	PI 88788	Rps 1-c	P	G	BR	IB
Asgrow	AG18XF1	1.8	XF	3,4	Acceleron F/I, ILEVO	PI 88788	--	P	G	T	BF
Asgrow	AG20XF1	2.0	XF	2,3,4	Acceleron F/I, ILEVO	PI 88788	Rps 1-c	P	G	T	G
Asgrow	AG21XF2	2.1	XF	2,3	Acceleron F/I, ILEVO	PI 88788	Rps 3-a	P	LTW	T	BR
Asgrow	AG23XF3	2.3	XF	2	Acceleron F/I, ILEVO	PI 88788	Rps 1-c	P	G	BR	IB
Asgrow	AG27XF3	2.7	XF	2	Acceleron F/I, ILEVO	PI 88788	Rps 1-c	P	G	BR	IB
BioGene	BG9124E3	1.2	E3	4	Arma	Peking	Rps 3-a	P	G	T	BF
BioGene	BG9164E3	1.6	E3	3,4	Arma	Peking	Rps 1-k Rps-6	P	LTW	T	BR
Blue River/Viking	BR 0821N	0.8	CN	7	none	PI 88788	--	P	LTW	T	BR
Blue River	BR 1202N	1.2	CN	7	none	PI 88788	Rps 1-k	W	TW	BR	BR

All characteristic information is provided by the originator.

¹ Herbicide Trait : CN = conventional, RR2X = dicamba/glyphosate, XF = dicamba/glufosinate/glyphosate, E3 = glufosinate/glyphosate/2,4-D

² Source of SCN Resistance.

³ PRR= Phytophthora Root Rot Resistance: PRR Genes listed designate resistance to PRR Races.

⁴ BL= Black, BF = Buff, BR= Brown, CL=Clear, G= Gray, IB= Imperfect Black, IY= Imperfect Yellow, LTW= Light Tawny, M= Mixed, P= Purple, T= Tan, TW= Tawny, W=White, Y= Yellow.

TABLE 10. CONTINUED. 2023 Characteristics of Soybean Varieties (2 of 9)

Brand	Entry	Maturity Group	Herbicide Trait ¹	Performance Shown in Table(s)	Seed Treatment(s)	SCN Source ²	PRR Genes ³	Color ⁴			
								Flower	Pubescence	Pod	Hilum
Blue River/Viking	BR 1518N	1.5	CN	7	none	PI 88788	--	P	LTW	BR	BR
Blue River/Viking	BR 1718N	1.7	CN	6,7	none	PI 88788	Rps 1-k	M	LTW	T	BR
Blue River/Viking	BR 2155N	2.1	CN	6	none	PI 88788	--	M	LTW	T	BR
Blue River/Viking	BR 2418N	2.4	CN	6	none	PI 88788	Rps 1-c	P	LTW	BR	BL
Blue River	BR 2702	2.7	CN	6	none	--	--	W	LTW	BR	BR
Burrus	2096E	2.0	E3	2	Burrus PowerShield	PI 88788	Rps 1-k	P	LTW	BR	BL
Burrus	2335E	2.3	E3	2	Burrus PowerShield	PI 88788	Rps 1-a, 3-a	P	LTW	T	BL
Burrus	2681E	2.6	E3	2	Burrus PowerShield	Peking	Rps 1-k	P	LTW	T	BL
Cornelius	CB23XF63	2.3	XF	2	Profit Guard Plus	PI 88788	Rps 1-a, 1-c	--	--	--	--
Cornelius	CB25XF99	2.5	XF	2	Profit Guard Plus	PI 88788	Rps 1-c	--	--	--	--
Cornelius	CB27XF72	2.7	XF	2	Profit Guard Plus	PI 88788	Rps 1-c	--	--	--	--
Cornelius	CB29XF44	2.9	XF	2	Profit Guard Plus	PI 88788	Rps 1-c	--	--	--	--
Dairyland	DSR-0757E	0.7	E3	4,5	LumiGEN, ILEVO	--	Rps 1-c	P	LTW	BR	BR
Dairyland	DSR-0920E	0.9	E3	4,5	LumiGEN, ILEVO	--	--	P	G	T	IB
Dairyland	DSR-1290E	1.2	E3	4,5	LumiGEN, ILEVO	PI 88788	--	P	G	BR	IB
Dairyland	DSR-1450E	1.4	E3	4	LumiGEN, ILEVO	PI 88788	--	P	G	BR	IB
Dairyland	DSR-1505E	1.5	E3	3,4	LumiGEN, ILEVO	PI 88788	Rps 1-k	P	LTW	BR	BR
Dairyland	DSR-1788E	1.7	E3	3,4	LumiGEN, ILEVO	PI 88788	Rps 1-k	P	LTW	BR	BR
Dairyland	DSR-1919E	1.9	E3	3	LumiGEN, ILEVO	Peking	Rps 1-k	P	LTW	BR	BL
Dairyland	DSR-2188E	2.1	E3	2,3	LumiGEN, ILEVO	Peking	Rps 1-k	P	LTW	T	BR
Dairyland	DSR-2310E	2.3	E3	2,3	LumiGEN, ILEVO	PI 88788	Rps 1-k	P	LTW	BR	BR
Dairyland	DSR-2444E	2.4	E3	2,3	LumiGEN, ILEVO	Peking	Rps 1-k	P	LTW	BR	BR
Dairyland	DSR-2562E	2.5	E3	2	LumiGEN, ILEVO	PI 88788	Rps 1-k	P	LTW	BR	BL
Dairyland	DSR-2691E	2.6	E3	2	LumiGEN, ILEVO	PI 88788	Rps 1-k, 3-a	W	LTW	T	BL
Dairyland	DSR-2717E	2.7	E3	2	LumiGEN, ILEVO	Peking	Rps 1-k	P	LTW	T	BL

