



Extension
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WISCONSIN Soybean Variety Performance Trials

2020

Department of Agronomy
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2020 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 East Troy site moved to Janesville and the Chippewa Falls site moved to Menomonie for the 2020 season.

Growing conditions

Wisconsin soybean growers experienced above average growing conditions across much of the state in 2020. Below normal precipitation in May coupled

with average temperatures expedited soybean planting. This rapid planting window was followed by normal to above normal precipitation patterns across most of the state through September. Normal to above average environmental growing conditions for most of 2020 led to a projected statewide average soybean yield of 55.0 bu/A, up 8.0 bu/A from 2019. Production is expected to be at 109 million bushels, which is above the record crop of 2016. Source: October 9, 2020 NASS report, www.nass.usda.gov

Statewide crop conditions were rated at about 82% good to excellent for most of the season. As of October 26th, 85% of the WI soybean crop had been harvested, which is more than 4 weeks ahead of last year and 13 days ahead of average. Marshfield, and to a lesser extent Janesville, sites had *Phytophthora* root rot incidence. Sudden death syndrome was rated at the Seymour site (Table 4) and some white mold could be found at the Fond du Lac site.

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 on a 13% moisture basis. 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.

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.

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 2020. 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 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 a major disease of soybeans in Wisconsin. In 2020, BSR was nearly non-existent 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 prevalent in 2020, 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 2020; where-as 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 2021. 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 2020, 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 very limited in Wisconsin in 2020.

For more information about soybean pests and diseases, visit:
http://fyi.uwex.edu/fieldcroppathology/soybean_pests_diseases/

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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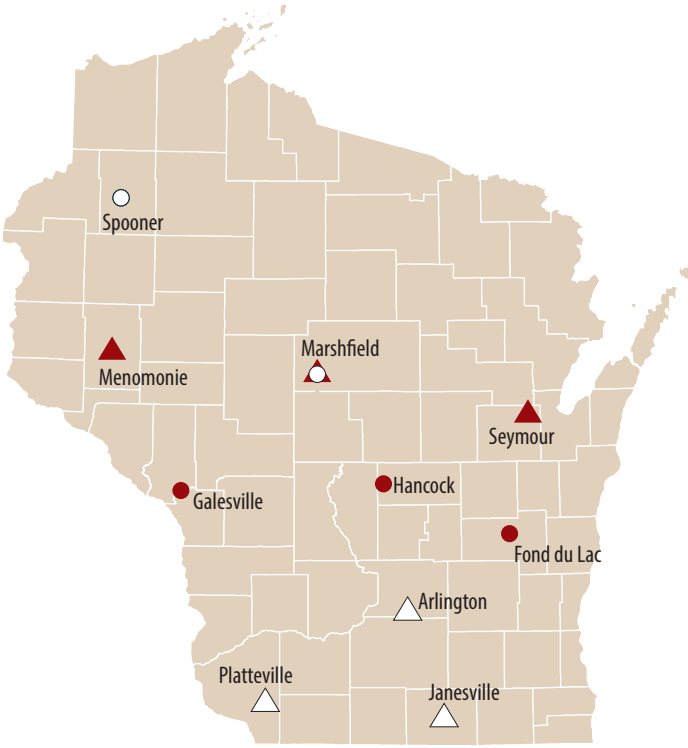
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2020 Soybean Variety Trial Sites

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

TABLE 1. General Information on the 2020 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	2020	2019	2019-20
Arlington: Glyphosate Tolerant	Mike Bertram	15	Silt Loam	6.9	3.6	53	190	Authority First, Medal II	glyphosate, Warrant	1-May	14-Oct	85	78	82
Arlington: Glyphosate Tolerant (Early MG)	Mike Bertram	15	Silt Loam	6.9	3.6	53	190	Authority First, Medal II	glyphosate, Warrant	1-May	5-Oct	83	--	83
Arlington: Conventional Herbicide	Mike Bertram	15	Silt Loam	6.9	3.6	53	190	Authority First, Medal II	Pursuit, Select Max	1-May	14-Oct	77	71	74
Fond du Lac: Glyphosate Tolerant	Ed Montsma	15	Silt Loam	7.3	3.2	62	170	Authority First, Dual II Magnum	glyphosate, Warrant	1-May	9-Oct	66	49	58
Galesville: Glyphosate Tolerant	Ken Congdon	15	Silt Loam	6.1	2.8	22	164	Authority First, Dual II Magnum	glyphosate, Select Max, Warrant	30-Apr	6-Oct	82	70	76
Hancock: Glyphosate Tolerant	Paul Sytsma	15	Sand	6.0	0.6	79	78	Dual II Magnum	glyphosate (2), Select Max, Warrant	28-Apr	7-Oct	85	64	75
Janesville: Glyphosate Tolerant	Nick Baker	15	Silt Loam	6.4	2.8	58	152	Authority First, Dual II Magnum	glyphosate (2), Warrant	6-May	9-Oct	78	--	78
Marshfield: Glyphosate Tolerant (North Central)	Jason Cavadini	15	Silt Loam	7.2	3.4	43	311	First Rate, Parallel	glyphosate, Select Max, Warrant	5-May	15-Oct	69	55	62
Marshfield: Glyphosate Tolerant (North)	Jason Cavadini	15	Silt Loam	7.2	3.4	43	311	First Rate, Parallel	glyphosate, Select Max, Warrant	5-May	15-Oct	63	43	53
Menomonie: Glyphosate Tolerant	Tony Mellen-thin, Jerry Clark	15	Sandy Loam	5.9	2.1	28	84	Enlite, glyphosate	glyphosate, Warrant	4-May	7-Oct	72	--	72
Menomonie: Conventional Herbicide	Tony Mellen-thin, Jerry Clark	15	Sandy Loam	5.9	2.1	28	84	Enlite, glyphosate	Raptor, Warrant	4-May	7-Oct	67	--	67
Platteville: Glyphosate Tolerant	Schweigert Family Farms	15	Silt Loam	6.7	3.1	24	112	Cloak, Gramoxone, Zidua Pro	glyphosate, Warrant	27-Apr	8-Oct	86	82	84
Platteville: Conventional Herbicide	Schweigert Family Farms	15	Silt Loam	6.7	3.1	24	112	Cloak, Gramoxone, Zidua Pro	Pursuit	27-Apr	8-Oct	80	72	76
Seymour: Glyphosate Tolerant	Mike Maass, Kevin Jarek	15	Silt Loam	7.2	2.3	35	131	Authority First, Dual II Magnum	glyphosate, Warrant	4-May	15-Oct	56	69	63
Spooner: Glyphosate Tolerant (Dry Land)	Phil Holman	15	Silt Loam	6.5	2.0	36	130	--	glyphosate (2), Dual II Magnum, Raptor, Select Max	13-May	6-Oct	60	46	53
Spooner: Glyphosate Tolerant (Irrigated)	Phil Holman	15	Sandy Loam	6.5	1.7	27	123	Dual II Magnum, Pursuit	clethodim, glyphosate	12-May	6-Oct	53	62	58

TABLE 2. 2020 Southern Region Glyphosate Tolerant Soybean Trial (1 of 4)

