



Extension
UNIVERSITY OF WISCONSIN-MADISON

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Soybean Variety Performance Trials

2021

Department of Agronomy
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2021 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, at row spacings listed in Table 1. Tests were conducted using a randomized complete block design with four replicates. Table 1 also lists the herbicides used for weed control in the conventional and glyphosate tolerant variety trials. The Janesville location was moved to Clinton for the 2021 season.

Growing conditions

Wisconsin soybean growers experienced average growing conditions across much of the state in 2021. Below normal precipitation in April and May coupled with average temperatures expedited soybean

planting. This rapid planting window was followed by erratic precipitation patterns across most of the state through September, with the southeastern portion of WI experiencing the driest conditions. Cooler weather in late May led to frost damage in some areas. The 2021 projected statewide average soybean yield is 54.0 bu/A, up 2.0 bu/A from 2020. Production is expected to be at 112 million bushels, which is above the record crop of 2016. Source: October 12, 2021 NASS report, www.nass.usda.gov

Statewide crop conditions were rated at about 73% good to excellent for most of the season. As of October 31st, 84% of the WI soybean crop had been harvested, which is ahead of the 5-year average. Marshfield had some *Phytophthora* root rot incidence. Sudden death syndrome was found at the Seymour and Menomonie sites, but the severity was low. The Fond du Lac site was lost to a May 29th killing frost. Yields at the Hancock site were highly variable due to undetermined field variation.

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. 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 based on the company supplied relative maturity of the variety.

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 Rot

(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. Race 3 is the predominant form of *Phytophthora* in Wisconsin soils. Thus, the long-used Rps1-a gene is not providing protection 95% of the time. Race 4 occurs in 25% of Wisconsin soybean fields. Growers have an excellent chance of controlling race 3 by planting varieties with the Rps1-c or Rps1-k gene. The Rps1-k gene provides complete resistance against most races of *Phytophthora* found in Wisconsin. That being said, race 25 has been found here in Wisconsin, and the Rps1-k gene does not protect against that race. Many varieties express tolerance (partial resistance) to all races of *Phytophthora*, but varieties with this form of resistance are vulnerable in the early seedling phase. Certain fungicides seed treatments can provide a window of protection to partially resistant varieties during emergence. Variety resistance ratings are not reported and can be supplied by seed industry representatives. 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 *Phytophthora* root and stem rot in Wisconsin in 2021.

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 in central and northeast Wisconsin in 2021. White mold in southern Wisconsin was sporadic and likely did not cause much yield reduction except on some very 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 avail-

able 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 a major disease of soybeans in Wisconsin. In 2021, BSR was occasionally found in fields in Wisconsin. 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 moderate in 2021, especially south and south-central 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 2021; whereas spider mite infestations were isolated to droughty production areas of WI. 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 2022. The virus situation in fields also needs to be assessed; virus-infected soybean 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 2021, 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 2021 than 2020 but did not cause any yield reductions.

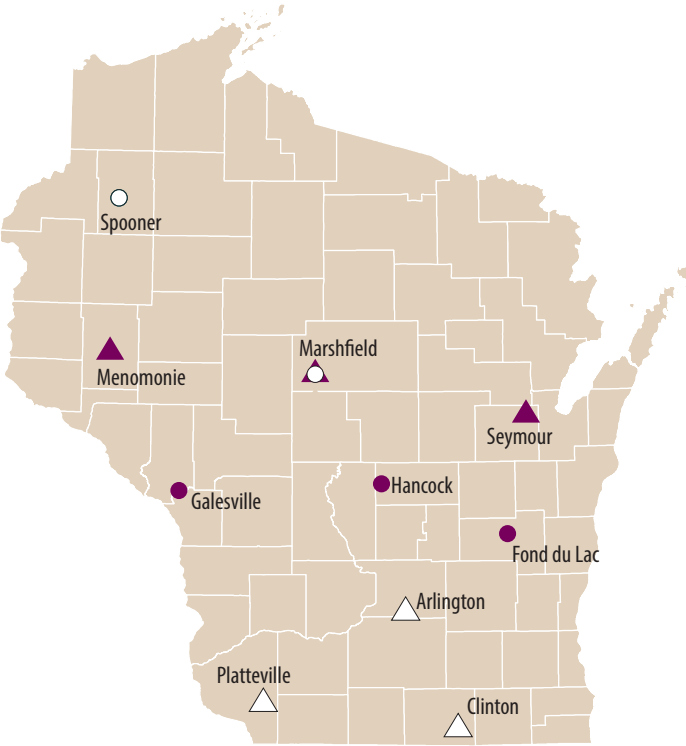
What the results mean

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.

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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.



2021 Soybean Variety Trial Sites

-  **Northern Region**
Marshfield
Spooner
-  **North Central Region**
Marshfield
Menomonie
Seymour
-  **Central Region**
Fond du Lac
Galesville
Hancock
-  **Southern Region**
Arlington
Clinton
Platteville

TABLE 1. General Information on the 2021 Soybean Trials

Location: Trial	Cooperators	Row Spacing (in.)	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	2021	2020	2020-21
Arlington: Glyphosate Tolerant	Mike Bertram	15	Silt Loam	7.0	3.2	55	111	2,4-D, glyphosate, Moccasin II Plus, Sonic	glyphosate, Select Max	29-Apr	20-Oct	84	85	85
Arlington: Glyphosate Tolerant (Early MG)	Mike Bertram	15	Silt Loam	7.0	3.2	55	111	2,4-D, glyphosate, Moccasin II Plus, Sonic	glyphosate, Select Max	29-Apr	1-Oct	70	83	77
Arlington: Conventional Herbicide	Mike Bertram	15	Silt Loam	7.0	3.2	55	111	2,4-D, glyphosate, Moccasin II Plus, Sonic	Raptor, Select Max	29-Apr	20-Oct	71	77	74
Clinton: Glyphosate Tolerant	Gary Sommers	15	Silt Loam	6.3	3.5	49	152	glyphosate, Zidua Pro	glyphosate, Select Max	27-Apr	30-Sep	66	--	66
Fond du Lac: Glyphosate Tolerant	Ed Montsma	15	Silt Loam	--	--	--	--	This location had a killing frost on May 29th		28-Apr	--	--	66	66
Galesville: Glyphosate Tolerant	Ken Congdon	15	Silt Loam	6.0	3.5	31	185	Authority First, Dual II Magnum	glyphosate, Select Max	10-May	18-Oct	69	82	76
Hancock: Glyphosate Tolerant	Paul Sytsma	15	Sand	5.6	0.6	93	106	Dual II Magnum	glyphosate, Select Max, Warrant	30-Apr	1-Oct	67	85	76
Marshfield: Glyphosate Tolerant (North Central)	Jason Cavadini	15	Silt Loam	6.6	3.8	59	106	Parallel	glyphosate, Select Max, Warrant	7-May	19-Oct	74	69	72
Marshfield: Glyphosate Tolerant (North)	Jason Cavadini	15	Silt Loam	6.6	3.8	59	106	Parallel	glyphosate, Select Max, Warrant	7-May	19-Oct	72	63	68
Menomonie: Glyphosate Tolerant	Tony Mellenthin, Jerry Clark	15	Sandy Loam	6.6	1.8	33	140	Enlite, glyphosate	glyphosate	3-May	19-Oct	77	72	75
Menomonie: Conventional Herbicide	Tony Mellenthin, Jerry Clark	15	Sandy Loam	6.6	1.8	33	140	Enlite, glyphosate	Raptor	3-May	19-Oct	70	67	69
Platteville: Glyphosate Tolerant	Schweigert Fam-ily Farms	15	Silt Loam	7.0	2.7	23	95	Gramoxone, Prefix	glyphosate, Select Max, Warrant	27-Apr	1-Oct	96	86	91
Platteville: Conventional Herbicide	Schweigert Fam-ily Farms	15	Silt Loam	7.0	2.7	23	95	Gramoxone, Prefix	Flexstar, Select Max	27-Apr	1-Oct	91	80	86
Seymour: Glyphosate Tolerant	Mike Maass	15	Silt Loam	7.3	2.2	34	112	Authority First, Dual II Magnum	glyphosate, Warrant	6-May	30-Sep	74	56	65
Spooner: Glyphosate Tolerant (Dry Land)	Phil Holman	15	Silt Loam	6.5	2.1	33	144	--	glyphosate (2), Dual II Magnum, Select Max	17-May	18-Oct	55	60	58
Spooner: Glyphosate Tolerant (Irrigated)	Phil Holman	15	Sandy Loam	6.4	2.0	29	109	--	glyphosate (2), Pursuit	13-May	18-Oct	57	53	55

TABLE 2. 2021 Southern Region Glyphosate Tolerant Soybean Trial (1 of 4)

Brand	Entry	Maturity Group	Maturity Date ¹	2021 3-Test Average		2021 Yields			2021 Composition ¹		2020 3-Test Average ²		2020 Composition ¹	
				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 (%)
Ag Armour	AA 1721 E3	1.7	17-Sep	82	1.0	82	*72	94	33.4	20.0	--	--	--	--
AgriGold	G2095XF	2.0	20-Sep	81	1.0	80	64	*99	34.6	19.6	--	--	--	--
AgriGold	G2220XF	2.2	22-Sep	*85	1.3	84	69	*104	33.2	19.8	--	--	--	--
AgriGold	G2315XF	2.3	20-Sep	*85	1.2	85	68	*102	34.1	19.5	--	--	--	--
AgriGold	G2518XF	2.5	27-Sep	77	1.0	78	61	93	32.9	19.8	--	--	--	--
AgriGold	G2750XF	2.7	26-Sep	82	1.4	*88	67	92	35.5	18.8	--	--	--	--
Asgrow	AG20X9	2.0	19-Sep	*84	1.2	82	69	*103	33.5	19.2	--	--	--	--
Asgrow	AG20XF1	2.0	20-Sep	82	1.0	84	67	96	34.2	19.4	--	--	--	--
Asgrow	AG21XF0	2.1	20-Sep	80	1.0	*86	64	91	35.0	19.7	--	--	--	--
Asgrow	AG21XF1	2.1	20-Sep	81	1.0	82	60	*100	34.1	19.3	--	--	--	--
Asgrow	AG24XF1	2.4	22-Sep	80	1.0	*86	64	89	34.7	18.8	--	--	--	--
Asgrow	AG26XF1	2.6	23-Sep	79	1.0	83	62	91	34.1	19.1	--	--	--	--
Burrus	2497E	2.4	23-Sep	80	1.2	81	66	94	32.9	20.5	--	--	--	--
Burrus	2565E	2.5	22-Sep	83	1.0	*86	65	*99	32.3	20.5	--	--	--	--
Cornelius	CB26XF76	2.6	27-Sep	79	1.0	75	69	92	33.4	19.8	--	--	--	--
Cornelius	CB27XF34	2.7	26-Sep	82	1.0	79	64	*103	34.8	19.3	--	--	--	--
Cornelius	CB27X81	2.7	27-Sep	82	1.0	*86	69	90	34.2	18.6	--	--	--	--
Cornelius	CB29XF09	2.9	29-Sep	82	1.1	79	66	*101	34.1	19.4	--	--	--	--
Credenz	CZ 2121GTLL	2.1	20-Sep	82	1.0	85	66	94	33.6	20.0	--	--	--	--
Credenz	CZ 2550GTLL	2.5	26-Sep	81	1.0	81	69	94	34.2	19.4	83	1.5	34.5	19.1
Credenz	CZ 2760GTLL	2.7	26-Sep	*85	1.0	81	*71	*104	34.1	19.7	*88	1.3	34.5	19.5
Dairyland	DSR-2030E	2.0	20-Sep	*84	1.0	*87	65	*101	33.5	19.6	--	--	--	--
Dairyland	DSR-2040E	2.0	20-Sep	83	1.0	*86	64	*99	32.6	20.2	--	--	--	--
Dairyland	DSR-2222E	2.2	20-Sep	*85	1.0	*93	69	94	34.7	19.3	--	--	--	--
Dairyland	DSR-2424E	2.4	26-Sep	82	1.0	84	66	95	31.9	20.7	*87	1.0	32.1	20.7
Dairyland	DSR-2640E	2.6	27-Sep	*84	1.0	*91	65	97	33.1	20.4	*87	1.3	33.9	19.7

TABLE 2. CONTINUED. 2021 Southern Region Glyphosate Tolerant Soybean Trial (2 of 4)