All characteristic information is provided by the originator.

¹ Herbicide Trait : CN = conventional, RR2X = dicamba/glyphosate, XF = dicamba/glufosinate/glyphosate, E3 = glufosinate/glyphosate/2,4-D

² Source of SCN Resistance.

³ PRR= Phytophthora Root Rot Resistance: PRR Genes listed designate resistance to PRR Races.

⁴ BL= Black, BF = Buff, BR= Brown, CL=Clear, G= Gray, IB= Imperfect Black, IY= Imperfect Yellow, LTW= Light Tawny, M= Mixed, P= Purple, T= Tan, TW= Tawny, W=White, Y= Yellow.

TABLE 10. CONTINUED. 2023 Characteristics of Soybean Varieties (3 of 9)

Brand	Entry	Maturity Group	Herbicide Trait ¹	Performance Shown in Table(s)	Seed Treatment(s)	SCN Source ²	PRR Genes ³	Color ⁴			
								Flower	Pubescence	Pod	Hilum
DONMARIO	DM 24E23	2.4	E3	2	Burrus PowerShield	PI 88788	Rps 1-k	P	LTW	BR	BL
DONMARIO	DM 27E34	2.7	E3	2	Burrus PowerShield	PI 88788	Rps 1-c	P	LTW	BR	BL
DONMARIO	DM 28E52	2.8	E3	2	Burrus PowerShield	PI 88788	Rps 1-k	P	G	BR	IB
Dyna-Gro	S16EN42	1.6	E3	3	Equity VIP, Saltro, Vayantis	PI 88788	Rps 3-a	P	G	T	BF
Dyna-Gro	S20EN84	2.0	E3	2,3	Equity VIP, Saltro, Vayantis	Peking	Rps 1-k	P	LTW	T	BR
Dyna-Gro	S20EN92	2.0	E3	3	Equity VIP, Saltro, Vayantis	PI 88788	Rps 1-c	P	G	BR	IB
Dyna-Gro	S21EN81	2.1	E3	2,3	Equity VIP, Saltro, Vayantis	PI 88788	Rps 1-k	P	G	BR	IB
Dyna-Gro	S25EN74	2.5	E3	2	Equity VIP, Saltro, Vayantis	Peking	Rps 1-k	P	LTW	T	BL
Dyna-Gro	S25XF64	2.5	XF	2	Equity VIP, Saltro, Vayantis	PI 88788	Rps 1-c	P	G	BR	IB
Dyna-Gro	S26EN53	2.6	E3	2	Equity VIP, Saltro, Vayantis	PI 88788	Rps 1-c	P	G	T	BF
FS HiSOY	HS 12F30	1.2	XF	2,3	Acceleron F/I, Saltro	PI 88788	Rps 1-c	P	G	T	BF
FS HiSOY	HS 18E30	1.8	E3	2,3	Acceleron F/I, Saltro	Peking	Rps 1-k	P	G	T	BF
FS HiSOY	HS 18F20	1.8	XF	2,3	Acceleron F/I, Saltro	PI 88788	--	P	G	T	BF
FS HiSOY	HS 21E20	2.1	E3	2,3	Acceleron F/I, Saltro	PI 88788	Rps 1-c	P	LTW	T	BL
FS HiSOY	HS 23E10	2.3	E3	2,3	Acceleron F/I, Saltro	PI 88788	Rps 1-k	W	G	T	BF
FS HiSOY	HS 24E30	2.4	E3	2,3	Acceleron F/I, Saltro	PI 88788	Rps 1-c	P	LTW	BR	BL
FS HiSOY	HS 24F00	2.4	XF	2,3	Acceleron F/I, Saltro	PI 88788	Rps 1-c	P	G	T	BF
FS HiSOY	HS 25E30	2.5	E3	2	Acceleron F/I, Saltro	Peking	Rps 1-k	P	LTW	T	BL
FS HiSOY	HS 26E20	2.6	E3	2	Acceleron F/I, Saltro	PI 88788	Rps 1-k	P	G	T	IB
FS HiSOY	HS 28E10	2.8	E3	2	Acceleron F/I, Saltro	PI 88788	Rps 1-k	P	G	BR	IB
FS HiSOY	HS 28F30	2.8	XF	2	Acceleron F/I, Saltro	PI 88788	--	P	LTW	BR	BL
Genesis	G0880E	0.8	E3	5	EclipseUS Trio	Peking	Rps 3-a	P	G	BR	BF
Genesis	G1260E	1.2	E3	4,5	EclipseUS Trio	PI 88788	Rps 1-c	P	G	T	IB
Genesis	G1560E	1.5	E3	4	EclipseUS Trio	PI 88788	Rps 3-a	P	G	T	BF
Genesis	G1760E	1.7	E3	4	EclipseUS Trio	PI 88788	Rps 3-a	P	G	T	BF