Brand (Entrant)	Entry	Maturity Group	Maturity Date ¹	2020 3-Test Average		2020 Yields			2020 Composition ¹		2019 3-Test Average		2019 Composition ¹	
				Yield (bu/A)	Lodging (1-5)	Arlington (bu/A)	Janesville (bu/A)	Platteville (bu/A)	Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
AgriGold	G1990RX	1.9	25-Sep	*89	1.0	*88	*92	86	36.3	18.8	*77	1.0	36.3	17.8
AgriGold	G2009RX	2.0	25-Sep	72	1.2	80	65	71	34.2	20.0	71	1.0	35.1	18.5
AgriGold	G2405RX	2.4	27-Sep	*84	1.5	86	76	*91	34.7	19.5	*76	1.0	36.0	18.7
AgriGold	G2505RX	2.5	25-Sep	81	1.1	*89	72	82	35.1	18.3	*76	1.0	35.4	17.8
AgriGold	G2624RX	2.6	3-Oct	82	1.2	83	79	84	34.1	18.3	--	--	--	--
AgriGold	G2900RX	2.9	4-Oct	83	1.2	84	77	87	35.0	18.0	74	1.0	35.2	18.2
Asgrow	AG26X0	2.6	2-Oct	*86	1.0	*90	82	86	34.5	18.5	69	1.0	36.1	17.4
Asgrow	AG26X8	2.6	4-Oct	79	1.0	*87	72	79	34.7	18.8	73	1.0	35.0	18.9
Asgrow	AG27X0	2.7	4-Oct	*84	1.0	82	84	86	34.1	18.4	*77	1.0	34.5	18.0
Burrus	2239E	2.2	22-Sep	*85	1.5	85	81	*90	32.1	20.6	--	--	--	--
Cornelius	CB24X64	2.4	27-Sep	82	1.3	*87	79	80	34.7	19.6	*76	1.0	36.4	18.5
Cornelius	CB26X78	2.6	2-Oct	78	1.6	83	67	85	33.8	19.4	*79	1.0	35.1	18.4
Cornelius	CB29X33	2.9	4-Oct	*88	1.3	85	*86	*95	36.2	18.0	--	--	--	--
Credenz	CZ 1859GTLL	1.8	17-Sep	79	1.0	85	76	77	34.0	20.4	68	1.0	35.2	18.9
Credenz	CZ 2360GTLL	2.3	25-Sep	*87	1.1	*90	83	87	34.1	20.1	75	1.0	34.7	19.0
Credenz	CZ 2550GTLL	2.5	3-Oct	83	1.5	85	74	88	34.5	19.1	*80	1.0	34.9	18.8
Credenz	CZ 2760GTLL	2.7	4-Oct	*88	1.3	*89	*88	87	34.5	19.5	--	--	--	--
Credenz	CZ 2830GTLL	2.8	4-Oct	*85	1.1	*92	62	*97	34.6	18.5	--	--	--	--
Dairyland	E20-101E	2.0	25-Sep	*85	1.8	*88	85	82	34.7	19.3	--	--	--	--
Dairyland	DSR-2112E	2.1	28-Sep	83	1.0	*87	72	*90	32.9	20.3	--	--	--	--
Dairyland	DSR-2259E	2.2	2-Oct	83	1.2	82	83	84	34.8	18.9	--	--	--	--
Dairyland	DSR-2424E	2.4	28-Sep	*87	1.0	85	82	*95	32.1	20.7	--	--	--	--
Dairyland	E24-201E	2.4	29-Sep	82	1.0	*90	76	81	33.6	19.4	--	--	--	--
Dairyland	DSR-2640E	2.6	4-Oct	*87	1.3	*87	*86	88	33.9	19.7	--	--	--	--

TABLE 2. CONTINUED. 2020 Southern Region Glyphosate Tolerant Soybean Trial (2 of 4)

Brand (Entrant)	Entry	Maturity Group	Maturity Date ¹	2020 3-Test Average		2020 Yields			2020 Composition ¹		2019 3-Test Average		2019 Composition ¹	
				Yield (bu/A)	Lodging (1-5)	Arlington (bu/A)	Janesville (bu/A)	Platteville (bu/A)	Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
Dairyland	DSR-2999E	2.9	4-Oct	*86	1.4	84	79	*96	33.1	19.8	--	--	--	--
DONMARIO (Burrus)	DM 2544E	2.5	27-Sep	*85	1.0	*88	*87	81	32.6	20.3	--	--	--	--
DONMARIO (Burrus)	DM 2868E	2.8	4-Oct	*88	1.1	*90	79	*94	33.6	19.7	--	--	--	--
DONMARIO (GDM)	DM 2868E	2.8	4-Oct	*89	1.2	86	85	*96	33.6	20.0	*81	1.0	34.1	19.7
DONMARIO (GDM)	DM 28J9X	2.8	4-Oct	78	1.0	78	71	87	34.5	18.0	74	1.0	35.0	18.0
Dyna-Gro	S21EN81	2.1	25-Sep	*88	1.5	*94	80	*89	32.8	20.3	--	--	--	--
Dyna-Gro	S21XT49	2.1	22-Sep	*90	1.0	*91	*95	84	36.2	19.0	72	1.0	36.2	17.9
Dyna-Gro	S24EN50	2.4	27-Sep	76	1.0	80	69	79	33.1	19.3	--	--	--	--
Dyna-Gro	S27EN89	2.7	4-Oct	*85	1.3	*88	76	*90	33.9	19.7	*78	1.0	34.1	19.5
Dyna-Gro	S28XT58	2.8	4-Oct	*84	1.2	83	82	88	34.7	18.0	*78	1.0	35.5	17.8
FS HiSOY	HS 19X90	1.9	21-Sep	76	1.3	84	63	80	34.1	20.0	73	1.0	34.8	18.6
FS HiSOY	HS 21X90	2.1	25-Sep	80	1.0	*88	71	81	34.0	18.6	68	1.0	35.0	18.1
FS HiSOY	HS 22X00	2.2	27-Sep	*89	1.7	*91	80	*95	33.8	19.8	--	--	--	--
FS HiSOY	HS 23E00	2.3	28-Sep	*86	1.2	85	*87	84	34.1	19.5	--	--	--	--
FS HiSOY	HS 24X80	2.4	26-Sep	79	1.2	85	69	82	34.7	18.4	75	1.0	36.2	17.4
FS HiSOY	HS 25E00	2.5	4-Oct	*89	1.5	82	*92	*94	32.7	20.5	--	--	--	--
FS HiSOY	HS 28E90	2.8	4-Oct	83	1.0	*89	68	*91	33.7	19.7	--	--	--	--
FS HiSOY	HS 28X70	2.8	4-Oct	83	1.0	81	78	*89	34.8	18.1	74	1.0	35.1	17.9
Genesis	G2550E	2.5	4-Oct	*87	1.3	*87	81	*93	32.8	20.8	--	--	--	--
Genesis	G2840E	2.7	4-Oct	*86	1.2	*88	78	*91	33.6	20.0	*78	1.0	34.7	19.4
Golden Harvest	GH2788X Brand	2.7	28-Sep	80	1.0	81	81	80	35.0	19.1	72	1.0	34.7	18.7
Golden Harvest	GH2818E3 Brand	2.8	4-Oct	*84	1.3	*88	73	*91	33.9	19.7	--	--	--	--
Impact	21LGT157N	2.1	18-Sep	83	1.1	85	76	87	33.5	20.4	--	--	--	--
Impact	23E927N	2.3	28-Sep	79	1.2	79	77	81	33.5	19.9	--	--	--	--

TABLE 2. CONTINUED. 2020 Southern Region Glyphosate Tolerant Soybean Trial (3 of 4)