Brand	Entry	Maturity Group	Maturity Date ¹	2021 3-Test Average		2021 Yields			2021 Composition ¹		2020 3-Test Average ²		2020 Composition ¹	
				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 (%)
Dairyland	DSR-2999E	2.9	29-Sep	81	1.0	*87	65	92	33.2	20.0	*86	1.4	33.1	19.8
DONMARIO	DM 2544E	2.5	20-Sep	79	1.0	85	63	90	32.8	20.4	--	--	--	--
DONMARIO	DM 28E52	2.8	27-Sep	*84	1.0	85	65	*103	33.5	19.6	--	--	--	--
Dyna-Gro	S21EN81	2.1	20-Sep	*89	1.0	*93	*71	*102	33.1	20.0	*88	1.5	32.8	20.3
Dyna-Gro	S21XF61	2.1	26-Sep	80	1.0	84	62	94	35.0	19.1	--	--	--	--
Dyna-Gro	S21XF72	2.1	24-Sep	82	1.0	81	*71	94	36.2	19.2	--	--	--	--
Dyna-Gro	S23ES32	2.3	24-Sep	82	1.1	*87	*71	89	32.9	20.5	--	--	--	--
Dyna-Gro	S25EN02	2.5	20-Sep	82	1.0	84	69	94	32.4	20.6	--	--	--	--
Dyna-Gro	S25XF71S	2.5	27-Sep	81	1.0	*87	58	97	35.2	19.0	--	--	--	--
Dyna-Gro	S28EN22	2.8	27-Sep	*85	1.0	*93	64	*99	34.5	19.3	--	--	--	--
Dyna-Gro	S28XF92S	2.8	27-Sep	81	1.0	81	65	97	34.2	19.1	--	--	--	--
FS HiSOY	HS 19F10	1.9	18-Sep	*84	1.2	*90	68	96	33.7	19.7	--	--	--	--
FS HiSOY	HS 21E00	2.1	17-Sep	*86	1.0	*89	*73	97	32.3	20.8	--	--	--	--
FS HiSOY	HS 21F00	2.1	23-Sep	*87	1.3	*89	*77	95	33.2	19.8	--	--	--	--
FS HiSOY	HS 23F10	2.3	27-Sep	78	1.0	79	59	94	34.6	19.0	--	--	--	--
FS HiSOY	HS 24F00	2.4	26-Sep	83	1.0	85	65	*99	35.3	18.7	--	--	--	--
FS HiSOY	HS 25E00	2.5	26-Sep	*84	1.0	*90	67	95	32.5	21.1	*89	1.5	32.7	20.5
Genesis	G2550E	2.5	27-Sep	*87	1.2	*90	*72	*101	32.9	20.8	*87	1.3	32.8	20.8
Genesis	G2960E	2.9	26-Sep	82	1.0	*87	65	94	33.6	19.3	--	--	--	--
Golden Harvest	GH2102XF Brand	2.1	18-Sep	*87	1.2	84	*71	*104	34.5	19.6	--	--	--	--
Golden Harvest	GH2292E3 Brand	2.2	20-Sep	*84	1.0	*86	67	98	33.4	19.8	--	--	--	--
Impact	23E234N	2.3	23-Sep	77	1.0	80	57	95	34.0	19.7	--	--	--	--
Impact	28E256N	2.8	29-Sep	82	1.0	*86	63	98	33.7	19.4	--	--	--	--
Jung	1243R2X	2.4	27-Sep	78	1.0	84	63	88	34.2	19.1	*86	1.3	34.5	18.9
Jung	1244XF	2.4	23-Sep	83	1.0	82	65	*102	35.0	19.2	--	--	--	--
Jung	1254XF	2.5	23-Sep	79	1.0	83	61	93	33.9	19.4	--	--	--	--
Legacy Seeds	LS204-21	2.0	20-Sep	82	1.2	81	61	*103	34.0	19.7	--	--	--	--

TABLE 2. CONTINUED. 2021 Southern Region Glyphosate Tolerant Soybean Trial (3 of 4)

Brand	Entry	Maturity Group	Maturity Date ¹	2021 3-Test Average		2021 Yields			2021 Composition ¹		2020 3-Test Average ²		2020 Composition ¹	
				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 (%)
Legacy Seeds	LS224-20	2.2	23-Sep	78	1.0	80	56	97	34.5	19.3	--	--	--	--
Legacy Seeds	LS244-21	2.4	22-Sep	77	1.0	77	66	88	33.4	19.6	--	--	--	--
Legacy Seeds	LS254-21	2.5	22-Sep	79	1.0	76	62	98	34.0	19.7	--	--	--	--
LG Seeds	LGS2491XF	2.4	26-Sep	78	1.0	79	64	92	33.4	19.5	--	--	--	--
Loyal Brand	L2130E	2.1	18-Sep	*85	1.0	*90	66	*99	32.9	20.5	--	--	--	--
Loyal Brand	L2240E	2.2	22-Sep	82	1.0	85	66	94	33.6	19.9	--	--	--	--
Loyal Brand	L2530E	2.5	26-Sep	82	1.1	*86	63	96	33.0	20.8	--	--	--	--
Mustang	22X228	2.2	27-Sep	77	1.0	79	58	93	34.3	19.0	--	--	--	--
NK	NK14-W6E3 Brand	1.4	11-Sep	81	1.0	82	68	93	33.7	20.0	--	--	--	--
NK	NK14-C7XF Brand	1.4	13-Sep	*86	1.0	*90	69	*100	34.4	19.4	--	--	--	--
NK	S17-E3 Brand	1.7	17-Sep	83	1.0	85	66	98	34.2	19.5	--	--	--	--
NK	NK17-M2XF Brand	1.7	14-Sep	*84	1.0	*90	69	92	33.3	20.1	--	--	--	--
NK	NK18-J7E3 Brand	1.8	18-Sep	83	1.0	84	*71	93	34.5	19.8	--	--	--	--
NK	NK19-C8XF Brand	1.9	18-Sep	78	1.1	83	63	89	36.1	18.8	--	--	--	--
NK	NK21-H4XF Brand	2.1	20-Sep	83	1.1	*88	*73	89	33.9	20.0	--	--	--	--
NK	NK22-C4E3 Brand	2.2	17-Sep	*84	1.0	83	69	*99	33.0	20.4	--	--	--	--
NK	NK24-G7E3 Brand	2.4	20-Sep	80	1.0	83	65	90	35.3	19.3	--	--	--	--
NK	NK25-C9XF Brand	2.5	23-Sep	*87	1.0	85	*76	*99	33.3	20.9	--	--	--	--
NK	NK27-A7XF Brand	2.7	23-Sep	79	1.2	79	68	90	34.3	19.6	--	--	--	--
NK	NK28-T3XF Brand	2.8	27-Sep	82	1.0	83	*72	90	33.7	19.0	--	--	--	--
NK	NK29-A5E3 Brand	2.9	29-Sep	82	1.0	83	*71	93	33.8	19.2	--	--	--	--
O'Brien	O'SOY2120GT27LL	2.1	20-Sep	76	1.0	77	60	91	34.0	19.7	75	1.0	34.2	19.8
O'Brien	O'SOY2421GT27LL	2.4	26-Sep	81	1.0	76	69	*100	32.6	20.1	--	--	--	--
P3 Genetics	1924E	2.4	22-Sep	80	1.0	78	67	96	32.8	20.4	79	1.2	33.8	19.5
P3 Genetics	2126E	2.6	23-Sep	*87	1.0	*86	*75	*99	32.8	19.6	82	1.1	33.4	19.1
P3 Genetics	1928E	2.8	26-Sep	*84	1.0	82	68	*102	33.3	20.4	*85	1.0	33.6	19.7
P3 Genetics	2229E	2.9	27-Sep	*88	1.0	*88	69	*106	34.0	19.3	--	--	--	--

TABLE 2. CONTINUED. 2021 Southern Region Glyphosate Tolerant Soybean Trial (4 of 4)

Brand	Entry	Maturity Group	Maturity Date ¹	2021 3-Test Average		2021 Yields			2021 Composition ¹		2020 3-Test Average ²		2020 Composition ¹	
				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 (%)
Renk	RS282NXF	2.8	27-Sep	81	1.0	79	69	95	33.9	19.2	--	--	--	--
Stine	19EC12	1.9	20-Sep	*84	1.0	*92	66	94	32.8	20.3	--	--	--	--
Stine	19EC32	1.9	20-Sep	80	1.0	*87	61	93	32.2	20.2	--	--	--	--
Stine	24EA12	2.4	22-Sep	80	1.0	83	60	*99	32.6	21.0	--	--	--	--
Stine	24EE32	2.4	26-Sep	80	1.0	78	64	98	32.5	20.5	--	--	--	--
Stine	27EA23	2.7	26-Sep	*86	1.0	82	*72	*103	33.4	20.2	--	--	--	--
Stine	28EC32	2.8	29-Sep	*88	1.0	*91	*72	*102	33.2	19.6	--	--	--	--
Stine	29EB22	2.9	22-Sep	81	1.0	*90	60	92	33.0	19.9	--	--	--	--
Tracy	2442GTLL	2.4	26-Sep	76	1.0	77	60	91	33.3	19.6	--	--	--	--
Tracy	2551E	2.5	27-Sep	82	1.0	*86	64	97	32.8	21.0	*89	1.3	33.1	20.4
Tracy	2841GTLL	2.8	23-Sep	82	1.0	81	62	*102	33.8	20.0	--	--	--	--
Xitavo	XO 2181E	2.1	20-Sep	82	1.0	85	61	*101	32.5	20.6	--	--	--	--
Xitavo	XO 2282E	2.2	23-Sep	81	1.0	84	66	94	33.6	19.8	--	--	--	--
Xitavo	XO 2501E	2.5	26-Sep	83	1.0	82	*73	94	32.6	21.1	--	--	--	--
Xitavo	XO 2832E	2.8	27-Sep	*87	1.0	*92	67	*102	33.9	19.4	--	--	--	--
Mean			22-Sep	82	1.0	84	66	96	33.7	19.8	83	1.2	34.1	19.3
LSD (0.10)			--	5	NS	7	6	7	0.6	0.3	7	NS	0.5	0.3

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

¹ Maturity date, protein, and oil determined at the Arlington site.

² The three locations in 2020 included Arlington, Janesville, and Platteville

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

TABLE 3. 2021 Central Region Glyphosate Tolerant Soybean Trial (1 of 5)

Brand	Entry	Maturity Group	Maturity Date ¹	2021 Yields		2021 2-Test Average ²	2021 Composition ¹		2020 3-Test Average		2020 Composition ¹	
				Galesville (bu/A)	Hancock (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
Ag Armour	AA 1721 E3	1.7	21-Sep	73	65	1.4	35.3	18.9	--	--	--	--
Ag Armour	AA 1922E3	1.9	21-Sep	64	64	2.0	34.2	20.1	--	--	--	--
AgriGold	G1490XF	1.4	21-Sep	71	*73	1.9	33.8	19.7	--	--	--	--
AgriGold	G1720XF	1.7	17-Sep	65	*71	1.6	32.5	20.2	--	--	--	--
AgriGold	G1857E3	1.8	14-Sep	72	62	1.5	34.4	20.4	--	--	--	--
AgriGold	G2081E3	2.0	21-Sep	64	*70	1.8	33.5	20.1	--	--	--	--
AgriGold	G2095XF	2.0	21-Sep	72	60	1.0	33.3	20.4	--	--	--	--
AgriGold	G2220XF	2.2	21-Sep	60	*78	2.5	32.7	20.1	--	--	--	--
AgriGold	G2361E3	2.3	21-Sep	70	*73	1.3	34.6	19.4	--	--	--	--
Apex	AE1920	1.9	21-Sep	69	*68	1.6	32.4	20.3	--	--	--	--
Apex	AE2220	2.2	28-Sep	70	65	1.1	32.6	20.6	--	--	--	--
Asgrow	AG14XF2	1.4	17-Sep	67	*68	1.9	32.3	20.9	--	--	--	--
Asgrow	AG15XF2	1.5	14-Sep	71	*72	1.9	31.2	20.8	--	--	--	--
Asgrow	AG18XF1	1.8	17-Sep	72	*79	1.2	32.5	20.7	--	--	--	--
Asgrow	AG20XF1	2.0	21-Sep	66	*68	1.0	33.3	19.9	--	--	--	--
Asgrow	AG21XF0	2.1	21-Sep	68	*74	1.8	33.3	20.7	--	--	--	--
Asgrow	AG21XF1	2.1	21-Sep	69	58	1.1	32.8	20.2	--	--	--	--
BioGene	BG9180E3	1.8	21-Sep	68	63	1.8	34.2	20.2	--	--	--	--
Credenz	CZ 1171GTLL	1.1	14-Sep	69	*68	2.4	32.8	20.6	--	--	--	--
Credenz	CZ 1331GTLL	1.3	14-Sep	*85	*68	1.1	32.5	21.1	--	--	--	--
Credenz	CZ 2121GTLL	2.1	17-Sep	72	*68	1.4	32.1	20.9	--	--	--	--
Credenz	CZ 2550GTLL	2.5	21-Sep	55	*79	2.0	33.8	19.8	--	--	--	--
Dairyland	DSR-1290E	1.2	17-Sep	60	*71	2.5	31.1	21.2	--	--	--	--

TABLE 3. CONTINUED. 2021 Central Region Glyphosate Tolerant Soybean Trial (2 of 5)