All characteristic information is provided by the originator.

¹ Herbicide Trait : CN = conventional, RR2X = dicamba/glyphosate, XF = dicamba/glufosinate/glyphosate, E3 = glufosinate/glyphosate/2,4-D

² Source of SCN Resistance.

³ PRR= Phytophthora Root Rot Resistance: PRR Genes listed designate resistance to PRR Races.

⁴ BL= Black, BF = Buff, BR= Brown, CL=Clear, G= Gray, IB= Imperfect Black, IY= Imperfect Yellow, LTW= Light Tawny, M= Mixed, P= Purple, T= Tan, TW= Tawny, W=White, Y= Yellow.

TABLE 10. CONTINUED. 2023 Characteristics of Soybean Varieties (4 of 9)

Brand	Entry	Maturity Group	Herbicide Trait ¹	Performance Shown in Table(s)	Seed Treatment(s)	SCN Source ²	PRR Genes ³	Color ⁴			
								Flower	Pubescence	Pod	Hilum
Genesis	G1950E	1.9	E3	3	EclipseUS Trio	PI 88788	Rps 1-k	P	LTW	BR	BL
Genesis	G2180E	2.1	E3	3	EclipseUS Trio, Saltro	PI 88788	Rps 1-a, 3-a	P	G	BR	BF
Genesis	G2480E	2.4	E3	2,3	EclipseUS Trio, Saltro	PI 88788	Rps 1-k	W	G	BR	BF
Genesis	G2570ES	2.5	E3	2	EclipseUS Trio, Saltro	PI 88788	Rps 1-a	P	G	BR	BF
Genesis	G2780E	2.7	E3	2	EclipseUS Trio	PI 88788	Rps 1-a	P	G	BR	IB
Golden Harvest	GH1194E3 Brand	1.1	E3	5	CruiserMaxx APX, Saltro	PI 88788	Rps 1-k, 3-a	W	G	T	BF
Golden Harvest	GH1472E3 Brand	1.4	E3	4	CruiserMaxx APX, Saltro	Peking	Rps 1-c, 3-a	P	G	T	BF
Golden Harvest	GH1534E3 Brand	1.5	E3	4	CruiserMaxx APX, Saltro	Peking	Rps 1-k	P	G	BR	IB
Golden Harvest	GH1614E3 Brand	1.6	E3	3	CruiserMaxx APX, Saltro	Peking	Rps 1-c, 3-a	P	G	T	IB
Golden Harvest	GH1762XF Brand	1.7	XF	4	CruiserMaxx APX, Saltro	PI 88788	Rps 1-c	P	LTW	BR	BR
Golden Harvest	GH1973E3 Brand	1.9	E3	3	CruiserMaxx APX, Saltro	Peking	Rps 1-k	P	G	BR	IB
Golden Harvest	GH2004XF Brand	2.0	XF	3	CruiserMaxx APX, Saltro	PI 88788	Rps 1-c	W	LTW	BR	BL
Golden Harvest	GH2292E3 Brand	2.2	E3	3	CruiserMaxx APX, Saltro	PI 88788	Rps 1-c	P	G	BR	IB
Golden Harvest	GH2463E3 Brand	2.4	E3	2	CruiserMaxx APX, Saltro	PI 88788	Rps 1-a	P	G	BR	BF
Golden Harvest	GH2674E3 Brand	2.6	E3	2	CruiserMaxx APX, Saltro	PI 88788	Rps 1-c	W	G	T	BF
Golden Harvest	GH2884XF Brand	2.8	XF	2	CruiserMaxx APX, Saltro	PI 88788	Rps 1-c	P	LTW	T	BL
Jung	1072R2X	0.7	RR2X	5	Acceleron F/I, ILEVO	PI 88788	Rps 1-c	P	LTW	BR	BL
Jung	1073XF	0.7	XF	5	Acceleron F/I, ILEVO	PI 88788	Rps 1-c, 3-a	P	TW	BR	BL
Jung	1093XF	0.9	XF	5	Acceleron F/I, ILEVO	PI 88788	Seg. Rps 1-c	P	LTW	BR	BL
Jung	1104XF	1.0	XF	5	Acceleron F/I, ILEVO	PI 88788	--	P	LTW	T	BL
Jung	1105XF	1.0	XF	4	Acceleron F/I, ILEVO	PI 88788	Rps 1-c	P	G	BR	IB
Jung	1123XF	1.1	XF	4	Acceleron F/I, ILEVO	PI 88788	Rps 1-c	P	G	BR	IB
Jung	1156XF	1.5	XF	4	Acceleron F/I, ILEVO	PI 88788	--	W	TW	BR	BL
Jung	1194XF	1.9	XF	4	Acceleron F/I, ILEVO	PI 88788	Rps 1-c	P	G	BR	IB
Jung	1205XF	2.0	XF	3	Acceleron F/I, ILEVO	PI 88788	Rps 1-c	P	G	BR	IB

All characteristic information is provided by the originator.

¹ Herbicide Trait : CN = conventional, RR2X = dicamba/glyphosate, XF = dicamba/glufosinate/glyphosate, E3 = glufosinate/glyphosate/2,4-D

² Source of SCN Resistance.

³ PRR= Phytophthora Root Rot Resistance: PRR Genes listed designate resistance to PRR Races.

⁴ BL= Black, BF = Buff, BR= Brown, CL=Clear, G= Gray, IB= Imperfect Black, IY= Imperfect Yellow, LTW= Light Tawny, M= Mixed, P= Purple, T= Tan, TW= Tawny, W=White, Y= Yellow.

TABLE 10. CONTINUED. 2023 Characteristics of Soybean Varieties (5 of 9)