Brand (Entrant)	Entry	Maturity Group	Maturity Date ¹	2020 3-Test Average		2020 Yields			2020 Composition ¹		2019 3-Test Average		2019 Composition ¹	
				Yield (bu/A)	Lodging (1-5)	Arlington (bu/A)	Janesville (bu/A)	Platteville (bu/A)	Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
Impact	24LGT167N	2.4	25-Sep	83	1.3	*88	78	83	33.1	19.8	--	--	--	--
Impact	25E152N	2.5	3-Oct	*86	1.4	*89	82	88	33.0	20.4	--	--	--	--
Impact	27E962N	2.7	4-Oct	*84	1.2	86	75	*91	33.7	19.8	--	--	--	--
Jung	1243R2X	2.4	27-Sep	*86	1.3	82	*88	87	34.5	18.9	--	--	--	--
Jung	1262R2X	2.6	25-Sep	83	1.3	85	79	86	34.6	18.6	--	--	--	--
Jung	1284R2X	2.8	4-Oct	82	1.0	85	78	85	34.2	18.2	--	--	--	--
Legacy Seeds	LS212-20	2.1	25-Sep	67	1.5	76	61	64	32.7	20.3	--	--	--	--
Legacy Seeds	LS-2139	2.1	20-Sep	*85	1.3	82	*89	83	35.8	19.1	75	1.0	36.4	17.8
Legacy Seeds	LS252-20	2.5	3-Oct	83	1.5	79	80	*89	32.9	20.6	--	--	--	--
LG Seeds	LGS2007RX	2.0	22-Sep	*91	1.0	*91	*93	*91	36.0	19.1	*76	1.0	36.4	17.6
LG Seeds	LGS2444RX	2.4	25-Sep	81	1.2	*88	71	83	34.7	18.4	*76	1.0	35.9	17.5
LG Seeds	C2888RX	2.8	3-Oct	83	1.2	81	84	83	34.4	18.2	74	1.0	35.3	18.1
NK	S16-K2X Brand	1.6	17-Sep	*85	1.4	80	*88	87	35.5	19.5	--	--	--	--
NK	S21-W8X Brand	2.1	22-Sep	77	1.3	83	68	78	34.8	19.9	*79	1.0	35.9	18.3
NK	S23-G5X Brand	2.3	25-Sep	82	1.6	86	77	84	34.8	19.9	--	--	--	--
NK	S25-V8X Brand	2.5	2-Oct	81	1.7	85	72	87	34.7	19.1	72	1.0	34.7	18.5
NK	S27-M8X Brand	2.7	28-Sep	79	1.0	85	73	79	34.7	19.2	66	1.0	35.1	18.5
O'Brien	O'SOY2120GT27LL	2.1	18-Sep	75	1.0	80	70	77	34.2	19.8	--	--	--	--
O'Brien	O'SOY2520GT27LL	2.5	25-Sep	83	1.2	*87	75	86	34.4	19.3	*80	1.0	35.1	18.4
P3	2023E	2.2	2-Oct	82	1.0	82	80	83	33.6	19.2	70	1.0	34.4	18.3
P3	1924E	2.4	28-Sep	79	1.2	84	76	76	33.8	19.5	73	1.0	33.9	19.4
P3	2126E	2.6	4-Oct	82	1.1	*89	65	*91	33.4	19.1	--	--	--	--
P3	1928E	2.8	4-Oct	*85	1.0	*90	75	*89	33.6	19.7	*81	1.0	34.4	19.6
Renk	RS280NX	2.8	4-Oct	*84	1.1	84	79	88	33.5	18.8	*78	1.0	33.9	19.1

TABLE 2. CONTINUED. 2020 Southern Region Glyphosate Tolerant Soybean Trial (4 of 4)

Brand (Entrant)	Entry	Maturity Group	Maturity Date ¹	2020 3-Test Average		2020 Yields			2020 Composition ¹		2019 3-Test Average		2019 Composition ¹	
				Yield (bu/A)	Lodging (1-5)	Arlington (bu/A)	Janesville (bu/A)	Platteville (bu/A)	Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
Renk	RS288NX	2.8	3-Oct	80	1.0	81	82	79	34.4	18.1	--	--	--	--
Tracy	2541GTLL	2.5	28-Sep	81	1.2	81	74	88	34.7	19.0	--	--	--	--
Tracy	2552E	2.5	25-Sep	*89	1.3	83	*87	*96	33.1	20.4	--	--	--	--
		Mean	28-Sep	83	1.2	85	78	86	34.1	19.3	74	1.0	35.3	18.4
		LSD (0.10)	--	7	NS	7	9	8	0.5	0.3	5	NS	0.6	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.

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

TABLE 3. 2020 Central Region Glyphosate Tolerant Soybean Trial (1 of 4)

Brand (Entrant)	Entry	Maturity Group	Maturity Date ¹	2020 3-Test Average		2020 Yields			2020 Composition ¹		2019 3-Test Average		2019 Composition ¹	
				Yield (bu/A)	Lodging (1-5)	Fond du Lac (bu/A)	Galesville (bu/A)	Hancock (bu/A)	Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
AgriGold	G1710RX	1.7	22-Sep	76	1.0	65	83	81	35.7	19.5	60	1.0	36.8	19.0
AgriGold	G1850RX	1.8	25-Sep	75	1.0	66	72	86	34.6	19.8	*67	1.0	35.5	18.9
AgriGold	G1990RX	1.9	25-Sep	*80	1.0	71	80	89	35.3	19.3	*69	1.0	35.6	18.8
AgriGold	G2009RX	2.0	25-Sep	*80	1.2	66	81	*92	34.6	19.4	60	1.0	34.3	19.1
AgriGold	G2405RX	2.4	29-Sep	*84	1.0	67	*91	*93	35.0	19.0	--	--	--	--
Apex	AE1910	1.9	22-Sep	74	1.0	63	*86	73	33.7	19.7	--	--	--	--
Asgrow	AG14X0	1.4	22-Sep	77	1.0	65	81	86	34.9	20.3	59	1.0	34.1	20.1
Asgrow	AG16X0	1.6	22-Sep	*78	1.0	65	85	83	32.2	20.5	--	--	--	--
Asgrow	AG20X9	2.0	25-Sep	*83	1.0	*73	*88	*90	32.8	19.2	61	1.0	34.5	18.9
Asgrow	AG26X0	2.6	29-Sep	*84	1.0	69	*93	89	34.8	18.5	--	--	--	--
Asgrow	AG26X8	2.6	5-Oct	76	1.2	62	*87	78	33.5	19.5	--	--	--	--
BioGene	BG6200LLGT27	2.0	29-Sep	77	1.0	70	80	82	34.4	19.9	59	1.0	34.9	19.1
Credenz	CZ 1660GTLL	1.6	22-Sep	*85	1.0	*77	*93	85	33.8	20.2	--	--	--	--
Credenz	CZ 1859GTLL	1.8	22-Sep	77	1.0	67	84	80	33.2	20.4	*64	1.0	34.2	19.7
Credenz	CZ 2040GTLL	2.0	29-Sep	*81	1.0	*74	82	86	34.0	20.1	--	--	--	--
Credenz	CZ 2360GTLL	2.3	5-Oct	*83	1.0	66	*86	*98	33.5	19.8	--	--	--	--
Dairyland	DSR-1032E	1.0	18-Sep	67	1.2	55	71	74	34.2	19.8	--	--	--	--
Dairyland	DSR-1318E	1.3	22-Sep	71	1.2	60	76	79	33.6	18.6	--	--	--	--
Dairyland	DSR-1673E	1.6	22-Sep	77	1.0	58	85	87	33.6	19.3	--	--	--	--
Dairyland	DSR-2030E	2.0	5-Oct	77	1.4	70	75	86	33.9	19.1	--	--	--	--
Dairyland	E20-101E	2.0	25-Sep	*82	1.0	*73	79	*94	34.4	19.3	--	--	--	--
Dairyland	DSR-2112E	2.1	5-Oct	75	1.0	66	77	84	33.6	20.0	--	--	--	--

TABLE 3. CONTINUED. 2020 Central Region Glyphosate Tolerant Soybean Trial (2 of 4)