Brand	Entry	Maturity Group	Maturity Date ¹	2021 Yields		2021 2-Test Average ²	2021 Composition ¹		2020 3-Test Average		2020 Composition ¹	
				Galesville (bu/A)	Hancock (bu/A)		Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
Dairyland	DSR-1450E	1.4	14-Sep	62	*77	2.0	32.1	21.0	--	--	--	--
Dairyland	DSR-1673E	1.6	14-Sep	75	62	1.1	32.2	20.4	77	1.0	33.6	19.3
Dairyland	DSR-1707E	1.7	21-Sep	73	58	1.4	32.7	21.3	--	--	--	--
Dairyland	DSR-1820E	1.8	17-Sep	70	54	1.1	34.6	20.1	--	--	--	--
Dairyland	DSR-2030E	2.0	21-Sep	64	*68	2.4	33.2	20.0	77	1.4	33.9	19.1
Dairyland	DSR-2040E	2.0	21-Sep	75	46	1.1	33.0	20.1	--	--	--	--
Dairyland	DSR-2222E	2.2	21-Sep	58	*69	1.3	34.8	19.6	--	--	--	--
Dyna-Gro	S17XF02	1.7	21-Sep	77	66	1.1	33.9	20.0	--	--	--	--
Dyna-Gro	S18EN52	1.8	17-Sep	73	*80	1.6	33.4	20.6	--	--	--	--
Dyna-Gro	S21EN81	2.1	17-Sep	*80	*69	2.0	32.3	20.8	--	--	--	--
Dyna-Gro	S21XF61	2.1	21-Sep	70	63	1.5	34.0	20.1	--	--	--	--
Dyna-Gro	S23ES32	2.3	24-Sep	72	*77	1.4	32.6	21.0	--	--	--	--
FS HiSOY	HS 19F10	1.9	21-Sep	63	*71	1.1	32.8	20.3	--	--	--	--
FS HiSOY	HS 21E00	2.1	21-Sep	71	64	1.6	32.6	20.7	--	--	--	--
FS HiSOY	HS 21F00	2.1	21-Sep	56	*75	2.4	32.6	20.1	--	--	--	--
FS HiSOY	HS 23F10	2.3	21-Sep	62	63	1.5	34.1	19.8	--	--	--	--
FS HiSOY	HS 24F00	2.4	21-Sep	70	61	1.0	34.2	19.5	--	--	--	--
FS HiSOY	HS 25E00	2.5	24-Sep	77	66	1.4	31.9	21.6	--	--	--	--
Genesis	G1950E	1.9	21-Sep	70	*71	1.8	34.1	19.4	--	--	--	--
Genesis	G2060E	2.0	24-Sep	59	*73	2.6	32.9	20.2	--	--	--	--
Genesis	G2150E	2.1	21-Sep	74	*79	1.5	32.6	20.5	*81	1.0	32.7	19.6
Genesis	G2260E	2.2	21-Sep	71	53	1.0	32.8	20.9	--	--	--	--

TABLE 3. CONTINUED. 2021 Central Region Glyphosate Tolerant Soybean Trial (3 of 5)

Brand	Entry	Maturity Group	Maturity Date ¹	2021 Yields		2021 2-Test Average ²	2021 Composition ¹		2020 3-Test Average		2020 Composition ¹	
				Galesville (bu/A)	Hancock (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
Golden Harvest	GH1414X Brand	1.4	17-Sep	72	58	1.5	33.1	20.5	*79	1.0	34.1	19.3
Golden Harvest	GH1442XF Brand	1.4	14-Sep	66	*76	1.6	33.7	20.0	--	--	--	--
Golden Harvest	GH1762XF Brand	1.7	21-Sep	74	65	1.8	32.8	20.7	--	--	--	--
Golden Harvest	GH1802E3 Brand	1.8	21-Sep	63	*74	1.9	33.7	20.4	--	--	--	--
Golden Harvest	GH2102XF Brand	2.1	21-Sep	64	*70	2.4	32.5	21.1	--	--	--	--
Golden Harvest	GH2292E3 Brand	2.2	21-Sep	68	*70	1.6	34.4	19.8	--	--	--	--
Golden Harvest	GH2329X Brand	2.3	21-Sep	58	67	2.3	33.7	20.4	77	1.2	33.6	20.1
Golden Harvest	GH2442E3 Brand	2.4	21-Sep	74	*79	1.1	35.7	19.5	--	--	--	--
Impact	20E245N	2.0	21-Sep	69	67	2.0	32.6	20.1	--	--	--	--
Jung	1203R2X	2.0	21-Sep	73	*70	1.0	34.0	19.9	*79	1.0	34.6	19.2
Jung	1227XF	2.2	21-Sep	69	55	1.5	31.9	20.9	--	--	--	--
Jung	1243R2X	2.4	24-Sep	69	65	1.5	33.9	19.4	*80	1.0	34.7	18.9
Legacy Seeds	LS174-20	1.7	21-Sep	70	*70	1.6	32.7	20.3	--	--	--	--
Legacy Seeds	LS184-21	1.8	21-Sep	75	67	1.3	31.9	21.2	--	--	--	--
Legacy Seeds	LS204-21	2.0	21-Sep	60	*74	1.4	33.3	20.0	--	--	--	--
Legacy Seeds	LS224-20	2.2	21-Sep	72	66	1.1	33.5	20.2	--	--	--	--
LG Seeds	LGS2025XF	2.0	21-Sep	71	67	1.0	33.4	20.2	--	--	--	--
LG Seeds	LGS2215XF	2.2	21-Sep	68	*69	2.1	32.2	20.4	--	--	--	--
Loyal Brand	L1540E	1.5	21-Sep	68	*77	1.0	32.9	20.5	--	--	--	--
Loyal Brand	L1740E	1.7	17-Sep	62	*73	1.6	32.2	20.8	--	--	--	--
Loyal Brand	L1940E	1.9	21-Sep	65	*74	2.5	33.2	20.0	--	--	--	--
Loyal Brand	L2130E	2.1	21-Sep	*83	61	1.5	31.9	21.0	--	--	--	--

TABLE 3. CONTINUED. 2021 Central Region Glyphosate Tolerant Soybean Trial (4 of 5)

Brand	Entry	Maturity Group	Maturity Date ¹	2021 Yields		2021 2-Test Average ²	2021 Composition ¹		2020 3-Test Average		2020 Composition ¹	
				Galesville (bu/A)	Hancock (bu/A)		Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
Loyal Brand	L2240E	2.2	24-Sep	*79	64	1.0	33.5	20.2	--	--	--	--
NK	NK08-V9E3 Brand	0.8	8-Sep	70	51	1.3	33.7	19.8	--	--	--	--
NK	NK08-B7XF Brand	0.8	10-Sep	60	67	2.6	33.1	19.7	--	--	--	--
NK	NK10-W8XF Brand	1.0	8-Sep	63	58	2.3	32.9	20.1	--	--	--	--
NK	NK14-W6E3 Brand	1.4	14-Sep	66	*75	2.0	34.0	20.0	--	--	--	--
NK	NK14-C7XF Brand	1.4	14-Sep	67	*74	1.8	33.8	19.9	--	--	--	--
NK	S17-E3 Brand	1.7	14-Sep	72	62	1.0	32.2	20.6	--	--	--	--
NK	NK17-M2XF Brand	1.7	17-Sep	70	67	1.6	33.1	20.5	--	--	--	--
NK	NK18-J7E3 Brand	1.8	21-Sep	67	59	1.8	33.9	20.6	--	--	--	--
NK	NK19-C8XF Brand	1.9	21-Sep	58	64	1.6	35.2	19.5	--	--	--	--
NK	NK21-H4XF Brand	2.1	21-Sep	71	*75	2.3	32.6	20.7	--	--	--	--
NK	NK22-C4E3 Brand	2.2	21-Sep	74	62	1.0	33.5	20.4	--	--	--	--
NK	NK24-G7E3 Brand	2.4	21-Sep	73	*80	1.1	34.8	19.7	--	--	--	--
O'Brien	O'SOY1620GT27LL	1.6	14-Sep	76	60	1.0	32.4	20.9	*78	1.0	33.3	20.2
O'Brien	O'SOY2120GT27LL	2.1	21-Sep	73	*69	1.0	33.9	19.9	*80	1.0	33.7	19.6
ProHarvest	EXF21201	2.0	21-Sep	64	*68	1.5	32.8	20.2	--	--	--	--
Renk	RS219NX	2.1	21-Sep	72	*73	1.0	33.8	20.2	--	--	--	--
Renk	RS212NXF	2.1	21-Sep	59	*76	1.6	35.4	19.8	--	--	--	--
Renk	RS248NX	2.4	21-Sep	65	*75	1.9	33.7	20.0	*84	1.0	34.3	19.3
Stine	16EC32	1.6	17-Sep	73	61	1.0	34.1	20.0	--	--	--	--
Stine	19EC12	1.9	21-Sep	72	67	1.4	32.7	20.7	--	--	--	--
Stine	19EC32	1.9	21-Sep	71	56	1.1	32.7	19.7	--	--	--	--

TABLE 3. CONTINUED. 2021 Central Region Glyphosate Tolerant Soybean Trial (5 of 5)

Brand	Entry	Maturity Group	Maturity Date ¹	2021 Yields		2021 2-Test Average ²	2021 Composition ¹		2020 3-Test Average		2020 Composition ¹	
				Galesville (bu/A)	Hancock (bu/A)		Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
Stine	24EA12	2.4	21-Sep	65	65	2.3	32.8	21.4	--	--	--	--
Stine	24EE32	2.4	21-Sep	61	60	1.3	30.9	21.7	--	--	--	--
Tracy	1252E	1.2	14-Sep	63	*69	2.4	31.6	21.3	--	--	--	--
Tracy	1641GTLL	1.6	17-Sep	*79	63	1.1	32.3	21.0	*82	1.0	33.7	20.3
Tracy	2142GTLL	2.1	17-Sep	66	66	1.0	32.5	20.7	*81	1.0	32.9	19.9
Tracy	2452E	2.4	24-Sep	73	62	1.3	32.1	21.8	--	--	--	--
Xitavo	X0 1212E	1.2	17-Sep	59	58	2.3	35.0	20.0	--	--	--	--
Xitavo	X0 1372E	1.3	17-Sep	66	*76	1.4	32.0	21.1	--	--	--	--
Xitavo	X0 1632E	1.6	17-Sep	70	64	1.4	32.7	20.9	--	--	--	--
Xitavo	X0 1761E	1.7	21-Sep	75	55	1.0	35.0	19.7	--	--	--	--
Xitavo	X0 1822E	1.8	21-Sep	63	*74	2.0	31.9	20.8	--	--	--	--
Xitavo	X0 2181E	2.1	17-Sep	77	67	1.5	32.3	20.7	--	--	--	--
Xitavo	X0 2282E	2.2	24-Sep	73	*76	1.1	33.5	20.1	--	--	--	--
Mean			19-Sep	69	67	1.6	33.1	20.3	78	1.0	34.0	19.6
LSD (0.10)			--	7	12	NS	0.8	0.5	7	0.2	0.7	0.3

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

¹ Maturity date, protein, and oil determined at the Hancock site.

² The Fond du Lac site was lost to a May 29th killing frost. The 2021 multi-test yield column is not presented because yields at the Hancock site were highly variable due to undetermined field variation.

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

TABLE 4. 2021 North Central Region Glyphosate Tolerant Soybean Trial (1 of 3)

Brand	Entry	Maturity Group	Maturity Date ¹	2021 3-Test Average		2021 Yields			2021 Composition ¹		2020 3-Test Average		2020 Composition ¹	
				Yield (bu/A)	Lodging (1-5)	Marshfield (bu/A)	Menomonie (bu/A)	Seymour (bu/A)	Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
Apex	AE1300	1.3	27-Sep	*81	1.9	80	*84	*78	36.0	17.6	64	1.0	34.5	18.4
Apex	AE1410	1.4	27-Sep	77	1.8	79	75	*77	35.3	18.8	56	1.0	33.4	19.2
Apex	AE1710	1.6	27-Sep	75	1.6	74	*79	72	35.8	17.7	62	1.0	33.6	18.5
Apex	AE1920	1.9	29-Sep	77	2.2	68	*82	*79	35.3	17.6	--	--	--	--
Asgrow	AG13XF0	1.3	24-Sep	*78	1.8	75	*80	*78	35.3	17.8	--	--	--	--
Asgrow	AG14XF2	1.4	24-Sep	72	2.3	65	75	75	35.0	18.7	--	--	--	--
Asgrow	AG15XF2	1.5	27-Sep	77	2.2	70	77	*85	33.7	18.6	--	--	--	--
BioGene	BG9150E3	1.5	24-Sep	71	1.8	58	*80	73	35.5	18.3	--	--	--	--
Credenz	CZ 0661GTLL	0.6	20-Sep	74	1.7	69	*82	72	35.9	18.8	--	--	--	--
Credenz	CZ 1171GTLL	1.1	20-Sep	77	1.8	75	*81	76	34.7	18.5	--	--	--	--
Credenz	CZ 1331GTLL	1.3	27-Sep	*82	1.7	*88	*83	74	35.0	18.6	--	--	--	--
Dairyland	DSR-0847E	0.8	24-Sep	74	1.9	72	*79	71	34.9	18.7	57	1.0	34.2	19.5
Dairyland	DSR-0920E	0.9	24-Sep	68	1.9	63	73	68	36.9	17.5	66	1.0	35.1	18.7
Dairyland	DSR-1010E	1.0	20-Sep	74	1.7	66	*80	75	36.8	17.5	--	--	--	--
Dairyland	DSR-1290E	1.2	24-Sep	76	2.5	73	*83	73	34.1	19.1	--	--	--	--
Dairyland	DSR-1318E	1.3	27-Sep	70	2.3	66	75	69	36.2	16.7	*67	1.0	34.0	18.0
Dairyland	DSR-1450E	1.4	27-Sep	*81	2.1	79	*85	76	34.0	19.1	--	--	--	--
Dairyland	DSR-1707E	1.7	27-Sep	71	1.8	64	*80	68	35.1	18.9	--	--	--	--
Dyna-Gro	S15XF82	1.5	24-Sep	*82	1.6	*86	*78	*82	35.9	17.5	--	--	--	--
Dyna-Gro	S17XF02	1.7	27-Sep	*79	1.5	*83	*79	74	35.9	17.7	--	--	--	--
Federal Hybrids	F0920N RXF	0.9	17-Sep	68	2.4	62	67	74	34.4	18.7	--	--	--	--
Federal Hybrids	F1120N RXF	1.1	24-Sep	71	1.8	75	72	67	36.0	18.1	--	--	--	--
Federal Hybrids	F1310N RXF	1.3	24-Sep	71	1.8	69	74	69	34.3	18.7	--	--	--	--
Federal Hybrids	F1520N RXF	1.5	24-Sep	77	2.1	74	77	*78	35.1	17.9	--	--	--	--
Federal Hybrids	F1720N RXF	1.7	20-Sep	61	2.0	61	64	56	34.8	18.0	--	--	--	--
Genesis	G1560E	1.5	24-Sep	72	1.9	63	*82	72	35.0	18.6	--	--	--	--
Genesis	G1760E	1.7	27-Sep	69	2.1	55	*82	69	34.6	18.7	--	--	--	--