Brand	Entry	Maturity Group	Herbicide Trait ¹	Performance Shown in Table(s)	Seed Treatment(s)	SCN Source ²	PRR Genes ³	Flower	Color ⁴		
									Pubescence	Pod	Hilum
Jung	1215XF	2.1	XF	3	Acceleron F/I, ILEVO	PI 88788	--	P	LTW	T	BL
Jung	1227XF	2.2	XF	3	Acceleron F/I, ILEVO	PI 88788	Rps 1-c	P	G	BR	G
Jung	1245XF	2.4	XF	2	Acceleron F/I, ILEVO	PI 88788	Rps 1-c	P	G	BR	IB
Jung	1254XF	2.5	XF	2	Acceleron F/I, ILEVO	PI 88788	Rps 1-c	P	G	T	G
Jung	1255XF	2.5	XF	2	Acceleron F/I, ILEVO	PI 88788	Rps 1-c, Seg 3-a	P	G	BR	IB
Jung	1274XF	2.7	XF	2	Acceleron F/I, ILEVO	PI 88788	--	P	G	BR	BL
Jung	1287XF	2.8	XF	2	Acceleron F/I, ILEVO	PI 88788	--	P	G	BR	IB
Legacy Seeds	LS121-22C	1.2	CN	7	L-Coat Total	PI 88788	--	P	LTW	T	BL
Legacy Seeds	LS124-23	1.2	XF	3,4,5	L-Coat Total	PI 88788	Rps 1-c	P	G	T	BF
Legacy Seeds	LS151-21C	1.5	CN	7	L-Coat Total, Saltro	PI 88788	Rps 1-k	P	LTW	T	BR
Legacy Seeds	LS154-22	1.5	XF	3,4,5	L-Coat Total	PI 88788	--	P	G	T	IB
Legacy Seeds	LS174-23	1.7	XF	3,4	L-Coat Total	PI 88788	Rps 1-a	P	G	T	BF
Legacy Seeds	LS184-21	1.8	XF	3,4	L-Coat Total	PI 88788	--	P	G	T	BF
Legacy Seeds	DF 187 N	1.8	CN	6,7	L-Coat Total, Saltro	PI 88788	Rps 1-k	M	G	T	CL
Legacy Seeds	LS191-23C	1.9	CN	6,7	L-Coat Total	PI 88788	Rps 1-c	W	LTW	T	BL
Legacy Seeds	LS194-23	1.9	XF	3,4	L-Coat Total	--	Rps 1-c	P	LTW	T	BL
Legacy Seeds	LS231-21C	2.3	CN	6	L-Coat Total	PI 88788	Rps 1-a	P	LTW	BR	BL
LG Seeds	LGS1043E3	1.0	E3	5	AgriShield Max, Saltro	PI 88788	Rps 1-c, 3-a	P	G	T	IB
LG Seeds	LGS1385XF	1.3	XF	3,5	AgriShield Max, Saltro	PI 88788	Rps 1-c, 3-a	P	LTW	BR	BR
LG Seeds	LGS1551E3	1.5	E3	4	AgriShield Max, Saltro	Peking	Rps 1-k	P	G	BR	IB
LG Seeds	LGS1585XF	1.5	XF	4	AgriShield Max, Saltro	PI 88788	Rps 3-a	P	LTW	BR	BR
LG Seeds	LGS1832E3	1.8	E3	4	AgriShield Max, Saltro	Peking	Rps 1-k	P	LTW	BR	BL
LG Seeds	LGS1939E3	1.9	E3	3	AgriShield Max, Saltro	PI 88788	Rps 1-k	P	LTW	BR	BL
LG Seeds	LGS2001E3	2.0	E3	2,3	AgriShield Max, Saltro	Peking	Rps 1-k	P	G	T	BF
LG Seeds	LGS2025XF	2.0	XF	3	AgriShield Max, Saltro	PI 88788	Rps 1-c	P	G	T	G

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¹ Herbicide Trait : CN = conventional, RR2X = dicamba/glyphosate, XF = dicamba/glufosinate/glyphosate, E3 = glufosinate/glyphosate/2,4-D

² Source of SCN Resistance.

³ PRR= Phytophthora Root Rot Resistance: PRR Genes listed designate resistance to PRR Races.

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TABLE 10. CONTINUED. 2023 Characteristics of Soybean Varieties (6 of 9)