Brand (Entrant)	Entry	Maturity Group	Maturity Date ¹	2020 3-Test Average		2020 Yields			2020 Composition ¹		2019 3-Test Average		2019 Composition ¹	
				Yield (bu/A)	Lodging (1-5)	Fond du Lac (bu/A)	Galesville (bu/A)	Hancock (bu/A)	Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
Dairyland	DSR-2259E	2.2	5-Oct	70	1.0	53	78	80	34.4	19.0	--	--	--	--
Dairyland	DSR-2424E	2.4	5-Oct	73	1.0	54	79	85	32.8	20.3	--	--	--	--
Dyna-Gro	S17EN80	1.7	22-Sep	75	1.0	62	81	83	34.5	19.3	--	--	--	--
Dyna-Gro	S17XT29	1.7	22-Sep	*80	1.0	*76	80	85	36.0	19.4	--	--	--	--
Dyna-Gro	S19EN21	1.9	5-Oct	77	1.0	69	79	82	34.0	19.2	--	--	--	--
Dyna-Gro	S21XT49	2.1	25-Sep	*78	1.0	*78	76	81	34.8	19.4	61	1.0	34.9	18.9
FS HiSOY	HS 16X80	1.6	25-Sep	73	1.0	62	77	79	35.2	19.4	--	--	--	--
FS HiSOY	HS 18X70	1.8	5-Oct	74	1.0	69	72	81	34.1	19.6	60	1.0	35.6	19.2
FS HiSOY	HS 19X90	1.9	25-Sep	*78	1.0	66	82	86	33.9	19.5	61	1.0	34.6	19.1
FS HiSOY	HS 21X90	2.1	29-Sep	74	1.0	53	80	88	33.6	18.6	56	1.0	33.8	18.9
FS HiSOY	HS 22X00	2.2	25-Sep	*79	1.2	62	*89	85	32.1	20.3	--	--	--	--
FS HiSOY	HS 23E00	2.3	5-Oct	73	1.0	58	82	80	34.4	19.2	--	--	--	--
FS HiSOY	HS 24X80	2.4	5-Oct	*79	1.3	55	*92	*90	34.2	18.6	58	1.0	35.0	18.1
Genesis	G2150E	2.1	5-Oct	*81	1.0	69	84	*91	32.7	19.6	--	--	--	--
Genesis	G2190GL	2.1	25-Sep	*82	1.0	*74	*87	85	32.4	20.2	--	--	--	--
Genesis	G2350E	2.3	5-Oct	70	1.0	61	80	70	34.2	19.4	--	--	--	--
Golden Harvest	GH1414X Brand	1.4	22-Sep	*79	1.0	71	84	82	34.1	19.3	--	--	--	--
Golden Harvest	GH1638X Brand	1.6	18-Sep	75	1.0	67	79	79	33.1	20.1	--	--	--	--
Golden Harvest	GH2011E3 Brand	2.0	5-Oct	*78	1.0	64	84	85	35.7	18.9	--	--	--	--
Golden Harvest	GH2041X Brand	2.0	5-Oct	*79	1.2	66	*86	86	34.4	19.6	59	1.0	36.1	18.8
Golden Harvest	GH2329X Brand	2.3	29-Sep	77	1.2	70	80	80	33.6	20.1	--	--	--	--
Impact	19E152N	1.9	29-Sep	*80	1.0	69	80	*90	33.9	19.8	--	--	--	--
Impact	19E173N	1.9	25-Sep	75	1.0	67	78	80	33.8	19.1	--	--	--	--

TABLE 3. CONTINUED. 2020 Central Region Glyphosate Tolerant Soybean Trial (3 of 4)

Brand (Entrant)	Entry	Maturity Group	Maturity Date ¹	2020 3-Test Average		2020 Yields			2020 Composition ¹		2019 3-Test Average		2019 Composition ¹	
				Yield (bu/A)	Lodging (1-5)	Fond du Lac (bu/A)	Galesville (bu/A)	Hancock (bu/A)	Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
Jung	1203R2X	2.0	29-Sep	*79	1.0	66	82	*90	34.6	19.2	*68	1.0	34.1	19.4
Jung	1226R2X	2.2	5-Oct	*79	1.2	63	83	*91	33.3	19.8	59	1.0	34.2	19.9
Jung	1243R2X	2.4	5-Oct	*80	1.0	65	85	*90	34.7	18.9	57	1.0	32.7	19.9
Legacy Seeds	LS141-20	1.4	18-Sep	74	1.0	69	74	78	35.4	19.8	--	--	--	--
Legacy Seeds	LS142-20	1.4	22-Sep	77	1.0	68	79	85	33.4	20.2	--	--	--	--
Legacy Seeds	LS-1510	1.5	22-Sep	*82	1.0	*75	*91	79	33.4	20.4	61	1.0	33.3	20.0
Legacy Seeds	LS-1630	1.6	22-Sep	*80	1.0	68	84	87	33.8	20.4	--	--	--	--
Legacy Seeds	LS-1838	1.8	25-Sep	74	1.0	69	74	78	34.5	19.3	59	1.0	34.3	19.4
Legacy Seeds	LS212-20	2.1	5-Oct	70	1.3	57	77	77	32.0	19.9	--	--	--	--
Legacy Seeds	LS-2139	2.1	25-Sep	*78	1.0	67	75	*92	35.4	19.3	62	1.0	34.9	19.3
LG Seeds	C1838RX	1.8	25-Sep	77	1.1	67	75	87	35.3	19.3	*63	1.0	35.6	19.1
LG Seeds	LGS2444RX	2.4	25-Sep	75	1.0	57	*86	81	33.3	19.0	62	1.0	34.6	18.5
Mustang	18X128	1.8	25-Sep	77	1.0	68	77	86	34.9	19.2	*64	1.0	35.1	19.1
NK	S14-U9X Brand	1.4	22-Sep	*79	1.0	69	*87	83	34.8	19.2	*67	1.0	35.7	18.5
NK	S16-K2X Brand	1.6	22-Sep	76	1.0	68	77	83	34.0	19.6	--	--	--	--
NK	S20-J5X Brand	2.0	25-Sep	*78	1.2	66	81	86	34.3	19.8	60	1.0	36.0	19.1
NK	S21-W8X Brand	2.1	22-Sep	77	1.3	69	80	81	34.0	19.7	*65	1.0	35.7	18.8
NK	S23-G5X Brand	2.3	29-Sep	*81	1.0	68	*86	*91	34.6	19.6	--	--	--	--
O'Brien	O'SOY1620GT27LL	1.6	22-Sep	*78	1.0	*72	83	79	33.3	20.2	--	--	--	--
O'Brien	O'SOY2120GT27LL	2.1	5-Oct	*80	1.0	66	*88	85	33.7	19.6	--	--	--	--
ProHarvest	2084CR2Y	2.0	22-Sep	*80	1.0	69	85	88	34.4	19.7	*64	1.0	35.7	18.9
Renk	RS248NX	2.4	29-Sep	*84	1.0	62	*93	*97	34.3	19.3	60	1.0	35.1	19.3
Renk	RS250NX	2.5	5-Oct	*82	1.0	71	*86	89	34.2	18.5	--	--	--	--

TABLE 3. CONTINUED. 2020 Central Region Glyphosate Tolerant Soybean Trial (4 of 4)

Brand (Entrant)	Entry	Maturity Group	Maturity Date ¹	2020 3-Test Average		2020 Yields			2020 Composition ¹		2019 3-Test Average		2019 Composition ¹	
				Yield (bu/A)	Lodging (1-5)	Fond du Lac (bu/A)	Galesville (bu/A)	Hancock (bu/A)	Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
Stine	17EB02	1.7	22-Sep	68	1.0	50	80	75	33.8	19.7	--	--	--	--
Stine	21EA32	2.1	29-Sep	75	1.0	57	80	87	33.2	19.6	--	--	--	--
Tracy	1641GTLL	1.6	22-Sep	*82	1.0	*74	*88	84	33.7	20.3	59	1.0	34.5	19.7
Tracy	2142GTLL	2.1	29-Sep	*81	1.0	71	84	*90	32.9	19.9	--	--	--	--
Mean			27-Sep	78	1.0	66	82	85	34.0	19.6	61	1.0	34.5	19.2
LSD (0.10)			--	7	0.2	6	7	8	0.7	0.3	6	NS	1.4	0.6

* 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.

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

TABLE 4. 2020 North Central Region Glyphosate Tolerant Soybean Trial (1 of 3)