TABLE 4. CONTINUED. 2021 North Central Region Glyphosate Tolerant Soybean Trial (2 of 3)

Brand	Entry	Maturity Group	Maturity Date ¹	2021 3-Test Average		2021 Yields			2021 Composition ¹		2020 3-Test Average		2020 Composition ¹	
				Yield (bu/A)	Lodging (1-5)	Marshfield (bu/A)	Menomonie (bu/A)	Seymour (bu/A)	Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
Golden Harvest	GH1414X Brand	1.4	24-Sep	*81	1.4	80	*79	*82	35.9	17.9	*72	1.0	34.3	18.7
Golden Harvest	GH1442XF Brand	1.4	24-Sep	*80	1.8	82	76	*83	35.6	18.0	--	--	--	--
Golden Harvest	GH1802E3 Brand	1.8	24-Sep	*83	1.7	*84	*80	*86	36.5	18.2	--	--	--	--
Impact	13E245N	1.3	27-Sep	69	2.1	61	*82	63	37.0	17.9	--	--	--	--
Impact	16LGT035N	1.6	27-Sep	76	1.8	77	*82	67	35.0	18.8	--	--	--	--
Impact	18E245N	1.8	24-Sep	67	2.2	61	70	70	35.7	18.3	--	--	--	--
Jung	1135XF	1.3	24-Sep	76	1.9	72	*81	75	34.2	18.7	--	--	--	--
Jung	1161R2X	1.6	27-Sep	69	1.4	56	75	75	35.7	18.3	*70	1.0	34.3	18.9
Jung	1182R2X	1.8	27-Sep	72	2.0	55	*85	76	34.6	18.2	--	--	--	--
Legacy Seeds	LS124-21	1.2	24-Sep	71	1.9	65	72	*77	35.1	18.0	--	--	--	--
Legacy Seeds	LS134-20	1.3	20-Sep	75	2.0	80	76	68	34.9	18.5	--	--	--	--
Legacy Seeds	LS174-20	1.7	27-Sep	77	1.8	*85	68	*78	34.9	18.3	--	--	--	--
Legacy Seeds	LS184-21	1.8	27-Sep	*80	2.0	*86	74	*80	34.5	18.3	--	--	--	--
LG Seeds	LGS1848XF	1.8	24-Sep	*81	1.9	77	*88	*79	35.5	17.8	--	--	--	--
Loyal Brand	L1230E	1.2	27-Sep	*81	2.3	*88	76	*80	33.5	19.4	--	--	--	--
Loyal Brand	L1440E	1.4	27-Sep	75	1.8	77	71	*78	34.1	19.1	--	--	--	--
Loyal Brand	L1540E	1.5	27-Sep	76	1.8	75	75	*79	35.6	18.4	--	--	--	--
Loyal Brand	L1740E	1.7	24-Sep	73	2.5	74	72	74	35.4	18.4	--	--	--	--
Loyal Brand	L1940E	1.9	29-Sep	*78	2.2	*85	74	*77	34.8	18.0	--	--	--	--
NK	NK02-M4XF Brand	0.2	17-Sep	57	2.5	55	66	51	34.1	18.8	--	--	--	--
NK	NK04-G8E3 Brand	0.4	17-Sep	67	2.4	65	72	63	36.5	18.4	--	--	--	--
NK	NK05-W3XF Brand	0.5	17-Sep	73	3.1	78	66	76	35.3	17.7	--	--	--	--
NK	NK08-V9E3 Brand	0.8	17-Sep	69	1.6	69	74	65	35.8	17.6	--	--	--	--
NK	NK08-B7XF Brand	0.8	17-Sep	75	2.9	73	77	75	34.6	17.9	--	--	--	--
NK	NK10-W8XF Brand	1.0	17-Sep	*79	2.4	82	75	*82	35.2	17.6	--	--	--	--
NK	NK14-W6E3 Brand	1.4	27-Sep	*82	1.8	*83	*83	*81	34.5	18.8	--	--	--	--
NK	NK14-C7XF Brand	1.4	20-Sep	*82	1.8	79	*84	*85	35.6	17.9	--	--	--	--

TABLE 4. CONTINUED. 2021 North Central Region Glyphosate Tolerant Soybean Trial (3 of 3)

Brand	Entry	Maturity Group	Maturity Date ¹	2021 3-Test Average		2021 Yields			2021 Composition ¹		2020 3-Test Average		2020 Composition ¹	
				Yield (bu/A)	Lodging (1-5)	Marshfield (bu/A)	Menomonie (bu/A)	Seymour (bu/A)	Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
NK	NK17-M2XF Brand	1.7	27-Sep	*85	1.7	*88	*84	*82	35.8	17.8	--	--	--	--
NK	NK18-J7E3 Brand	1.8	27-Sep	*85	1.8	*89	*81	*85	35.9	18.3	--	--	--	--
O'Brien	O'SOY1620GT27LL	1.6	27-Sep	72	1.4	77	73	66	34.6	18.8	*69	1.0	34.5	19.4
ProHarvest	EXF21112	1.1	20-Sep	75	2.5	*85	71	70	35.6	18.1	--	--	--	--
ProHarvest	1638X	1.6	24-Sep	*78	1.9	77	*83	75	37.1	17.9	*67	1.0	36.5	18.3
ProHarvest	17F27	1.7	27-Sep	77	1.6	82	74	76	35.3	18.0	--	--	--	--
Renk	RS142NXF	1.4	24-Sep	71	1.9	70	75	68	35.0	17.9	--	--	--	--
Renk	RS150NX	1.5	24-Sep	73	1.7	65	*80	72	34.6	18.8	*72	1.0	34.3	19.5
Stine	11EC02	1.1	20-Sep	*79	2.2	78	*78	*81	33.8	19.1	--	--	--	--
Stine	12EB32	1.2	27-Sep	74	2.1	72	*81	69	35.6	17.9	65	1.0	34.2	18.5
Stine	16EC32	1.6	27-Sep	76	1.8	69	*84	75	36.2	17.5	--	--	--	--
Xitavo	XO 0602E	0.6	17-Sep	68	1.3	66	75	64	35.1	17.8	--	--	--	--
Xitavo	XO 0731E	0.7	20-Sep	76	1.7	80	*78	70	36.3	18.2	--	--	--	--
Xitavo	XO 1212E	1.2	27-Sep	76	1.8	77	*78	75	37.2	17.7	--	--	--	--
Xitavo	XO 1372E	1.3	24-Sep	*86	2.2	*91	*83	*85	34.2	18.9	--	--	--	--
Xitavo	XO 1632E	1.6	27-Sep	*79	1.8	74	*81	*83	35.5	18.6	--	--	--	--
Mean			24-Sep	75	1.9	74	77	74	35.3	18.2	66	1.0	34.4	19.0
LSD (0.10)			--	8	0.7	8	10	9	0.6	0.4	7	--	0.5	0.3

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

¹ Maturity date, protein, and oil determined at the Marshfield site.

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

TABLE 5. Northern Region Glyphosate Tolerant & Arlington Early MG Soybean Trial (1 of 2)

Brand	Entry	Maturity Group	2021 3-Test Average			2021 Yields			2021 Arlington ¹		2021 Composition ²		2020 3-Test Average		2020 Composition ²	
			Maturity Date	Yield (bu/A)	Lodging (1-5)	Marshfield (bu/A)	Spooner Dryland (bu/A)	Spooner Irrigated (bu/A)	Maturity Date	Yield (bu/A)	Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
Apex	AE0720	0.7	17-Sep	56	1.0	63	49	56	5-Sep	66	35.0	18.1	--	--	--	--
Apex	AE1300	1.3	22-Sep	62	1.0	*80	49	56	13-Sep	*78	35.7	17.8	*60	1.0	34.7	18.3
Asgrow	AG09XF0	0.9	19-Sep	58	1.2	62	*55	57	10-Sep	67	35.4	18.3	--	--	--	--
BioGene	BG9100E3	1.0	19-Sep	56	1.0	54	*59	56	7-Sep	68	36.4	17.7	51	1.0	35.7	18.2
Cornelius	CB07R77	0.7	20-Sep	59	1.4	65	*56	56	11-Sep	69	35.4	18.1	*60	1.0	34.1	19.6
Credenz	CZ 0661GTLL	0.6	19-Sep	62	1.0	70	*59	56	10-Sep	65	35.3	19.0	--	--	--	--
Dairyland	DSR-0660E	0.6	19-Sep	53	1.2	55	*56	48	10-Sep	69	34.5	18.3	--	--	--	--
Dairyland	DSR-0847E	0.8	20-Sep	59	1.3	69	50	57	10-Sep	71	35.1	18.5	58	1.0	34.5	19.3
Dairyland	DSR-0920E	0.9	22-Sep	58	1.0	62	*57	56	10-Sep	73	36.4	17.5	*59	1.0	35.1	18.7
Dairyland	DSR-1010E	1.0	19-Sep	59	1.2	65	*55	56	7-Sep	72	36.1	17.6	--	--	--	--
Genesis	G0750E	0.7	18-Sep	62	1.1	*78	51	58	5-Sep	69	36.1	18.2	--	--	--	--
Golden Harvest	GH0822XF Brand	0.8	18-Sep	*65	1.3	*80	54	*62	10-Sep	72	34.4	18.0	--	--	--	--
Golden Harvest	GH1032XF Brand	1.0	17-Sep	*65	1.0	*78	*58	60	7-Sep	69	35.3	17.6	--	--	--	--
Impact	12E157N	1.2	22-Sep	*65	1.3	*79	*56	*61	13-Sep	*77	33.6	19.2	--	--	--	--
Jung	1063XF	0.6	19-Sep	48	1.0	50	44	50	5-Sep	65	35.1	17.9	--	--	--	--
Jung	1072R2X	0.7	17-Sep	60	1.4	67	*57	54	6-Sep	69	33.4	18.6	*63	1.0	33.7	19.5
Jung	1104XF	1.0	24-Sep	58	1.1	63	54	56	11-Sep	*76	35.4	18.1	--	--	--	--
Legacy Seeds	LS094-20	0.9	17-Sep	63	1.3	77	53	58	5-Sep	66	36.2	17.9	--	--	--	--
Legacy Seeds	LS-1039	1.0	19-Sep	*68	1.2	*87	*56	*62	7-Sep	68	35.2	18.8	*66	1.0	34.3	19.8
Legacy Seeds	LS104-21	1.0	21-Sep	*69	1.5	*86	*60	*62	11-Sep	72	35.3	18.1	--	--	--	--
Legacy Seeds	LS124-21	1.2	25-Sep	57	1.1	72	49	52	15-Sep	73	34.7	18.3	--	--	--	--
LG Seeds	LGS0701XF	0.7	17-Sep	63	1.6	74	*60	56	9-Sep	70	34.8	18.0	--	--	--	--
LG Seeds	LGS1203E3	1.2	27-Sep	63	1.1	*80	52	59	--	--	37.3	17.6	--	--	--	--

TABLE 5. CONTINUED. Northern Region Glyphosate Tolerant & Arlington Early MG Soybean Trial (2 of 2)

Brand	Entry	Maturity Group	2021 3-Test Average			2021 Yields			2021 Arlington ¹		2021 Composition ²		2020 3-Test Average		2020 Composition ²	
			Maturity Date	Yield (bu/A)	Lodging (1-5)	Marshfield (bu/A)	Spooner Dryland (bu/A)	Spooner Irrigated (bu/A)	Maturity Date	Yield (bu/A)	Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
Loyal Brand	L1230E	1.2	20-Sep	*72	1.3	*89	*63	*64	17-Sep	*78	33.8	19.1	--	--	--	--
Loyal Brand	L1440E	1.4	28-Sep	64	1.1	*80	*59	54	16-Sep	*81	33.6	19.2	--	--	--	--
NK	NK02-M4XF Brand	0.2	11-Sep	53	1.2	59	46	54	30-Aug	55	33.8	19.2	--	--	--	--
NK	NK04-G8E3 Brand	0.4	15-Sep	56	1.0	60	51	56	30-Aug	59	36.7	18.2	--	--	--	--
NK	NK05-W3XF Brand	0.5	15-Sep	62	1.2	74	53	59	6-Sep	64	35.0	17.9	--	--	--	--
NK	NK08-V9E3 Brand	0.8	18-Sep	59	1.0	72	49	56	4-Sep	69	35.3	17.8	--	--	--	--
NK	NK08-B7XF Brand	0.8	18-Sep	63	1.3	75	53	*61	11-Sep	70	34.5	17.8	--	--	--	--
NK	NK10-W8XF Brand	1.0	17-Sep	*66	1.5	*87	54	59	9-Sep	72	35.4	17.5	--	--	--	--
ProHarvest	0985CR2Y	0.9	19-Sep	*72	1.0	*87	*62	*66	5-Sep	68	35.0	18.8	*69	1.0	33.9	19.9
ProHarvest	EXF21112	1.1	21-Sep	63	1.2	74	*59	57	10-Sep	71	35.6	18.1	--	--	--	--
Renk	RS100NX	1.0	20-Sep	58	1.0	59	*58	56	6-Sep	71	34.0	18.7	--	--	--	--
Stine	09EA02	0.9	20-Sep	59	1.2	71	52	54	7-Sep	72	36.3	17.6	*60	1.0	35.4	18.8
Stine	11EC02	1.1	22-Sep	*70	1.2	*86	*64	*62	7-Sep	73	32.9	19.5	--	--	--	--
Xitavo	XO 0602E	0.6	19-Sep	56	1.0	72	44	55	7-Sep	68	35.3	18.0	--	--	--	--
Xitavo	XO 0731E	0.7	19-Sep	*66	1.0	*83	*59	58	7-Sep	69	35.2	18.6	--	--	--	--
Mean			19-Sep	61	1.2	72	55	57	8-Sep	70	35.1	18.2	59	1.0	34.3	19.3
LSD (0.10)			2	7	NS	11	9	5	--	6	0.7	0.4	10	--	0.5	0.4

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

¹ All varieties entered in the Northern region were also planted in a fourth trial in Arlington to evaluate how early maturity groups perform in the southern region. These results are separate from the northern region overall analysis.