Brand	Entry	Maturity Group	Herbicide Trait ¹	Performance Shown in Table(s)	Seed Treatment(s)	SCN Source ²	PRR Genes ³	Color ⁴			
								Flower	Pubescence	Pod	Hilum
Loyal Brand	L0860E	0.8	E3	5	L-Coat Total	Peking	Rps 3-a	P	G	T	BF
Loyal Brand	L1050E	1.0	E3	5	L-Coat Total, Heads Up	PI 88788	--	P	G	T	IB
Loyal Brand	L1160E	1.1	E3	4,5	L-Coat Total	Peking	Rps 3-a	P	G	T	BF
Loyal Brand	L1230E	1.2	E3	4,5	L-Coat Total, Saltro	PI 88788	Rps 1-c	P	G	BR	IB
Loyal Brand	L1260E	1.2	E3	4,5	L-Coat Total	Peking	Rps 3-a	P	G	T	BF
Loyal Brand	L1540E	1.5	E3	3,4	L-Coat Total, Saltro	PI 88788	Rps 3-a	P	G	T	BF
Loyal Brand	L1660E	1.6	E3	3,4	L-Coat Total	PI 88788	--	P	G	BR	IB
Loyal Brand	L1730E	1.7	E3	3,4	L-Coat Total, Saltro	PI 88788	Rps 1-k	P	G	BR	IB
Loyal Brand	L1950E	1.9	E3	2,3,4	L-Coat Total, Saltro	PI 88788	Rps 1-k	P	LTW	BR	BL
Loyal Brand	L2130E	2.1	E3	2,3	L-Coat Total	PI 88788	Rps 1-k	P	G	BR	IB
Loyal Brand	L2150E	2.1	E3	2,3	L-Coat Total, Saltro	Peking	Rps 1-c	P	G	T	IB
Loyal Brand	L2550E	2.5	E3	2	L-Coat Total, Saltro	PI 88788	Rps 1-a	P	G	BR	BF
NK	NK03-J1XF	0.3	XF	5	Cruisermass APX, Saltro	--	Rps 3-a	P	LTW	T	G
NK	NK04-A9E3	0.4	E3	5	Cruisermass APX, Saltro	PI 88788	Rps 1-c	P	G	T	Y
NK	NK07-B1XF	0.7	XF	5	Cruisermass APX, Saltro	PI 88788	Rps 3-a	W	LTW	T	BL
NK	NK07-G5E3	0.7	E3	5	Cruisermass APX, Saltro	Peking	Rps 1-k, 3-a	P	G	T	BF
NK	NK11-A4E3	1.1	E3	3,4,5	Cruisermass APX, Saltro	PI 88788	Rps 1-k, 3-a	W	G	T	BF
NK	NK11-U2XF	1.1	XF	3,4,5	Cruisermass APX, Saltro	PI 88788	Rps 3-a	P	LTW	T	BL
NK	NK16-Z6E3	1.6	E3	3,4	Cruisermass APX, Saltro	Peking	Rps 1-c, 3-a	P	G	T	IB
NK	NK18-D1XF	1.8	XF	3,4	Cruisermass APX, Saltro	PI 88788	Rps 1-k, 3-a	P	LTW	T	BL
NK	NK19-T8E3S	1.9	E3	2,3	Cruisermass APX, Saltro	Peking	Rps 1-k	P	G	BR	IB
NK	NK20-K2XF	2.0	XF	2,3	Cruisermass APX, Saltro	PI 88788	Rps 1-c	W	LTW	BR	BL
NK	NK21-C2E3	2.1	E3	2,3	Cruisermass APX, Saltro	PI 88788	Rps 1-c	P	G	BR	IB
NK	NK24-A2E3S	2.4	E3	2,3	Cruisermass APX, Saltro	PI 88788	Rps 1-a	P	G	BR	BF
NK	NK26-M6E3	2.6	E3	2	Cruisermass APX, Saltro	PI 88788	Rps 1-c	W	G	T	BF

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¹ Herbicide Trait : CN = conventional, RR2X = dicamba/glyphosate, XF = dicamba/glufosinate/glyphosate, E3 = glufosinate/glyphosate/2,4-D

² Source of SCN Resistance.

³ PRR= Phytophthora Root Rot Resistance: PRR Genes listed designate resistance to PRR Races.

⁴ BL= Black, BF = Buff, BR= Brown, CL=Clear, G= Gray, IB= Imperfect Black, IY= Imperfect Yellow, LTW= Light Tawny, M= Mixed, P= Purple, T= Tan, TW= Tawny, W=White, Y= Yellow.

TABLE 10. CONTINUED. 2023 Characteristics of Soybean Varieties (7 of 9)