Brand (Entrant)	Entry	Maturity Group	Maturity Date ¹	2020 3-Test Average		2020 Yields				2020 Composition ¹		2019 3-Test Average		2019 Composition ¹	
				Yield (bu/A)	Lodging (1-5)	Marshfield (bu/A)	Menomonie (bu/A)	Seymour (bu/A)	SDS ²	Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
AgriGold	G1301RX	1.3	18-Sep	*67	1.0	*76	69	56	0	34.6	19.2	--	--	--	--
AgriGold	G1502RX	1.5	21-Sep	*70	1.0	*75	73	*61	0	34.3	18.5	--	--	--	--
Apex	AE1300	1.3	21-Sep	64	1.0	73	70	51	5	34.5	18.4	--	--	--	--
Apex	AE1410	1.4	21-Sep	56	1.0	49	65	54	0	33.4	19.2	--	--	--	--
Apex	AE1710	1.6	21-Sep	62	1.0	61	70	56	0	33.6	18.5	--	--	--	--
Apex	AE1910	1.9	18-Sep	65	1.0	64	73	58	0	34.3	18.6	--	--	--	--
Asgrow	AG10X9	1.0	21-Sep	*69	1.0	*75	*79	54	0	34.6	18.8	--	--	--	--
Asgrow	AG11X8	1.1	18-Sep	65	1.0	64	*75	57	0	33.9	19.2	*69	1.3	34.3	17.5
Asgrow	AG14X0	1.4	18-Sep	*68	1.0	74	73	57	0	34.7	19.7	66	1.0	33.8	18.7
Asgrow	AG16X0	1.6	21-Sep	*74	1.0	*76	*80	*65	0	33.5	19.2	--	--	--	--
BioGene	BG9130E3	1.3	18-Sep	65	1.0	74	70	53	0	34.5	18.2	68	1.1	32.2	18.4
BioGene	BG6160LLGT27	1.6	21-Sep	*71	1.0	*81	72	59	3	34.6	19.4	62	1.0	34.2	18.5
Credenz	CZ 0729GTLL	0.7	18-Sep	58	1.0	56	69	49	0	34.4	18.8	59	1.0	34.0	17.8
Credenz	CZ 1139GTLL	1.1	18-Sep	56	1.0	56	67	45	18	33.0	19.6	61	1.0	32.6	18.5
Credenz	CZ 1660GTLL	1.6	18-Sep	*71	1.0	*79	*76	*60	0	34.1	19.6	*69	1.0	33.9	19.2
Dairyland	DSR-0847E	0.8	18-Sep	57	1.0	50	73	46	0	34.2	19.5	--	--	--	--
Dairyland	DSR-0920E	0.9	18-Sep	66	1.0	68	73	56	0	35.1	18.7	--	--	--	--
Dairyland	DSR-1032E	1.0	18-Sep	64	1.0	73	67	51	0	35.0	19.3	--	--	--	--
Dairyland	DSR-1318E	1.3	21-Sep	*67	1.0	73	71	58	1	34.0	18.0	--	--	--	--
Dairyland	DSR-1673E	1.6	18-Sep	66	1.0	70	73	54	3	33.9	18.7	--	--	--	--
Dyna-Gro	S14EN90	1.4	21-Sep	*68	1.0	*79	69	57	0	34.5	18.4	--	--	--	--
Dyna-Gro	S17EN80	1.7	21-Sep	66	1.0	72	71	57	0	34.0	19.0	--	--	--	--

TABLE 4. CONTINUED. 2020 North Central Region Glyphosate Tolerant Soybean Trial (2 of 3)

Brand (Entrant)	Entry	Maturity Group	Maturity Date ¹	2020 3-Test Average		2020 Yields				2020 Composition ¹		2019 3-Test Average		2019 Composition ¹	
				Yield (bu/A)	Lodging (1-5)	Marshfield (bu/A)	Menomonie (bu/A)	Seymour (bu/A)	SDS ²	Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
Dyna-Gro	S17XT29	1.7	21-Sep	*70	1.0	*79	*76	56	0	36.0	18.7	--	--	--	--
Federal Hybrids	F0990N R2X	0.9	18-Sep	62	1.0	66	68	51	0	34.2	19.4	59	1.3	34.3	17.6
Federal Hybrids	F1210N R2X	1.2	21-Sep	65	1.0	66	73	56	0	34.4	18.8	--	--	--	--
Federal Hybrids	F1500N R2X	1.5	21-Sep	*72	1.0	*82	*75	*60	0	34.1	19.5	--	--	--	--
Federal Hybrids	F1690N R2X	1.6	21-Sep	*67	1.0	73	70	58	0	35.8	18.7	67	1.0	34.3	18.6
FS HiSOY	HS 14X90	1.4	18-Sep	*70	1.0	*78	*77	56	2	33.8	19.3	67	1.0	32.7	18.7
FS HiSOY	HS 16X80	1.6	21-Sep	64	1.0	65	72	56	0	35.9	18.6	61	1.0	34.0	18.9
FS HiSOY	HS 18X70	1.8	21-Sep	*67	1.0	66	72	*64	0	35.0	18.7	*69	1.1	34.1	18.1
Genesis	G1450E	1.4	21-Sep	56	1.0	46	65	56	0	33.8	19.2	--	--	--	--
Genesis	G1650E	1.6	21-Sep	*67	1.0	68	*78	54	0	33.9	18.8	--	--	--	--
Genesis	G1680GL	1.6	21-Sep	*67	1.0	72	71	56	0	34.5	19.3	68	1.0	34.2	18.6
Golden Harvest	GH1414X Brand	1.4	21-Sep	*72	1.0	*80	*75	*62	5	34.3	18.7	--	--	--	--
Impact	08E127N	0.8	21-Sep	58	1.0	57	69	48	0	34.5	19.3	--	--	--	--
Impact	13LGT132N	1.3	21-Sep	57	1.0	57	62	53	1	34.9	19.0	--	--	--	--
Impact	14E052N	1.4	21-Sep	66	1.0	73	69	55	3	34.2	18.7	--	--	--	--
Jung	1136R2X	1.3	14-Sep	64	1.0	62	74	56	0	34.6	18.6	--	--	--	--
Jung	1161R2X	1.6	21-Sep	*70	1.0	69	*80	*61	0	34.3	18.9	62	1.0	34.2	18.4
Jung	1193R2X	1.9	21-Sep	*67	1.0	68	74	59	0	33.7	19.2	58	1.0	33.3	18.9
Legacy Seeds	LS123-20	1.2	18-Sep	65	1.0	67	70	57	0	34.5	18.9	--	--	--	--
Legacy Seeds	LS131-20	1.3	21-Sep	*67	1.0	71	*77	53	0	34.3	19.4	--	--	--	--
Legacy Seeds	LS-1320	1.3	18-Sep	*67	1.0	*76	70	57	0	34.5	18.5	--	--	--	--
Legacy Seeds	LS141-20	1.4	21-Sep	*67	1.0	73	*75	53	3	34.0	19.4	--	--	--	--
Legacy Seeds	LS142-20	1.4	21-Sep	66	1.0	67	69	*62	0	33.6	19.2	--	--	--	--
Legacy Seeds	LS-1430	1.4	21-Sep	*70	1.0	74	*78	57	0	34.3	19.6	--	--	--	--

TABLE 4. CONTINUED. 2020 North Central Region Glyphosate Tolerant Soybean Trial (3 of 3)

Brand (Entrant)	Entry	Maturity Group	Maturity Date ¹	2020 3-Test Average		2020 Yields				2020 Composition ¹		2019 3-Test Average		2019 Composition ¹	
				Yield (bu/A)	Lodging (1-5)	Marshfield (bu/A)	Menomonie (bu/A)	Seymour (bu/A)	SDS ²	Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
Legacy Seeds	LS-1510	1.5	21-Sep	*69	1.0	*75	74	58	3	34.7	19.4	*73	1.0	33.6	19.0
Legacy Seeds	LS-1630	1.6	21-Sep	63	1.0	54	*79	56	4	34.7	18.9	--	--	--	--
Legacy Seeds	LS-1838	1.8	21-Sep	*70	1.0	*77	74	59	0	35.5	18.4	62	1.0	34.9	18.6
LG Seeds	LGS1635RX	1.6	21-Sep	*71	1.0	*83	72	59	0	35.9	18.6	64	1.0	34.9	18.4
LG Seeds	C1838RX	1.8	21-Sep	*69	1.0	74	72	*61	0	35.3	18.5	64	1.0	34.3	18.0
NK	S04-Q7X Brand	0.4	8-Sep	52	1.0	41	64	47	0	34.5	19.8	--	--	--	--
NK	S09-D4X Brand	0.9	18-Sep	*67	1.0	*75	*77	48	0	32.6	20.0	66	1.1	32.5	18.0
NK	S12-T2X Brand	1.2	21-Sep	56	1.0	47	68	52	0	35.7	19.3	--	--	--	--
NK	S14-U9X Brand	1.4	21-Sep	*73	1.0	*81	*76	*61	0	34.8	18.4	*71	1.0	34.1	17.9
NK	S16-K2X Brand	1.6	18-Sep	*67	1.0	71	71	57	0	34.4	19.0	--	--	--	--
NK	S18-H3X Brand	1.8	21-Sep	*72	1.0	*77	*76	*63	0	34.4	19.2	*70	1.2	33.6	18.1
O'Brien	O'SOY1620GT27LL	1.6	21-Sep	*69	1.0	71	*76	59	0	34.5	19.4	--	--	--	--
ProHarvest	1638X	1.6	21-Sep	*67	1.0	74	69	58	0	36.5	18.3	67	1.0	34.7	18.2
ProHarvest	2084CR2Y	2.0	21-Sep	*69	1.0	*75	*75	58	10	35.1	18.7	*72	1.5	33.8	18.5
Renk	RS149NX	1.4	21-Sep	*68	1.0	74	*76	54	0	34.5	18.5	66	1.1	32.9	18.1
Renk	RS150NX	1.5	18-Sep	*72	1.0	*77	*76	*64	0	34.3	19.5	--	--	--	--
Stine	12EB32	1.2	21-Sep	65	1.0	70	72	52	6	34.2	18.5	--	--	--	--
Stine	13EA12	1.3	21-Sep	62	1.0	69	70	46	39	34.3	18.5	--	--	--	--
Stine	17EB02	1.7	21-Sep	*67	1.0	72	70	58	0	33.8	18.9	--	--	--	--
Mean			19-Sep	66	1.0	69	72	56	2	34.4	19.0	65	1.1	33.6	18.4
LSD (0.10)			--	7	--	8	5	5	5	0.5	0.3	8	NS	0.5	0.5

* 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.