² Protein, and oil determined at the Marshfield site.

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

TABLE 6. 2021 Southern Conventional Soybean Trial

					2021 2-Test Average		2021 Yields		2021 Composition ²		2020 2-Test Average		2020 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 (%)
Legacy Seeds	LS187-21C	CN	1.8	27-Sep	83	1.0	72	95	35.6	18.6	--	--	--	--
Legacy Seeds	LS201-21C	CN	2.0	22-Sep	86	1.0	76	96	33.5	19.6	--	--	--	--
Legacy Seeds	LS210-21C	CN	2.1	26-Sep	*88	1.0	75	*102	33.8	20.0	--	--	--	--
Legacy Seeds	LS227-21C	CN	2.2	26-Sep	*92	1.0	*79	*105	35.2	18.1	--	--	--	--
Legacy Seeds	LS231-21C	CN	2.3	27-Sep	86	1.0	*77	95	33.7	19.2	--	--	--	--
Legacy Seeds	LS155-21C	CN	2.5	26-Sep	81	1.0	68	94	36.6	19.1	--	--	--	--
Legacy Seeds	LS260-21C	CN	2.6	26-Sep	*87	1.0	*78	96	33.7	20.3	--	--	--	--
Public	MN1410	CN	1.4	17-Sep	69	1.5	59	79	36.0	19.8	65	1.8	35.6	19.9
SB&B	SB700	CN	0.7	11-Sep	63	1.0	53	74	37.4	19.0	--	--	--	--
SB&B	SB0718	CN	0.8	11-Sep	62	1.4	53	72	35.2	20.0	--	--	--	--
SB&B	SB1270	CN	1.2	13-Sep	71	1.3	57	84	34.8	20.0	54	1.0	36.0	19.4
SB&B	SB712	CN	1.2	11-Sep	72	1.3	62	81	37.9	18.8	67	1.3	38.5	18.9
SB&B	SB19	CN	1.5	17-Sep	74	1.3	65	82	35.0	19.4	67	2.1	34.7	19.9
Sevita	Candor	CN	1.9	22-Sep	78	1.5	70	86	38.6	18.0	72	2.0	37.9	18.6
Viking	0.E1993N	CN	1.9	20-Sep	77	1.0	68	85	34.7	19.3	70	1.0	34.5	19.0
Viking	0.2155N	CN	2.1	27-Sep	*88	1.0	75	*100	35.2	18.2	*83	1.6	35.0	17.9
Viking	0.2244AT	CN	2.2	22-Sep	78	1.0	72	85	35.8	19.6	77	1.9	35.2	19.8
Viking	2340KN	CN	2.3	27-Sep	*87	1.0	*79	95	33.2	20.2	*85	1.1	33.7	19.7
Viking	0.2418N	CN	2.4	23-Sep	*89	1.0	*79	*99	34.5	18.8	*85	1.5	34.6	18.6
Viking	0.2702	CN	2.7	27-Sep	82	1.1	76	88	35.6	19.6	*87	1.0	35.8	19.5
Check	11953	E3	2.1	20-Sep	*90	1.0	*83	*98	33.1	20.2	--	--	--	--
Check	11547	RR2X	2.4	26-Sep	*88	1.0	*79	96	34.8	19.1	--	--	--	--
Check	11882	LLGT27	2.7	27-Sep	*92	1.0	*83	*100	34.4	19.7	--	--	--	--
Mean				21-Sep	81	1.1	71	91	35.1	19.3	79	1.3	35.0	19.5
LSD (0.10)				--	5	NS	6	7	0.5	0.3	9	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 : CN = conventional, RR2X = glyphosate/dicamba, E3 = glufosinate/glyphosate/2,4-D, LLGT27 = glufosinate/glyphosate/isoxaflutole

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

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

TABLE 7. 2021 North Central Conventional Soybean Trial

Brand	Entry	Herbicide Trait ¹	Maturity Group	2021 Menomonie					2020 Menomonie			
				Maturity Date	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
Legacy Seeds	LS151-21C	CN	1.5	18-Sep	*74	3.0	33.5	18.8	--	--	--	--
Legacy Seeds	LS187-21C	CN	1.8	23-Sep	73	4.3	35.8	17.8	--	--	--	--
Legacy Seeds	LS201-21C	CN	2.0	27-Sep	*80	2.5	33.1	19.2	--	--	--	--
Legend Seeds	LS 0380 HP	CN	0.3	13-Sep	63	5.0	37.7	17.9	--	--	--	--
Legend Seeds	LS 0702 HP	CN	0.7	11-Sep	60	3.8	36.1	18.2	--	--	--	--
Legend Seeds	LS 10C153N	CN	1.0	17-Sep	62	3.3	37.0	18.2	--	--	--	--
Public	MN1410	CN	1.4	20-Sep	68	3.8	35.5	19.2	62	1.0	34.5	19.8
SB&B	SB700	CN	0.7	6-Sep	61	3.5	36.9	18.2	--	--	--	--
SB&B	SB0718	CN	0.8	10-Sep	61	4.0	35.9	18.8	--	--	--	--
SB&B	SB1270	CN	1.2	19-Sep	67	4.8	35.3	18.8	60	1.0	34.8	19.0
SB&B	SB712	CN	1.2	14-Sep	70	3.5	36.8	18.1	*69	1.0	36.7	18.6
SB&B	SB19	CN	1.5	23-Sep	62	4.3	34.9	18.3	61	1.0	34.4	18.3
Sevita	Skyline	CN	1.1	12-Sep	64	5.0	37.2	18.8	60	1.0	37.6	18.7
Sevita	Candor	CN	1.9	21-Sep	66	4.0	38.0	17.7	65	1.0	37.4	17.6
Viking	0.0821N	CN	0.8	19-Sep	*75	4.0	35.5	18.4	--	--	--	--
Viking	1218N	CN	1.2	16-Sep	*77	2.0	35.5	18.4	*72	1.0	34.4	18.8
Viking	0.1202N	CN	1.2	17-Sep	71	4.3	35.9	18.0	*67	1.0	35.3	18.1
Viking	0.1518N	CN	1.5	18-Sep	*74	3.5	36.0	18.0	*67	1.0	35.1	18.2
Viking	0.1718N	CN	1.7	23-Sep	73	3.8	33.7	19.3	--	--	--	--
Check	11889	E3	1.3	15-Sep	66	4.0	35.3	17.7	--	--	--	--
Check	11969	RR2X	1.4	20-Sep	*75	2.5	34.5	18.5	--	--	--	--
Check	11774	RR2X	1.5	16-Sep	*85	3.0	33.8	19.4	--	--	--	--
Check	11962	LLGT27	1.6	25-Sep	*77	1.5	35.1	19.0	--	--	--	--
Mean				17-Sep	70	3.6	35.6	18.4	67	1.0	35.0	18.8
LSD (0.10)				--	11	1.0	1.2	0.4	7	--	0.6	0.3

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

¹ 1 Herbicide Trait : CN = conventional, RR2X = glyphosate/dicamba, E3 = glufosinate/glyphosate/2,4-D, LLGT27 = glufosinate/glyphosate/isoxaflutole

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

TABLE 8.
2021 Seed Source for
Soybean Entries

Brand	Company	Phone Number	Website
Ag Armour	Ag Armour Seeds	(989) 227-0277	ag-armourseeds.com
AgriGold	AgriGold Hybrids	(618) 292-5844	www.agrigold.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
Burrus	Burrus Bros & Associated Growers	(815) 338-1141	burrusseed.com
Cornelius	Cornelius Seed	(563) 672-3463	www.corneliusseed.com
Credenz	BASF	(309) 212-5454	credenz.us
Dairyland	Dairyland Seed	(800) 236-0163	www.dairylandseed.com
DONMARIO	GDM Seeds	(618) 444-6037	gdmseeds.com/brand-region/usa-en
Dyna-Gro	Dyna-Gro Seed	(608) 822-5000	www.dynagroseed.com
Federal Hybrids	Federal Hybrids, Inc.	(712) 830-9742	www.federalhybrids.com
FS HiSOY	GROWMARK, Inc.	(309) 242-3439	www.fsseeds.com
Genesis	MS Technologies	(608) 513-0293	www.renkseed.com
Golden Harvest	Golden Harvest	(920) 889-5509	www.goldenharvestseeds.com
Impact	Legend Seeds Inc.	(608) 577-8132	www.legendseeds.net
Jung	Jung Seed Genetics	(515) 205-3354	www.jungseedgenetics.com
Legacy Seeds	Legacy Seeds Inc.	(866) 791-6390	www.legacyseeds.com
Legend Seeds	Legend Seeds Inc.	(608) 577-8132	www.legendseeds.net
LG Seeds	LG Seeds	(320) 894-6145	www.lgseeds.com
Loyal Brand	MS Technologies	(866) 791-6390	www.legacyseeds.com
Mustang	Legend Seeds Inc.	(608) 577-8132	www.mustangseeds.com
NK	Syngenta	(262) 220-3015	www.nksoybeans.com
O'Brien	O'Brien Hybrids	(608) 576-3685	www.obrienhybrids.com
P3 Genetics	MS Technologies	--	www.corneliusseed.com
ProHarvest	Brunner Seed Inc.	(715) 672-5887	www.brunnerseed.com
Public	WI Foundation Seeds	(608) 262-9954	www.wisconsinfoundationseeds.wisc.edu
Renk	Renk Seed	(608) 513-0293	www.renkseed.com
SB&B	SB&B Foods Inc.	(715) 928-1623	sb-b.com
Sevita	Sevita International	(226) 627-2341	sevita.com
Stine	Stine Seed Company	(515) 677-2605	www.stinseed.com
Tracy	Tracy Seeds, LLC	(608) 752-2767	www.tracyseeds.com
Viking	Albert Lea Seed	(800) 352-5247	www.alseed.com
Xitavo	MS Technologies	(309) 212-5454	xitavosoybeanseed.com

TABLE 9. 2021 Temperature and Precipitation Summary

	Average Mean Temperature (° F)					Total Precipitation (inches)						
Trial Location		May	June	July	August	September		May	June	July	August	September
Arlington		57.1	71.2	71.2	71.5	63.7		2.4	3.5	1.3	4.2	2.4
	Departure	-0.4	3.7	0.2	2.5	2.3	Departure	-1.9	-1.6	-2.9	0.4	-0.9
Clinton		57.4	72.1	70.7	71.4	65.1		1.8	2.2	4.0	3.0	0.5
	Departure	-0.7	4.0	-0.7	2.0	2.6	Departure	-2.4	-3.3	0.3	-1.2	-3.3
Fond du Lac		57.6	71.9	71.5	73.0	65.0		3.6	3.4	6.4	5.4	2.0
	Departure	1.7	5.9	1.3	4.6	4.1	Departure	0.1	-0.9	2.8	2.0	-1.2
Galesville (Trempealeau)		58.6	74.2	73.6	72.0	64.3		3.2	6.2	5.5	9.4	1.4
	Departure	-0.2	5.8	1.2	1.8	1.8	Departure	-1.3	1.9	0.8	5.4	-2.4
Hancock*		55.8	70.2	69.8	69.6	61.0		2.6	4.7	4.8	9.3	0.5
	Departure	-0.8	3.9	-0.3	1.3	0.6	Departure	-1.6	-0.2	0.7	5.2	-2.8
							Irrigation	1.1	4.2	4.0	2.0	1.0
Marshfield		55.1	68.9	69.4	68.5	61.0		4.0	6.5	4.4	10.0	1.2
	Departure	-0.6	3.4	-0.3	1.0	1.7	Departure	-0.1	1.7	0.6	6.0	-2.7
Menomonie*		55.1	72.0	71.4	69.3	61.9		3.7	3.2	3.2	8.9	2.0
	Departure	-1.2	5.7	0.8	1.0	1.7	Departure	-0.8	-1.9	-0.9	4.9	-1.6
							Irrigation	0.0	0.7	3.0	3.7	0.7
Platteville (Lancaster)		57.8	71.9	71.8	71.7	64.2		2.9	1.7	4.8	5.2	1.4
	Departure	-0.3	4.1	0.4	2.2	2.3	Departure	-1.5	-4.2	-0.3	1.4	-2.6
Seymour (Green Bay)		56.8	71.0	70.4	71.1	62.7		2.2	4.7	4.4	8.3	1.2
	Departure	0.3	4.6	-0.1	2.5	1.7	Departure	-1.2	0.6	0.8	4.9	-2.0
Spooner*		54.6	69.8	69.9	68.9	60.0		2.4	1.8	3.3	1.9	3.0
	Departure	-0.6	4.9	0.9	1.8	1.2	Departure	-1.7	-2.5	-0.7	-2.0	-0.6
							Irrigation	0.0	0.8	1.3	0.8	0.0