Brand	Entry	Maturity Group	Herbicide Trait ¹	Performance Shown in Table(s)	Seed Treatment(s)	SCN Source ²	PRR Genes ³	Flower	Pubescence	Pod	Hilum
NK	NK28-B9E3S	2.8	E3	2	Cruisermaxx APX, Saltro	PI 88788	Rps 1-c	P	G	BR	IB
NK	NK28-P6XF	2.8	XF	2	Cruisermaxx APX, Saltro	PI 88788	Rps 1-c	P	LTW	T	BL
O'Brien	O'SOY1524EL-3	1.5	E3	3,4	EclipseUS Quad	PI 88788	Rps 3-a	P	G	BR	IB
O'Brien	O'SOY2024EL-3	2.0	E3	2,3,4	EclipseUS Quad	PI 88788	Rps 1-k	P	LTW	BR	BL
O'Brien	O'SOY2523EL-3	2.5	E3	2,3	EclipseUS Quad	PI 88788	Rps 1-a	P	G	BR	BF
P3 Genetics	2322E	2.2	E3	2	Profit Guard Plus	PI 88788	--	--	--	--	--
P3 Genetics	2424E	2.4	E3	2	Profit Guard Plus	PI 88788	Rps 1-k	--	--	--	--
P3 Genetics	2325E	2.5	E3	2	Profit Guard Plus	PI 88788	Rps 1-a	--	--	--	--
P3 Genetics	2326E	2.6	E3	2	Profit Guard Plus	PI 88788	Rps 1-k	--	--	--	--
P3 Genetics	2429E	2.9	E3	2	Profit Guard Plus	PI 88788	--	--	--	--	--
Public	MN1410	1.4	CN	6,7	Acceleron F/I, ILEVO	--	--	W	G	BR	BF
Public	W19-2484	1.5	CN	6,7	none	--	--	P	TW	TW	BL
Public	W19-1190	2.5	CN	6	none	--	--	P	LTW	LTW	CL
Public	W16-5282B	2.6	CN	6	none	--	--	P	LTW	LTW	BL
Public	W19-11321	2.8	CN	6	none	--	--	P	TW	TW	BL(BL seed coat)
Renk	RS153NXF	1.5	XF	4	EclipseUS Trio	PI 88788	--	P	G	T	BL
Renk	RS194XF	1.9	XF	3	EclipseUS Trio	PI 88788	--	P	LTW	T	BL
Renk	RS253NXF	2.5	XF	2	EclipseUS Trio, Saltro	PI 88788	Rps 1-c	P	G	BR	IB
SB&B	SB49	0.4	CN	7	CruiserMaxx	PI 88788	Rps 1-c	P	G	T	Y
SB&B	SB700	0.7	CN	7	CruiserMaxx	--	Rps 1-c	P	LTW	BR	IY
SB&B	SB1270	1.2	CN	6,7	CruiserMaxx	--	--	P	G	T	Y
SB&B	SB19	1.5	CN	6,7	CruiserMaxx	--	--	P	G	T	Y
Stine	08EC32	0.8	E3	5	SoyStar Elite, Saltro	PI 88788	Rps 1-c, 3-a	P	G	--	IB
Stine	10EF23	1.0	E3	5	SoyStar Elite, Saltro	Peking	Rps 3-a	P	G	--	BF
Stine	11EC02	1.1	E3	4,5	SoyStar Elite, Saltro	PI 88788	--	P	G	--	IB

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² Source of SCN Resistance.

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TABLE 10. CONTINUED. 2023 Characteristics of Soybean Varieties (8 of 9)