² SDS = Sudden Death Syndrome ratings are listed as a disease index, which was conducted using the following method. Disease incidence (DI) was estimated as the percentage of symptomatic plants within a plot. Disease severity (DS) was determined using a 1-to-9 scale. Using the DI and DS scores, a disease index (DX) measure was calculated using the formula $DX = DI \times DS / 9$ (Njiti et al. 1998).

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 (Entrant)	Entry	Maturity Group	Maturity Date ¹	2020 3-Test Average		2020 Yields			2020 Arlington ²		2020 Composition ¹		2019 3-Test Average		2019 Composition ¹	
				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	AE0710	0.7	18-Sep	*59	1.0	69	57	51	18-Sep	80	35.7	18.8	--	--	--	--
Apex	AE1010	1.0	18-Sep	58	1.0	61	*62	51	11-Sep	*84	35.4	18.7	--	--	--	--
Apex	AE1300	1.3	21-Sep	*60	1.0	*74	57	49	26-Sep	*86	34.7	18.3	--	--	--	--
Apex	AE1410	1.4	21-Sep	54	1.0	61	52	47	24-Sep	76	34.1	19.1	--	--	--	--
Asgrow	AG10X9	1.0	18-Sep	*66	1.0	*78	*65	*54	9-Sep	*89	34.8	18.8	*56	1.0	33.8	17.5
BioGene	BG9100E3	1.0	21-Sep	51	1.0	48	57	49	13-Sep	80	35.7	18.2	--	--	--	--
Cornelius	CB07R77	0.7	18-Sep	*60	1.0	64	58	*56	9-Sep	*89	34.1	19.6	--	--	--	--
Credenz	CZ 0419GTLL	0.4	8-Sep	*63	1.0	67	*67	*55	6-Sep	*86	36.0	19.3	--	--	--	--
Credenz	CZ 0729GTLL	0.7	18-Sep	58	1.0	59	60	*54	7-Sep	82	34.3	19.1	--	--	--	--
Credenz	CZ 1139GTLL	1.1	21-Sep	57	1.0	64	59	49	15-Sep	79	33.0	19.4	--	--	--	--
Dairyland	DSR-0645E	0.6	8-Sep	52	1.0	41	59	*54	3-Sep	82	33.3	19.7	--	--	--	--
Dairyland	DSR-0717E	0.7	18-Sep	*62	1.0	*72	59	*55	13-Sep	79	35.0	19.3	--	--	--	--
Dairyland	DSR-0847E	0.8	18-Sep	58	1.0	61	61	*53	15-Sep	*83	34.5	19.3	--	--	--	--
Dairyland	DSR-0920E	0.9	21-Sep	*59	1.0	67	59	52	14-Sep	*89	35.1	18.7	--	--	--	--
Dairyland	DSR-1032E	1.0	21-Sep	*62	1.0	*77	59	50	6-Sep	82	35.0	18.8	--	--	--	--
Genesis	G0690GL	0.6	18-Sep	48	1.0	29	*62	51	9-Sep	81	34.8	19.6	--	--	--	--
Jung	1071R2X	0.7	18-Sep	*61	1.0	67	61	*55	4-Sep	79	34.8	19.7	*50	1.0	34.6	18.0
Jung	1072R2X	0.7	8-Sep	*63	1.0	69	*63	*56	3-Sep	77	33.7	19.5	--	--	--	--
Jung	1103R2X	1.0	18-Sep	49	1.0	38	57	52	13-Sep	*84	34.2	19.5	45	1.0	34.4	18.1
Legacy Seeds	LS082-20	0.8	18-Sep	52	1.0	50	58	48	15-Sep	78	34.4	19.4	--	--	--	--
Legacy Seeds	LS-0930	0.9	14-Sep	*59	1.0	63	*62	51	14-Sep	82	32.7	19.8	--	--	--	--
Legacy Seeds	LS-1039	1.0	18-Sep	*66	1.0	*76	*65	*58	8-Sep	*83	34.3	19.8	*57	1.0	33.7	18.3
Legacy Seeds	LS111-20	1.1	18-Sep	*62	1.0	*72	61	52	15-Sep	*88	33.3	19.5	--	--	--	--

TABLE 5. CONTINUED. Northern Region Glyphosate Tolerant & Arlington Early MG Soybean Trial (2 of 2) PAGE 19

Brand (Entrant)	Entry	Maturity Group	Maturity Date ¹	2020 3-Test Average		2020 Yields			2020 Arlington ²		2020 Composition ¹		2019 3-Test Average		2019 Composition ¹	
				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 (%)
Legacy Seeds	LS123-20	1.2	18-Sep	58	1.0	70	58	46	13-Sep	*85	34.2	18.8	--	--	--	--
LG Seeds	C1000RX	1.0	18-Sep	51	1.0	45	58	49	17-Sep	*86	35.1	19.4	43	1.0	34.6	18.1
LG Seeds	LGS1550RX	1.5	21-Sep	*61	1.0	*72	59	51	15-Sep	*87	34.4	19.2	--	--	--	--
NK	S02-F9X Brand	0.2	3-Sep	56	1.0	63	51	*55	1-Sep	74	32.4	20.1	41	1.0	32.8	18.6
NK	S04-Q7X Brand	0.4	8-Sep	53	1.0	44	*62	*53	3-Sep	*84	34.6	19.6	--	--	--	--
NK	S05-N5X Brand	0.5	5-Sep	*61	1.0	64	*63	*55	3-Sep	*83	33.0	20.0	49	1.0	33.3	18.3
NK	S07-Q4X Brand	0.7	18-Sep	*63	1.0	70	*62	*57	3-Sep	78	34.4	19.4	*51	1.0	34.3	18.1
NK	S09-D4X Brand	0.9	14-Sep	*67	1.0	*76	*67	*57	15-Sep	*89	32.4	20.3	*56	1.0	32.3	18.2
ProHarvest	0985CR2Y	0.9	18-Sep	*69	1.0	*82	*68	*57	6-Sep	*90	33.9	19.9	*60	1.0	34.0	18.1
Stine	09EA02	0.9	18-Sep	*60	1.0	67	61	52	4-Sep	*83	35.4	18.8	--	--	--	--
Mean			16-Sep	59	1.0	63	60	53	10-Sep	83	34.3	19.3	50	1.0	33.7	18.1
LSD (0.10)			--	10	--	10	6	5	--	7	0.5	0.4	10	--	0.5	0.2

* 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.

² 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.