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

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

TABLE 10. 2021 Characteristics of Soybean Varieties (1 of 10)

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
Ag Armour	AA 1721 E3	1.7	E3	2,3	Ag Armour Elite	PI 88788	Rps 3-a	P	G	T	BF
Ag Armour	AA 1922E3	1.9	E3	3	Ag Armour Elite	PI 88788	Rps 1-k	P	G	BR	BF
AgriGold	G1490XF	1.4	XF	3	AgriShield Max, Saltro	PI 88788	Rps 3-a	P	LTW	BR	BR
AgriGold	G1720XF	1.7	XF	3	AgriShield Max, Saltro	PI 88788	Rps 1-c	P	LTW	T	BL
AgriGold	G1857E3	1.8	E3	3	AgriShield Max, Saltro	PI 88788	Rps 1-c	P	G	BR	BF
AgriGold	G2081E3	2.0	E3	3	AgriShield Max, Saltro	PI 88788	Rps 1-c	P	G	BR	IB
AgriGold	G2095XF	2.0	XF	2,3	AgriShield Max, Saltro	PI 88788	Rps 1-c	P	G	T	IB
AgriGold	G2220XF	2.2	XF	2,3	AgriShield Max, Saltro	PI 88788	Rps 1-c	P	G	BR	IB
AgriGold	G2361E3	2.3	E3	3	AgriShield Max, Saltro	PI 88788	Rps 1-c	P	G	BR	IB
AgriGold	G2315XF	2.3	XF	2	AgriShield Max, Saltro	PI 88788	Rps 1-c	P	G	T	IB
AgriGold	G2518XF	2.5	XF	2	AgriShield Max, Saltro	PI 88788	Rps 1-c	P	G	BR	IB
AgriGold	G2750XF	2.7	XF	2	AgriShield Max, Saltro	PI 88788	Rps 1-c	W	LTW	BR	BL
Apex	AE0720	0.7	E3	5	CruiserMaxx, Vibrance	PI 88788	--	P	G	T	BF
Apex	AE1300	1.3	E3	4,5	CruiserMaxx, Vibrance	PI 88788	Rps 1-c	P	G	T	IB
Apex	AE1410	1.4	E3	4	CruiserMaxx, Vibrance	PI 88788	Rps 1-k	P	G	BR	IB
Apex	AE1710	1.6	E3	4	CruiserMaxx, Vibrance	PI 88788	Rps 1-k	P	G	BR	IB
Apex	AE1920	1.9	E3	3,4	CruiserMaxx, Vibrance	PI 88788	--	P	G	BR	IB
Apex	AE2220	2.2	E3	3	CruiserMaxx, Vibrance	PI 88788	--	W	G	T	BF
Asgrow	AG09XF0	0.9	XF	5	Acceleron F/I, ILEVO	PI 88788	Rps 3-a	P	T	BR	BR
Asgrow	AG13XF0	1.3	XF	4	Acceleron F/I, ILEVO	PI 88788	--	P	LTW	BR	BL
Asgrow	AG14XF2	1.4	XF	3,4	Acceleron F/I, ILEVO	PI 88788	Rps 1-c	P	LTW	BR	BR
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	Acceleron F/I, ILEVO	PI 88788	--	P	G	T	BF
Asgrow	AG20X9	2.0	RR2X	2	Acceleron F/I, ILEVO	PI 88788	Rps 1-c	P	G	BR	IB
Asgrow	AG20XF1	2.0	XF	2,3	Acceleron F/I, ILEVO	PI 88788	Rps 1-c	P	G	T	G

All characteristic information is provided by the originator.

¹ Herbicide Trait : CN = conventional, GT or RR2Y = glyphosate, RR2X = dicamba/glyphosate, XF = dicamba/glufosinate/glyphosate, E3 = glufosinate/glyphosate/2,4-D, LLGT27 = glufosinate/glyphosate/isoxaflutole

² Source of SCN Resistance; S = Susceptible.

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. 2021 Characteristics of Soybean Varieties (2 of 10)

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
Asgrow	AG21XF0	2.1	XF	2,3	Acceleron F/I, ILEVO	PI 88788	Rps 1-c	P	LTW	BR	BL
Asgrow	AG21XF1	2.1	XF	2,3	Acceleron F/I, ILEVO	PI 88788	Rps 1-c	P	G	T	G
Asgrow	AG24XF1	2.4	XF	2	Acceleron F/I, ILEVO	PI 88788	Rps 1-c	P	G	T	G
Asgrow	AG26XF1	2.6	XF	2	Acceleron F/I, ILEVO	PI 88788	Rps 1-c	P	G	T	G
BioGene	BG9100E3	1.0	E3	5	Arma	PI 88788	--	P	G	BR	G
BioGene	BG9150E3	1.5	E3	4	Arma	PI 88788	Rps 3-a	P	G	T	BF
BioGene	BG9180E3	1.8	E3	3	Arma	PI 88788	Rps 1-c	P	G	BR	BF
Burrus	2497E	2.4	E3	2	PowerShield	PI 88788	Rps 1-k	W	G	T	BF
Burrus	2565E	2.5	E3	2	PowerShield	Peking	Rps 1-k	P	G	T	BF
Cornelius	CB07R77	0.7	RR2Y	5	Profit Guard Plus	PI 88788	Rps 1-c	P	LTW	BR	BL
Cornelius	CB26XF76	2.6	XF	2	Profit Guard Plus	PI 88788	--	P	G	T	BF
Cornelius	CB27XF34	2.7	XF	2	Profit Guard Plus	PI 88788	Rps 1-c	P	G	T	G
Cornelius	CB27X81	2.7	RR2X	2	Profit Guard Plus	PI 88788	Rps 1-c	P	G	BR	IB
Cornelius	CB29XF09	2.9	XF	2	Profit Guard Plus	PI 88788	Rps 1-c	P	LTW	BR	BL
Credenz	CZ 0661GTLL	0.6	LLGT27	4,5	Obvius Plus, Poncho/Votivo, ILEVO	--	Rps 1-k	P	LTW	T	BR
Credenz	CZ 1171GTLL	1.1	LLGT27	3,4	Obvius Plus, Poncho/Votivo, ILEVO	PI 88788	Rps 1-c	P	LTW	BR	BL
Credenz	CZ 1331GTLL	1.3	LLGT27	3,4	Obvius Plus, Poncho/Votivo, ILEVO	PI 88788	Rps 1-K	P	LTW	T	BR
Credenz	CZ 2121GTLL	2.1	LLGT27	2,3	Obvius Plus, Poncho/Votivo, ILEVO	PI 88788	--	P	LTW	T	BL
Credenz	CZ 2550GTLL	2.5	LLGT27	2,3	Obvius Plus, Poncho/Votivo, ILEVO	PI 88788	Rps 1-a	P	LTW	BR	BL
Credenz	CZ 2760GTLL	2.7	LLGT27	2	Obvius Plus, Poncho/Votivo, ILEVO	PI 88788	Rps 1-a	P	LTW	T	BR
Dairyland	DSR-0660E	0.6	E3	5	LumiGEN, ILEVO	PI 88788	--	P	G	T	Y
Dairyland	DSR-0847E	0.8	E3	4,5	LumiGEN, ILEVO	--	Rps 1-c	P	G	T	IB
Dairyland	DSR-0920E	0.9	E3	4,5	LumiGEN, ILEVO	PI 88788	--	P	G	T	IB
Dairyland	DSR-1010E	1.0	E3	4,5	LumiGEN, ILEVO	PI 88788	--	P	G	BR	G
Dairyland	DSR-1290E	1.2	E3	3,4	LumiGEN, ILEVO	PI 88788	--	P	G	BR	IB

All characteristic information is provided by the originator.

¹ Herbicide Trait : CN = conventional, GT or RR2Y = glyphosate, RR2X = dicamba/glyphosate, XF = dicamba/glufosinate/glyphosate, E3 = glufosinate/glyphosate/2,4-D, LLGT27 = glufosinate/glyphosate/isoxaflutole

² Source of SCN Resistance; S = Susceptible.

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. 2021 Characteristics of Soybean Varieties (3 of 10)

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
Dairyland	DSR-1318E	1.3	E3	4	LumiGEN, ILEVO	PI 88788	Rps 1-c	P	G	T	IB
Dairyland	DSR-1450E	1.4	E3	3,4	LumiGEN, ILEVO	PI 88788	--	P	G	BR	IB
Dairyland	DSR-1673E	1.6	E3	3	LumiGEN, ILEVO	PI 88788	Rps 1-k	P	G	T	IB
Dairyland	DSR-1707E	1.7	E3	3,4	LumiGEN, ILEVO	PI 88788	Rps 1-k	P	G	BR	IB
Dairyland	DSR-1820E	1.8	E3	3	LumiGEN, ILEVO	PI 88788	Rps 1-k	P	G	BR	IB
Dairyland	DSR-2030E	2.0	E3	2,3	LumiGEN, ILEVO	PI 88788	Rps 1-c, 3-a	W	G	BR	BF
Dairyland	DSR-2040E	2.0	E3	2,3	LumiGEN, ILEVO	PI 88788	Rps 1-k	P	G	BR	IB
Dairyland	DSR-2222E	2.2	E3	2,3	LumiGEN, ILEVO	PI 88788	Rps 1-c, 3-a	P	G	BR	BF
Dairyland	DSR-2424E	2.4	E3	2	LumiGEN, ILEVO	Peking	Rps 1-k	P	G	T	BF
Dairyland	DSR-2640E	2.6	E3	2	LumiGEN, ILEVO	PI 88788	Rps 1-k	W	G	T	BF
Dairyland	DSR-2999E	2.9	E3	2	LumiGEN, ILEVO	PI 88788	Rps 1-k	P	G	T	IB
DONMARIO	DM 2544E	2.5	E3	2	CruiserMaxx, Vibrance	PI 88788	Rps 1-k	P	G	T	BR
DONMARIO	DM 28E52	2.8	E3	2	CruiserMaxx, Vibrance	PI 88788	Rps 1-k	P	G	BR	IB
Dyna-Gro	S15XF82	1.5	XF	4	Equity VIP, Saltro	PI 88788	Rps 3-a	P	LTW	BR	BR
Dyna-Gro	S17XF02	1.7	XF	3,4	Equity VIP, Saltro	PI 88788	Rps 1-c	P	LTW	BR	BR
Dyna-Gro	S18EN52	1.8	E3	3	Equity VIP, Saltro	PI 88788	Rps 1-c	P	G	BR	IB
Dyna-Gro	S21EN81	2.1	E3	2,3	Equity VIP, Saltro	PI 88788	Rps 1-k	P	G	BR	IB
Dyna-Gro	S21XF61	2.1	XF	2,3	Equity VIP, Saltro	PI 88788	Rps 1-c	P	G	T	G
Dyna-Gro	S21XF72	2.1	XF	2	Equity VIP, Saltro	PI 88788	Rps 3-a	P	G	T	IB
Dyna-Gro	S23ES32	2.3	E3	2,3	Equity VIP, Saltro	PI 88788	Rps 1-k	W	G	T	BF
Dyna-Gro	S25EN02	2.5	E3	2	Equity VIP, Saltro	Peking	Rps 1-k	P	G	T	BF
Dyna-Gro	S25XF71S	2.5	XF	2	Equity VIP, Saltro	PI 88788	Rps 1-c	P	G	T	G
Dyna-Gro	S28EN22	2.8	E3	2	Equity VIP, Saltro	PI 88788	Rps 3-a, 1-k	W	G	T	BF
Dyna-Gro	S28XF92S	2.8	XF	2	Equity VIP, Saltro	PI 88788	Rps 1-c	P	G	T	G
Federal Hybrids	F0920N RXF	0.9	XF	4	Maximum ArmourGuard	PI 88788	--	P	LTW	BR	BR

All characteristic information is provided by the originator.

¹ Herbicide Trait : CN = conventional, GT or RR2Y = glyphosate, RR2X = dicamba/glyphosate, XF = dicamba/glufosinate/glyphosate, E3 = glufosinate/glyphosate/2,4-D, LLGT27 = glufosinate/glyphosate/isoxaflutole

² Source of SCN Resistance; S = Susceptible.