Brand	Entry	Maturity Group	Herbicide Trait ¹	Performance Shown in Table(s)	Seed Treatment(s)	SCN Source ²	PRR Genes ³	Color ⁴			
								Flower	Pubescence	Pod	Hilum
Stine	15EE32	1.5	E3	3,4	SoyStar Elite, Saltro	PI 88788	Rps 3-a	P	G	--	BF
Stine	17EE32	1.7	E3	2,3,4	SoyStar Elite, Saltro	PI 88788	Rps 3-a	P	G	--	BF
Stine	19EC12	1.9	E3	3	SoyStar Elite, Saltro	PI 88788	Rps 1-k	P	G	--	IB
Stine	19EE62	1.9	E3	2,3	SoyStar Elite, Saltro	PI 88788	Rps 1-k	P	LTW	--	BL
Stine	22EF23	2.2	E3	2,3	SoyStar Elite, Saltro	PI 88788	Rps 1-c	P	LTW	--	BL
Stine	23EE06	2.3	E3	2	SoyStar Elite, Saltro	PI 88788	HRps 3-a, Rps 1-c	W	G	--	BF
Stine	24EG23	2.4	E3	2	SoyStar Elite, Saltro	PI 88788	Rps 1-k	W	G	--	BF
Stine	25FD02	2.5	XF	2	SoyStar Elite, Saltro	PI 88788	Rps 1-c	P	LTW	--	BL
Stine	29EF02	2.9	E3	2	SoyStar Elite, Saltro	PI 88788	--	P	G	--	IB
Tracy	1654E	1.6	E3	3	Intego Suite, N-Force	--	Rps 1-k	P	LTW	BR	BL
Tracy	1854E	1.8	E3	3	Intego Suite, N-Force	--	Rps 1-k	P	LTW	BR	BL
Tracy	2153E	2.1	E3	3	Intego Suite, N-Force	Peking	Rps 1-c	P	G	T	IB
Tracy	2253E	2.2	E3	2	Intego Suite, N-Force	--	Rps 1-k	P	LTW	T	BL
Tracy	2453E	2.4	E3	2	Intego Suite, N-Force	--	Rps 1-a	P	G	T	BF
Tracy	2454E	2.4	E3	2	Intego Suite, N-Force	--	Rps 1-k	P	LTW	BR	BL
Tracy	2654E	2.6	E3	2	Intego Suite, N-Force	--	Rps 1-k	P	LTW	BR	BL
Viking	VK 1223N	1.2	CN	7	none	PI 88788	--	P	LTW	T	BL
Viking	VK 2022N	2.0	CN	6	none	PI 88788	Rps 1-k	P	LTW	T	BL
Viking	VK 2340KN	2.3	CN	6	none	Peking	Rps 1-k	P	G	T	BF
Viking	VK 2724	2.7	CN	6	none	PI 88788	Rps 1-c	W	LTW	T	BL
Virtue	V1821	1.8	CN	6	CruiserMaxx APX	PI 88788	Rps 1-c	P	G	BR	Y
Virtue	V2122	2.1	CN	6	CruiserMaxx APX	--	Rps 3-a	W	T	T	BL
Virtue	V2922	2.9	CN	6	CruiserMaxx APX	PI 88788/PI 437654	Rps 1-k	P	G	T	BF
Xitavo	XO 0554E	0.5	E3	5	Obvius Plus, Poncho/Votivo, Relenya, ILEVO	PI 88788	Rps 1-k, 3-a	P	G	T	IB
Xitavo	XO 0602E	0.6	E3	5	Obvius Plus, Poncho/Votivo, Relenya, ILEVO	PI 88788	--	P	G	T	BF