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

TABLE 6. 2020 Southern Conventional Soybean Trial

Brand (Entrant)	Entry	Herbicide Trait ¹	Maturity Group	Maturity Date ²	2020 2-Test Average		2020 Yields		2020 Composition ²		2019 2-Test Average		2019 Composition 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	LS254-20C	CN	2.5	25-Sep	74	1.3	61	*86	36.4	19.2	--	--	--	--
Legacy Seeds	LS264-20C	CN	2.6	4-Oct	*92	1.5	*89	*96	33.0	20.2	--	--	--	--
Legend Seeds	LS 22C165N	CN	2.2	25-Sep	*88	1.0	*86	*90	33.7	19.8	--	--	--	--
Public	MN1410	CN	1.4	3-Sep	65	1.8	59	71	35.6	19.9	65	1.4	37.1	18.1
SB&B	SB90	CN	1.1	1-Sep	65	1.0	65	66	35.6	20.1	67	1.0	37.2	18.1
SB&B	SB1270	CN	1.2	13-Sep	54	1.0	50	57	36.0	19.4	63	1.3	38.3	17.3
SB&B	SB712	CN	1.2	7-Sep	67	1.3	68	67	38.5	18.9	--	--	--	--
SB&B	SB19	CN	1.3	13-Sep	67	2.1	61	73	34.7	19.9	68	1.3	37.0	17.5
Sevita	Candor	CN	1.9	19-Sep	72	2.0	66	78	37.9	18.6	69	1.1	39.3	17.1
Viking	1940KN	CN	1.9	22-Sep	79	1.4	80	78	33.1	20.6	--	--	--	--
Viking	0.E1993N	CN	1.9	21-Sep	70	1.0	71	69	34.5	19.0	--	--	--	--
Viking	2018N	CN	2.0	25-Sep	79	1.0	82	76	33.3	19.6	*78	1.0	33.6	18.8
Viking	2121N	CN	2.1	25-Sep	*85	1.5	85	85	34.7	20.2	--	--	--	--
Viking	0.2155N	CN	2.1	30-Sep	*83	1.6	85	81	35.0	17.9	*79	1.5	35.9	16.8
Viking	0.2244AT	CN	2.2	20-Sep	77	1.9	78	76	35.2	19.8	--	--	--	--
Viking	2340KN	CN	2.3	28-Sep	*85	1.1	81	*89	33.7	19.7	--	--	--	--
Viking	0.2418N	CN	2.4	25-Sep	*85	1.5	82	*87	34.6	18.6	*79	1.0	35.9	17.0
Viking	0.2188AT12N	CN	2.5	25-Sep	*86	2.0	*88	84	35.1	19.0	*77	1.6	35.7	17.8
Viking	0.2702	CN	2.7	4-Oct	*87	1.0	83	*92	35.8	19.5	--	--	--	--
Check	11628	RR2X	1.9	22-Sep	*84	1.0	85	83	35.9	19.1	--	--	--	--
Check	11504	RR2X	2.1	23-Sep	*84	1.0	84	83	34.8	19.9	--	--	--	--
Check	11803	LLGT27	2.5	27-Sep	*92	1.0	*92	*91	34.1	19.6	--	--	--	--
Check	11835	E3	2.8	4-Oct	*91	1.0	*92	*90	33.7	19.8	--	--	--	--
Mean				21-Sep	79	1.3	77	80	35.0	19.5	72	1.1	36.7	17.8
LSD (0.10)				--	9	NS	6	10	0.5	0.4	4	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, 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. 2020 North Central Conventional Soybean Trial

Brand (Entrant)	Entry	Herbicide Trait ¹	Maturity Group	2020 Menomonie					2019 Chippewa Falls			
				Maturity Date	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
Public	MN1410	CN	1.4	21-Sep	62	1.0	34.5	19.8	*67	1.5	36.3	18.9
SB&B	SB90	CN	1.1	19-Sep	62	1.0	34.7	19.8	58	1.3	36.5	18.6
SB&B	SB1270	CN	1.2	26-Sep	60	1.0	34.8	19.0	52	1.8	36.8	17.6
SB&B	SB712	CN	1.2	24-Sep	*69	1.0	36.7	18.6	--	--	--	--
SB&B	SB19	CN	1.3	24-Sep	61	1.0	34.4	18.3	61	1.0	35.3	17.9
Sevita	Skyline	CN	1.0	21-Sep	60	1.0	37.6	18.7	56	1.8	38.8	18.1
Sevita	Candor	CN	1.9	26-Sep	65	1.0	37.4	17.6	58	2.3	39.1	17.1
Viking	1218N	CN	1.2	21-Sep	*72	1.0	34.4	18.8	62	1.0	35.7	18.2
Viking	0.1202N	CN	1.2	20-Sep	*67	1.0	35.3	18.1	*63	1.8	37.1	17.5
Viking	0.1518N	CN	1.5	24-Sep	*67	1.0	35.1	18.2	*66	1.3	36.9	17.3
Check	11737	RR2X	1.4	21-Sep	*74	1.0	34.3	18.7	--	--	--	--
Check	11756	LLGT27	1.5	24-Sep	*73	1.0	33.4	19.8	--	--	--	--
Check	11798	LLGT27	1.6	24-Sep	*73	1.0	33.2	19.8	--	--	--	--
Check	11532	RR2X	1.8	26-Sep	*74	1.0	35.2	18.8	--	--	--	--
Mean				22-Sep	67	1.0	35.0	18.8	61	1.8	36.8	17.9
LSD (0.10)				--	7	--	0.6	0.3	8	0.9	1.3	0.7

* 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, LLGT27 = glufosinate/glyphosate/isoxaflutole

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

TABLE 8.
2020 Seed Source for
Soybean Entries

Brand (Entrant)	Company	Phone Number	Website
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.aganytime.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	agriculture.basf.com
Dairyland	Dairyland Seed	(608) 513-4265	www.dairylandseed.com
DONMARIO (Burrus)	Burrus Bros & Associated Growers	(815) 338-1141	burrusseed.com
DONMARIO (GDM)	GDM Seeds, Inc.	(217) 680-6044	www.donmario.com/en/usa/home/
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	Renk Seed	(608) 837-7351	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	(800) 242-1855	www.jungseedgenetics.com
Legacy Seeds	Legacy Seeds Inc.	(715) 538-3238	www.legacyseeds.com
Legend Seeds	Legend Seeds Inc.	(608) 577-8132	www.legendseeds.net
LG Seeds	LG Seeds	(800) 544-6310	www.lgseeds.com
Mustang	Mustang Seeds	(605) 256-6529	www.mustangseeds.com
NK	Syngenta	(262) 220-3015	www.nksoybeans.com
O'Brien	O'Brien Hybrids	(608) 576-3685	www.obrienhybrids.com
P3	Cornelius Seed	(563) 672-3463	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) 837-7351	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	(608) 387-3954	www.stinseed.com
Tracy	Tracy Seeds, LLC	(608) 752-2767	www.tracyseeds.com
Viking	Albert Lea Seed	(800) 352-5247	www.alseed.com

TABLE 9. 2020 Temperature and Precipitation Summary

	Average Mean Temperature (° F)					Total Precipitation (inches)						
Trial Location		May	June	July	August	September		May	June	July	August	September
Arlington		55.5	68.7	74.2	69.6	59.6		4.3	4.4	5.4	3.6	4.3
	Departure	-0.2	3.1	4.8	2.3	0.3	Departure	0.6	-0.3	1.2	-0.3	0.8
Fond du Lac		55.9	69.6	74.9	72.2	61.2		3.3	5.4	8.3	5.5	2.9
	Departure	-0.4	3.6	4.5	3.6	0.5	Departure	0.2	1.5	4.9	1.9	-0.6
Galesville (Trempealeau)		58.9	70.1	75.2	72.1	60.5		6.6	7.0	3.9	2.3	4.5
	Departure	-0.4	1.6	2.5	1.6	-1.6	Departure	2.9	3.3	-0.5	-2.2	0.7
Janesville		57.2	70.5	75.4	71.3	60.6		5.5	4.3	5.9	2.6	5.5
	Departure	-1.5	2.0	3.0	0.9	-1.6	Departure	1.8	-0.1	2.1	-1.9	2.2
Hancock*		54.6	67.1	73.1	69.8	58.9		3.9	6.2	2.5	2.8	2.0
	Departure	-2.2	0.6	2.8	1.5	-1.1	Departure	0.1	1.7	-1.9	-1.4	-1.4
							Irrigation	0.4	1.1	3.7	4.0	0.8
Marshfield		54.3	66.6	71.4	68.5	56.7		4.2	4.5	3.7	3.8	2.4
	Departure	-1.8	0.8	1.3	0.4	-2.4	Departure	0.5	0.0	-0.3	-0.5	-1.6
Menomonie		56.8	69.2	72.6	69.8	58.3		4.9	8.3	4.4	2.2	1.4
	Departure	0.5	4.0	3.0	2.1	-0.9	Departure	1.2	3.8	0.5	-1.8	-2.4
Platteville (Lancaster)		55.7	69.1	74.2	70.6	59.6		5.5	7.8	5.2	3.7	7.3
	Departure	-1.6	2.2	3.4	1.6	-1.2	Departure	1.4	2.5	0.8	-0.5	4.2
Seymour (Green Bay)		55.1	68.1	73.9	70.0	59.7		5.7	4.2	3.2	2.3	2.4
	Departure	0.1	3.4	4.8	2.7	0.5	Departure	2.8	0.3	-0.3	-1.1	-0.7
Spooner*		54.8	66.9	71.2	68.8	55.8		3.1	3.0	6.1	2.4	2.2
	Departure	-0.9	2.0	1.9	1.5	-2.5	Departure	-0.4	-1.0	1.9	-1.8	-1.7
							Irrigation	0.0	1.0	0.0	0.0	0.0

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

Source: Midwestern Regional Climate Center; Long term normals from 1981 to 2010 used for departure data.