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. 2021 Characteristics of Soybean Varieties (4 of 10)

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
Federal Hybrids	F1120N RXF	1.1	XF	4	Maximum ArmourGuard	PI 88788	--	P	LTW	T	BL
Federal Hybrids	F1310N RXF	1.3	XF	4	Maximum ArmourGuard	PI 88788	Rps 1-c	P	LTW	BR	BL
Federal Hybrids	F1520N RXF	1.5	XF	4	Maximum ArmourGuard	PI 88788	HRps 1-c	P	LTW	T	BL
Federal Hybrids	F1720N RXF	1.7	XF	4	Maximum ArmourGuard	PI 88788	HRps 1-c	P	G	BR	IB
FS HiSOY	HS 19F10	1.9	XF	2,3	Acceleron F/I, Saltro	PI 88788	Rps 3-a	W	TW	BR	BL
FS HiSOY	HS 21E00	2.1	E3	2,3	Acceleron F/I, Saltro	PI 88788	Rps 1-k	P	G	T	IB
FS HiSOY	HS 21F00	2.1	XF	2,3	Acceleron F/I, Saltro	PI 88788	Rps 1-c	P	G	BR	IB
FS HiSOY	HS 23F10	2.3	XF	2,3	Acceleron F/I, Saltro	PI 88788	Rps 1-c	P	G	T	G
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 25E00	2.5	E3	2,3	Acceleron F/I, Saltro	PI 88788	--	P	G	T	IB
Genesis	G0750E	0.7	E3	5	EclipseUS Trio	PI 88788	Rps 1-c, 3-a	P	G	BR	BF
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
Genesis	G1950E	1.9	E3	3	EclipseUS Trio, Saltro	PI 88788	--	P	G	BR	IB
Genesis	G2060E	2.0	E3	3	EclipseUS Trio, Saltro	PI 88788	Rps 1-k	P	G	BR	IB
Genesis	G2150E	2.1	E3	3	EclipseUS Trio, Saltro	PI 88788	Rps 1-k	P	G	T	BF
Genesis	G2260E	2.2	E3	3	EclipseUS Trio, Saltro	PI 88788	--	W	G	T	BF
Genesis	G2550E	2.5	E3	2	EclipseUS Trio, Saltro	PI 88788	Rps 1-k	W	G	T	BF
Genesis	G2960E	2.9	E3	2	EclipseUS Trio, Saltro	PI 88788	Rps 1-k	P	G	BR	IB
Golden Harvest	GH0822XF Brand	0.8	XF	5	CruiserMaxx, Saltro, Vibrance	PI 88788	Rps 1-c	P	LTW	T	BR
Golden Harvest	GH1032XF Brand	1.0	XF	5	CruiserMaxx, Saltro, Vibrance	PI 88788	Rps 1-c	P	LTW	T	IY
Golden Harvest	GH1414X Brand	1.4	RR2X	3,4	CruiserMaxx, Saltro, Vibrance	PI 88788	Rps 1-c	P	LTW	BR	BR
Golden Harvest	GH1442XF Brand	1.4	XF	3,4	CruiserMaxx, Saltro, Vibrance	PI 88788	Rps 1-c	P	LTW	BR	BR
Golden Harvest	GH1762XF Brand	1.7	XF	3	CruiserMaxx, Saltro, Vibrance	PI 88788	--	--	--	--	--
Golden Harvest	GH1802E3 Brand	1.8	E3	3,4	CruiserMaxx, Saltro, Vibrance	PI 88788	Rps 1-c	P	G	BR	IB

All characteristic information is provided by the originator.

¹ Herbicide Trait : CN = conventional, GT or RR2Y = glyphosate, RR2X = dicamba/glyphosate, XF = dicamba/glufosinate/glyphosate, E3 = glufosinate/glyphosate/2,4-D, LLGT27 = glufosinate/glyphosate/isoxaflutole

² Source of SCN Resistance; S = Susceptible.

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. 2021 Characteristics of Soybean Varieties (5 of 10)

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
Golden Harvest	GH2102XF Brand	2.1	XF	2,3	CruiserMaxx, Saltro, Vibrance	PI 88788	Rps 1-c	W	LTW	BR	BL
Golden Harvest	GH2292E3 Brand	2.2	E3	2,3	CruiserMaxx, Saltro, Vibrance	PI 88788	Rps 1-c	P	G	BR	IB
Golden Harvest	GH2329X Brand	2.3	RR2X	3	CruiserMaxx, Saltro, Vibrance	PI 89772	Rps 1-c	W	LTW	BR	BL
Golden Harvest	GH2442E3 Brand	2.4	E3	3	CruiserMaxx, Saltro, Vibrance	PI 88788	Rps 1-c, 3-a	W	G	T	BF
Impact	12E157N	1.2	E3	5	YP Pro, Preside CL, Soyfx	PI 88788	--	P	G	BR	IB
Impact	13E245N	1.3	E3	4	YP Pro, Preside CL, Soyfx	PI 88788	Rps 1-c	P	G	T	IB
Impact	16LGT035N	1.6	LLGT27	4	YP Pro, Preside CL, Soyfx	PI 88788	Rps 1-k	P	LTW	T	BR
Impact	18E245N	1.8	E3	4	YP Pro, Preside CL, Soyfx	PI 88788	Rps 3-a	P	G	T	BF
Impact	20E245N	2.0	E3	3	YP Pro, Preside CL, Soyfx	PI 88788	--	P	G	BR	IB
Impact	23E234N	2.3	E3	2	YP Pro, Preside CL, Soyfx	PI 88788	--	P	G	T	BF
Impact	28E256N	2.8	E3	2	YP Pro, Preside CL, Soyfx	PI 88788	Rps 1-k	P	G	BR	IB
Jung	1063XF	0.6	XF	5	Acceleron F/I, ILEVO	PI 88788	Rps 1-c	P	TW	BR	BL
Jung	1072R2X	0.7	RR2X	5	Acceleron F/I, ILEVO	PI 88788	Rps 1-c	P	LTW	BR	BL
Jung	1104XF	1.0	XF	5	Acceleron F/I, ILEVO	PI 88788	--	P	LTW	T	BL
Jung	1135XF	1.3	XF	4	Acceleron F/I, ILEVO	PI 88788	Rps 1-c	P	LTW	BR	BL
Jung	1161R2X	1.6	RR2X	4	Acceleron F/I, ILEVO	PI 88788	Seg. Rps 1-c	P	G	T	IB
Jung	1182R2X	1.8	RR2X	4	Acceleron F/I, ILEVO	PI 88788	Rps 1-c	P	LTW	BR	BL
Jung	1203R2X	2.0	RR2X	3	Acceleron F/I, ILEVO	PI 88788	Rps 1-a, 3-a	P	G	BR	IB
Jung	1227XF	2.2	XF	3	Acceleron F/I, ILEVO	PI 88788	Rps 1-c	P	G	BR	G
Jung	1243R2X	2.4	RR2X	2,3	Acceleron F/I, ILEVO	PI 88788	Rps 1-c	P	G	BR	IB
Jung	1244XF	2.4	XF	2	Acceleron F/I, ILEVO	PI 88788	Rps 1-c	P	G	T	G
Jung	1254XF	2.5	XF	2	Acceleron F/I, ILEVO	PI 88788	Rps 1-c	P	G	T	G
Legacy Seeds	LS094-20	0.9	XF	5	L-Coat Total	PI 88788	Rps 3-a	P	T	T	BR
Legacy Seeds	LS-1039	1.0	RR2Y	5	L-Coat Total	Peking	Rps 3-a, 1-k	P	G	BR	BF
Legacy Seeds	LS104-21	1.0	XF	5	L-Coat Total	PI 88788	Rps 3-a	P	LTW	T	BR

All characteristic information is provided by the originator.

¹ Herbicide Trait : CN = conventional, GT or RR2Y = glyphosate, RR2X = dicamba/glyphosate, XF = dicamba/glufosinate/glyphosate, E3 = glufosinate/glyphosate/2,4-D, LLGT27 = glufosinate/glyphosate/isoxaflutole

² Source of SCN Resistance; S = Susceptible.

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. 2021 Characteristics of Soybean Varieties (6 of 10)

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
Legacy Seeds	LS124-21	1.2	XF	4,5	L-Coat Total	PI 88788	Rps 3-a	P	LTW	BR	BL
Legacy Seeds	LS134-20	1.3	XF	4	L-Coat Total	PI 88788	Rps 1-c	P	LTW	BR	BL
Legacy Seeds	LS151-21C	1.5	CN	7	Defender	PI 88788	Rps 1-k	P	LTW	T	BR
Legacy Seeds	LS174-20	1.7	XF	3,4	L-Coat Total	PI 88788	Rps 1-c	P	LTW	T	BL
Legacy Seeds	LS187-21C	1.8	CN	6,7	Defender	PI 88788	Rps 1-k	M	G	T	CL
Legacy Seeds	LS184-21	1.8	XF	3,4	L-Coat Total	PI 88788	--	P	G	T	BF
Legacy Seeds	LS201-21C	2.0	CN	6,7	Defender	PI 88788	Rps 1-k	P	LTW	BR	BL
Legacy Seeds	LS204-21	2.0	XF	2,3	L-Coat Total	PI 88788	Rps 3-a	W	T	BR	BL
Legacy Seeds	LS210-21C	2.1	CN	6	Defender	Peking	Rps 1-k	P	G	T	BF
Legacy Seeds	LS227-21C	2.2	CN	6	Defender	PI 88788	Rps 1-a	M	LTW	T	BR
Legacy Seeds	LS224-20	2.2	XF	2,3	L-Coat Total	PI 88788	Rps 1-c	P	G	T	G
Legacy Seeds	LS231-21C	2.3	CN	6	Defender	PI 88788	Rps 1-a	P	LTW	BR	BL
Legacy Seeds	LS244-21	2.4	XF	2	L-Coat Total	PI 88788	Rps 1-c	P	G	BR	IB
Legacy Seeds	LS155-21C	2.5	CN	6	Defender	--	Rps 1-k	P	G	BR	CL
Legacy Seeds	LS254-21	2.5	XF	2	L-Coat Total	PI 88788	Rps 1-c	P	G	T	G
Legacy Seeds	LS260-21C	2.6	CN	6	Defender	PI 88788	Rps 1-k	P	G	T	BF
Legend Seeds	LS 0380 HP	0.3	CN	7	YP Pro, Preside CL, Soyfx	S	--	P	G	T	Y
Legend Seeds	LS 0702 HP	0.7	CN	7	YP Pro, Preside CL, Soyfx	S	Rps 1-k	P	G	BR	Y
Legend Seeds	LS 10C153N	1.0	CN	7	YP Pro, Preside CL, Soyfx	PI 88788	--	W	G	BR	Y
LG Seeds	LGS0701XF	0.7	XF	5	AgriShield Max, Saltro	PI 88788	Rps 3-a	P	LTW	BR	BL
LG Seeds	LGS1203E3	1.2	E3	5	AgriShield Max, Saltro	PI 88788	Rps 1-c	P	G	T	IB
LG Seeds	LGS1848XF	1.8	XF	4	AgriShield Max, Saltro	PI 88788	Rps 1-c	P	LTW	BR	BR
LG Seeds	LGS2025XF	2.0	XF	3	AgriShield Max, Saltro	PI 88788	Rps 1-c	P	G	T	G
LG Seeds	LGS2215XF	2.2	XF	3	AgriShield Max, Saltro	PI 88788	Rps 1-c	P	G	BR	IB
LG Seeds	LGS2491XF	2.4	XF	2	AgriShield Max, Saltro	PI 88788	Rps 1-c	P	G	BR	IB

All characteristic information is provided by the originator.

¹ Herbicide Trait : CN = conventional, GT or RR2Y = glyphosate, RR2X = dicamba/glyphosate, XF = dicamba/glufosinate/glyphosate, E3 = glufosinate/glyphosate/2,4-D, LLGT27 = glufosinate/glyphosate/isoxaflutole

² Source of SCN Resistance; S = Susceptible.

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. 2021 Characteristics of Soybean Varieties (7 of 10)

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	L1230E	1.2	E3	4,5	L-Coat Total	PI 88788	Rps 1-c	P	G	BR	IB
Loyal Brand	L1440E	1.4	E3	4,5	L-Coat Total	PI 88788	--	P	LTW	T	BL
Loyal Brand	L1540E	1.5	E3	3,4	L-Coat Total	PI 88788	Rps 3-a	P	G	T	BF
Loyal Brand	L1740E	1.7	E3	3,4	L-Coat Total	PI 88788	Rps 3-a	P	G	T	BF
Loyal Brand	L1940E	1.9	E3	3,4	L-Coat Total	PI 88788	--	P	G	BR	IB
Loyal Brand	L2130E	2.1	E3	2,3	L-Coat Total	PI 88788	Rps 1-k	P	G	BR	IB
Loyal Brand	L2240E	2.2	E3	2,3	L-Coat Total	PI 88788	--	W	G	T	BF
Loyal Brand	L2530E	2.5	E3	2	L-Coat Total	PI 88788	--	P	G	BR	IB
Mustang	22X228	2.2	RR2X	2	YP Pro, Preside CL, Soyfx	PI 88788	--	W	G	G	--
NK	NK02-M4XF Brand	0.2	XF	4,5	CruiserMaxx, Saltro, Vibrance	PI 88788	Rps 1-c	P	LTW	T	BL
NK	NK04-G8E3 Brand	0.4	E3	4,5	CruiserMaxx, Saltro, Vibrance	--	Rps 1-c, 3-a	P	G	BR	Y
NK	NK05-W3XF Brand	0.5	XF	4,5	CruiserMaxx, Saltro, Vibrance	PI 88788	Rps 1-c	P	LTW	T	IY
NK	NK08-V9E3 Brand	0.8	E3	3,4,5	CruiserMaxx, Saltro, Vibrance	PI 88788	--	P	G	T	BF
NK	NK08-B7XF Brand	0.8	XF	3,4,5	CruiserMaxx, Saltro, Vibrance	PI 88788	Rps 1-c	P	LTW	T	BR
NK	NK10-W8XF Brand	1.0	XF	3,4,5	CruiserMaxx, Saltro, Vibrance	PI 88788	Rps 1-c	P	LTW	T	IY
NK	NK14-W6E3 Brand	1.4	E3	2,3,4	CruiserMaxx, Saltro, Vibrance	Peking	Rps 1-c, 3-a	P	G	T	BF
NK	NK14-C7XF Brand	1.4	XF	2,3,4	CruiserMaxx, Saltro, Vibrance	PI 88788	Rps 1-c	P	LTW	BR	BR
NK	S17-E3 Brand	1.7	E3	2,3	CruiserMaxx, Saltro, Vibrance	--	--	--	--	--	--
NK	NK17-M2XF Brand	1.7	XF	2,3,4	CruiserMaxx, Saltro, Vibrance	PI 88788	Rps 1-c	P	LTW	BR	BR
NK	NK18-J7E3 Brand	1.8	E3	2,3,4	CruiserMaxx, Saltro, Vibrance	PI 88788	Rps 1-c	P	G	BR	IB
NK	NK19-C8XF Brand	1.9	XF	2,3	CruiserMaxx, Saltro, Vibrance	PI 88788	Rps 1-c, 3-a	P	LTW	BR	G
NK	NK21-H4XF Brand	2.1	XF	2,3	CruiserMaxx, Saltro, Vibrance	PI 88788	Rps 1-c	W	LTW	BR	BL
NK	NK22-C4E3 Brand	2.2	E3	2,3	CruiserMaxx, Saltro, Vibrance	PI 88788	Rps 1-c	P	G	BR	IB
NK	NK24-G7E3 Brand	2.4	E3	2,3	CruiserMaxx, Saltro, Vibrance	PI 88788	Rps 1-c, 3-a	W	G	T	BF
NK	NK25-C9XF Brand	2.5	XF	2	CruiserMaxx, Saltro, Vibrance	PI 88788	Rps 1-c	W	LTW	BR	BL