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² Source of SCN Resistance.

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TABLE 10. CONTINUED. 2023 Characteristics of Soybean Varieties (9 of 9)

Brand	Entry	Maturity Group	Herbicide Trait ¹	Performance Shown in Table(s)	Seed Treatment(s)	SCN Source ²	PRR Genes ³	Color ⁴			
								Flower	Pubescence	Pod	Hilum
Xitavo	XO 0993E	0.9	E3	4,5	Obvius Plus, Poncho/Votivo, Relenya, ILEVO	Peking	Rps 3-a	P	G	T	BF
Xitavo	XO 1133E	1.1	E3	3,4,5	Obvius Plus, Poncho/Votivo, Relenya, ILEVO	PI 88788	--	P	G	T	IB
Xitavo	XO 1212E	1.2	E3	3,4,5	Obvius Plus, Poncho/Votivo, Relenya, ILEVO	PI 88788	Rps 1-c	P	G	T	IB
Xitavo	XO 1372E	1.3	E3	3,4	Obvius Plus, Poncho/Votivo, Relenya, ILEVO	PI 88788	--	P	G	BR	IB
Xitavo	XO 1404E	1.4	E3	3,4	Obvius Plus, Poncho/Votivo, Relenya, ILEVO	PI 88788	Rps 1-c	P	G	T	IB
Xitavo	XO 1632E	1.6	E3	3,4	Obvius Plus, Poncho/Votivo, Relenya, ILEVO	PI 88788	Rps 3-a	P	G	T	BF
Xitavo	XO 1822E	1.8	E3	2,3,4	Obvius Plus, Poncho/Votivo, Relenya, ILEVO	PI 88788	Rps 3-a	P	G	T	BF
Xitavo	XO 2181E	2.1	E3	2,3	Obvius Plus, Poncho/Votivo, Relenya, ILEVO	PI 88788	Rps 1-k	P	G	BR	IB
Xitavo	XO 2282E	2.2	E3	2,3	Obvius Plus, Poncho/Votivo, Relenya, ILEVO	PI 88788	--	P	G	T	BF
Xitavo	XO 2323E	2.3	E3	2,3	Obvius Plus, Poncho/Votivo, Relenya, ILEVO	PI 88788	Rps 1-c	P	LTW	T	BL
Xitavo	XO 2444E	2.4	E3	2,3	Obvius Plus, Poncho/Votivo, Relenya, ILEVO	PI 88788	Rps 1-a	P	G	BR	BF
Xitavo	XO 2501E	2.5	E3	2	Obvius Plus, Poncho/Votivo, Relenya, ILEVO	PI 88788	--	P	G	BR	IB
Xitavo	XO 2613E	2.6	E3	2	Obvius Plus, Poncho/Votivo, Relenya, ILEVO	PI 88788	Rps 1-c	P	G	T	BF
Xitavo	XO 2832E	2.8	E3	2	Obvius Plus, Poncho/Votivo, Relenya, ILEVO	PI 88788	Rps 1-k	P	G	BR	IB
Xitavo	XO 2963E	2.9	E3	2	Obvius Plus, Poncho/Votivo, Relenya, ILEVO	Peking	Rps 1-k	P	G	T	IB

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Wisconsin Soybean Performance Trials 2023 (A3654)



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<https://coolbean.info/soybean-research/variety-trial-results/>