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¹ Herbicide Trait : CN = conventional, GT or RR2Y = glyphosate, RR2X = dicamba/glyphosate, XF = dicamba/glufosinate/glyphosate, E3 = glufosinate/glyphosate/2,4-D, LLGT27 = glufosinate/glyphosate/isoxaflutole

² Source of SCN Resistance; S = Susceptible.

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. 2021 Characteristics of Soybean Varieties (8 of 10)

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
NK	NK27-A7XF Brand	2.7	XF	2	CruiserMaxx, Saltro, Vibrance	PI 88788	Rps 1-c	P	LTW	BR	BL
NK	NK28-T3XF Brand	2.8	XF	2	CruiserMaxx, Saltro, Vibrance	PI 88788	--	P	LTW	T	BL
NK	NK29-A5E3 Brand	2.9	E3	2	CruiserMaxx, Saltro, Vibrance	PI 88788	Rps 1-c, 3-a	W	G	T	BF
O'Brien	O'SOY1620GT27LL	1.6	LLGT27	3,4	CruiserMaxx, Vibrance	--	--	P	LTW	T	BR
O'Brien	O'SOY2120GT27LL	2.1	LLGT27	2,3	CruiserMaxx, Vibrance	--	--	P	LTW	BR	BR
O'Brien	O'SOY2421GT27LL	2.4	LLGT27	2	CruiserMaxx, Vibrance	PI 88788	Rps 1-k	P	LTW	BR	BL
P3 Genetics	1924E	2.4	E3	2	Profit Guard Plus	PI 88788	Rps 1-k	P	G	T	BF
P3 Genetics	2126E	2.6	E3	2	Profit Guard Plus	PI 88788	Rps 1-k	P	LTW	BR	BL
P3 Genetics	1928E	2.8	E3	2	Profit Guard Plus	PI 88788	Rps 1-k	W	G	T	BF
P3 Genetics	2229E	2.9	E3	2	Profit Guard Plus	PI 88788	Rps 1-k	W	LTW	T	BR
ProHarvest	0985CR2Y	0.9	RR2Y	5	CruiserMaxx, Vibrance	Peking	Rps 3-a, 1-k	P	G	BR	BF
ProHarvest	EXF21112	1.1	E3	4,5	CruiserMaxx, Vibrance	--	--	--	--	--	--
ProHarvest	1638X	1.6	RR2X	4	CruiserMaxx, Vibrance	PI 88788	Rps 1-c, 1-k	P	G	BR	IB
ProHarvest	17F27	1.7	XF	4	CruiserMaxx, Vibrance	PI 88788	--	P	LTW	BR	BR
ProHarvest	EXF21201	2.0	XF	3	CruiserMaxx, Vibrance	PI 88788	Rps 3-a	W	TW	BR	BL
Public	MN1410	1.4	CN	6,7	Arma	--	--	W	G	BR	BF
Renk	RS100NX	1.0	RR2X	5	EclipseUS Trio	PI 88788	--	P	LTW	BR	BR
Renk	RS142NXF	1.4	XF	4	EclipseUS Trio	PI 88788	Rps 1-c, 3-a	W	LTW	T	BL
Renk	RS150NX	1.5	RR2X	4	EclipseUS Trio	PI 88788	Rps 1-c	P	G	BR	IB
Renk	RS219NX	2.1	RR2X	3	EclipseUS Trio, Saltro	PI 88788	Rps 1-a, 3-a	P	G	T	G
Renk	RS212NXF	2.1	XF	3	EclipseUS Trio, Saltro	PI 88788	Rps 3-a	P	G	BR	IB
Renk	RS248NX	2.4	RR2X	3	EclipseUS Trio, Saltro	PI 88788	--	P	LTW	T	BL
Renk	RS282NXF	2.8	XF	2	EclipseUS Trio, Saltro	PI 88788	Rps 1-c	P	G	G	T
SB&B	SB700	0.7	CN	6,7	CruiserMaxx	--	Rps 1-c	P	T	BR	IY
SB&B	SB0718	0.8	CN	6,7	CruiserMaxx	PI 88788	--	P	G	T	Y

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² Source of SCN Resistance; S = Susceptible.

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

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TABLE 10. CONTINUED. 2021 Characteristics of Soybean Varieties (9 of 10)

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
SB&B	SB1270	1.2	CN	6,7	CruiserMaxx	--	--	P	G	T	Y
SB&B	SB712	1.2	CN	6,7	CruiserMaxx	PI 88788	Rps 1-c, 3-a	P	G	T	Y
SB&B	SB19	1.5	CN	6,7	CruiserMaxx	--	--	P	G	T	Y
Sevita	Skyline	1.1	CN	7	Fortenza, VibranceMaxx	PI 88788	--	P	G	--	Y
Sevita	Candor	1.9	CN	6,7	Fortenza, VibranceMaxx	--	--	P	G	--	Y
Stine	09EA02	0.9	E3	5	EclipseUS Quad IM, N-Force, N-Hibit, Ceramax	PI 88788	--	P	G	--	IB
Stine	11EC02	1.1	E3	4,5	EclipseUS Quad IM, N-Force, N-Hibit, Ceramax	PI 88788	--	P	G	--	IB
Stine	12EB32	1.2	E3	4	EclipseUS Quad IM, N-Force, N-Hibit, Ceramax	PI 88788	Rps 1-c	P	G	--	IB
Stine	16EC32	1.6	E3	3,4	EclipseUS Quad IM, N-Force, N-Hibit, Ceramax	PI 88788	Rps 1-k	P	G	--	IB
Stine	19EC12	1.9	E3	2,3	EclipseUS Quad IM, N-Force, N-Hibit, Ceramax	PI 88788	Rps 1-k	P	G	--	IB
Stine	19EC32	1.9	E3	2,3	EclipseUS Quad IM, N-Force, N-Hibit, Ceramax	PI 88788	Rps 1-k	P	G	--	IB
Stine	24EA12	2.4	E3	2,3	EclipseUS Quad IM, N-Force, N-Hibit, Ceramax	PI 88788	--	P	G	--	IB
Stine	24EE32	2.4	E3	2,3	EclipseUS Quad IM, N-Force, N-Hibit, Ceramax	PI 88788	Rps 1-k	W	G	--	BF
Stine	27EA23	2.7	E3	2	EclipseUS Quad IM, N-Force, N-Hibit, Ceramax	PI 88788	Rps 1-k	W	G	--	BF
Stine	28EC32	2.8	E3	2	EclipseUS Quad IM, N-Force, N-Hibit, Ceramax	PI 88788	Rps 1-k	P	G	--	IB
Stine	29EB22	2.9	E3	2	EclipseUS Quad IM, N-Force, N-Hibit, Ceramax	PI 88788	--	W	LTW	--	BR
Tracy	1252E	1.2	E3	3	Intego Suite, N-Force	PI 88788	--	P	G	BR	IB
Tracy	1641GTLL	1.6	LLGT27	3	Intego Suite, N-Force	PI 88788	Rps 1-k	P	LTW	T	BR
Tracy	2142GTLL	2.1	LLGT27	3	Intego Suite, N-Force	PI 88788	--	P	LTW	T	BL
Tracy	2452E	2.4	E3	3	Intego Suite, N-Force	PI 88788	--	P	G	BR	IB
Tracy	2442GTLL	2.4	LLGT27	2	Intego Suite, N-Force	PI 88788	Rps 1-k	P	LTW	BR	BL
Tracy	2551E	2.5	E3	2	Intego Suite, N-Force	PI 88788	--	P	G	BR	IB
Tracy	2841GTLL	2.8	LLGT27	2	Intego Suite, N-Force	PI 88788	--	P	LTW	T	BL
Viking	0.0821N	0.8	CN	7	None	PI 88788	--	P	LTW	T	BR
Viking	1218N	1.2	CN	7	None	PI 88788	Rps 3-a	P	LTW	BR	BL

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¹ Herbicide Trait : CN = conventional, GT or RR2Y = glyphosate, RR2X = dicamba/glyphosate, XF = dicamba/glufosinate/glyphosate, E3 = glufosinate/glyphosate/2,4-D, LLGT27 = glufosinate/glyphosate/isoxaflutole

² Source of SCN Resistance; S = Susceptible.

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. 2021 Characteristics of Soybean Varieties (10 of 10)

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
Viking	0.1202N	1.2	CN	7	None	PI 88788	Rps 1-k	W	TW	BR	BR
Viking	0.1518N	1.5	CN	7	Vibrance Trio	PI 88788	--	P	LTW	BR	BR
Viking	0.1718N	1.7	CN	7	None	--	--	W	TW	BR	BL
Viking	0.E1993N	1.9	CN	6	None	PI 88788	--	P	G	BR	IB
Viking	0.2155N	2.1	CN	6	CruiserMaxx	PI 88788	Rps 1-a	M	LTW	T	BR
Viking	2340KN	2.3	CN	6	CruiserMaxx	Peking	Rps 1-k	P	G	T	BF
Viking	0.2244AT	2.2	CN	6	Apron, Vibrance	--	--	P	TW	T	BL/BR
Viking	0.2418N	2.4	CN	6	CruiserMaxx	PI 88788	Rps 1-c	P	LTW	BR	BL
Viking	0.2702	2.7	CN	6	None	--	--	W	LTW	BR	BR
Xitavo	XO 0602E	0.6	E3	4,5	Obvius Plus, Poncho/Votivo, ILEVO	PI 88788	--	P	G	T	BF
Xitavo	XO 0731E	0.7	E3	4,5	Obvius Plus, Poncho/Votivo, ILEVO	PI 88788	Rps 1-c, 3-a	P	G	BR	IB
Xitavo	XO 1212E	1.2	E3	3,4	Obvius Plus, Poncho/Votivo, ILEVO	PI 88788	--	P	G	T	IB
Xitavo	XO 1372E	1.3	E3	3,4	Obvius Plus, Poncho/Votivo, ILEVO	PI 88788	--	P	G	BR	IB
Xitavo	XO 1632E	1.6	E3	3,4	Obvius Plus, Poncho/Votivo, ILEVO	PI 88788	Rps 3-a	P	G	T	BF
Xitavo	XO 1761E	1.7	E3	3	Obvius Plus, Poncho/Votivo, ILEVO	PI 88788	Rps 1-k	P	G	BR	IB
Xitavo	XO 1822E	1.8	E3	3	Obvius Plus, Poncho/Votivo, ILEVO	PI 88788	Rps 3-a	P	G	T	BF
Xitavo	XO 2181E	2.1	E3	2,3	Obvius Plus, Poncho/Votivo, ILEVO	PI 88788	Rps 1-k	P	G	BR	IB
Xitavo	XO 2282E	2.2	E3	2,3	Obvius Plus, Poncho/Votivo, ILEVO	PI 88788	--	W	G	T	BF
Xitavo	XO 2501E	2.5	E3	2	Obvius Plus, Poncho/Votivo, ILEVO	PI 88788	--	P	G	BR	IB
Xitavo	XO 2832E	2.8	E3	2	Obvius Plus, Poncho/Votivo, ILEVO	PI 88788	Rps 1-k	P	G	BR	IB

All characteristic information is provided by the originator.

¹ Herbicide Trait : CN = conventional, GT or RR2Y = glyphosate, RR2X = dicamba/glyphosate, XF = dicamba/glufosinate/glyphosate, E3 = glufosinate/glyphosate/2,4-D, LLGT27 = glufosinate/glyphosate/isoxaflutole

² Source of SCN Resistance; S = Susceptible.

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.

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Wisconsin Soybean Performance Trials 2021 (A3654)

11/2021



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