TABLE 10. 2020 Characteristics of Soybean Varieties (1 of 9)

Brand (Entrant)	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
AgriGold	G1301RX	1.3	RR2X	4	AgriShield Max, Saltro	PI 88788	Rps 1-c, 3-a	P	LTW	BR	BL
AgriGold	G1502RX	1.5	RR2X	4	AgriShield Max, Saltro	PI 88788	Rps 1-c	P	LTW	BR	BL
AgriGold	G1710RX	1.7	RR2X	3	AgriShield Max, Saltro	PI 88788	Rps 1-c	P	LTW	BR	BR
AgriGold	G1850RX	1.8	RR2X	3	AgriShield Max, Saltro	PI 88788	Rps 1-a, 3-a	P	G	BR	BF
AgriGold	G1990RX	1.9	RR2X	2,3	AgriShield Max, Saltro	PI 88788	Rps 1-a, 3-a	P	G	BR	BF
AgriGold	G2009RX	2.0	RR2X	2,3	AgriShield Max, Saltro	PI 88788	--	P	G	T	IB
AgriGold	G2405RX	2.4	RR2X	2,3	AgriShield Max, Saltro	PI 88788	--	P	LTW	T	BL
AgriGold	G2505RX	2.5	RR2X	2	AgriShield Max, Saltro	PI 88788	Rps 1-c	P	G	BR	IB
AgriGold	G2624RX	2.6	RR2X	2	AgriShield Max, Saltro	PI 88788	Rps 1-c, 3-a	P	LTW	BR	BL
AgriGold	G2900RX	2.9	RR2X	2	AgriShield Max, Saltro	PI 88788	Rps 1-c	P	G	BR	IB
Apex	AE0710	0.7	E3	5	CruiserMaxx, Vibrance	PI 88788	Rps 1-c, 3-a	P	G	BR	IB
Apex	AE1010	1.0	E3	5	CruiserMaxx, Vibrance	PI 88788	--	P	G	BR	G
Apex	AE1300	1.3	E3	4,5	CruiserMaxx, Vibrance	PI 88788	Rps 1-c	P	G	T	IB
Apex	AE1410	1.4	E3	4,5	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	AE1910	1.9	E3	3,4	CruiserMaxx, Vibrance	PI 88788	--	P	G	BR	IB
Asgrow	AG10X9	1.0	RR2X	4,5	Acceleron F/I	PI 88788	Rps 3-a	P	LTW	T	BR
Asgrow	AG11X8	1.1	RR2X	4	Acceleron F/I	PI 88788	Rps 3-a	P	LTW	T	BR
Asgrow	AG14X0	1.4	RR2X	3,4	Acceleron F/I, ILEVO	PI 88788	Rps 3-a	P	LTW	BR	BL
Asgrow	AG16X0	1.6	RR2X	3,4	Acceleron F/I, ILEVO	PI 88788	Rps 1-c	P	LTW	BR	BL
Asgrow	AG20X9	2.0	RR2X	3	Acceleron F/I, ILEVO	PI 88788	Rps 1-c	P	G	BR	IB
Asgrow	AG26X0	2.6	RR2X	2,3	Acceleron F/I, ILEVO	PI 88788	Rps 1-c	P	G	BR	IB
Asgrow	AG26X8	2.6	RR2X	2,3	Acceleron F/I, ILEVO	PI 88788	Rps 1-c	P	G	BR	IB
Asgrow	AG27X0	2.7	RR2X	2	Acceleron F/I, ILEVO	PI 88788	Rps 1-c	P	G	BR	IB
BioGene	BG9100E3	1.0	E3	5	Arma	PI 88788	--	P	G	BR	G

All characteristic information is provided by the originator.

¹ Herbicide Trait : CN = conventional, GT or RR2Y = glyphosate, RR2X = glyphosate/dicamba, E3 = glufosinate/glyphosate/2,4-D, GT27 = glyphosate/isoxaflutole, 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 = Clea, r 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. 2020 Characteristics of Soybean Varieties (2 of 9)

Brand (Entrant)	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
BioGene	BG9130E3	1.3	E3	4	Arma	PI 88788	Rps 1-c	P	G	T	IB
BioGene	BG6160LLGT27	1.6	LLGT27	4	Arma	PI 88788	Rps 1-k	P	LTW	T	BR
BioGene	BG6200LLGT27	2.0	LLGT27	3	Arma	PI 88788	--	W	LTW	BR	BR
Burrus	2239E	2.2	E3	2	PowerShield	PI 88788	Rps 1-k	P	G	BR	IB
Cornelius	CB07R77	0.7	RR2Y	5	Profit Guard Plus	PI 88788	Rps 1-c	--	--	--	--
Cornelius	CB24X64	2.4	RR2X	2	Profit Guard Plus	PI 88788	--	P	LTW	T	BL
Cornelius	CB26X78	2.6	RR2X	2	Profit Guard Plus	Peking	Rps 1-c	P	G	T	IB
Cornelius	CB29X33	2.9	RR2X	2	Profit Guard Plus	PI 88788	Rps 1-c, 3-a	P	LTW	BR	BL
Credenz	CZ 0419GTLL	0.4	LLGT27	5	Obvius Plus, Poncho/Votivo, ILEVO	PI 88788	Rps 1-c	P	LTW	BR	BL
Credenz	CZ 0729GTLL	0.7	LLGT27	4,5	Obvius Plus, Poncho/Votivo, ILEVO	PI 88788	Rps 3-a	P	LTW	T	BR
Credenz	CZ 1139GTLL	1.1	LLGT27	4,5	Obvius Plus, Poncho/Votivo, ILEVO	PI 88788	--	P	LTW	T	BR
Credenz	CZ 1660GTLL	1.6	LLGT27	3,4	Obvius Plus, Poncho/Votivo, ILEVO	PI 88788	Rps 1-k	P	LTW	T	BR
Credenz	CZ 1859GTLL	1.8	LLGT27	2,3	Obvius Plus, Poncho/Votivo, ILEVO	PI 88788	Rps 1-k	P	LTW	T	BL
Credenz	CZ 2040GTLL	2.0	LLGT27	3	Obvius Plus, Poncho/Votivo, ILEVO	PI 88788	Rps 1-a	W	LTW	BR	BR
Credenz	CZ 2360GTLL	2.3	LLGT27	2,3	Obvius Plus, Poncho/Votivo, ILEVO	PI 88788	Rps 1-a	P	LTW	T	BL
Credenz	CZ 2550GTLL	2.5	LLGT27	2	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	--	P	LTW	T	BR
Credenz	CZ 2830GTLL	2.8	LLGT27	2	Obvius Plus, Poncho/Votivo, ILEVO	PI 88788	Rps 1-k	P	LTW	BR	BR
Dairyland	DSR-0645E	0.6	E3	5	CruiserMaxx, Maxim Quattro, ILEVO	--	--	--	--	--	--
Dairyland	DSR-0717E	0.7	E3	5	CruiserMaxx, Maxim Quattro, ILEVO	--	--	--	--	--	--
Dairyland	DSR-0847E	0.8	E3	4,5	ILEVO, LumiGEN, Lumisena	--	--	--	--	--	--
Dairyland	DSR-0920E	0.9	E3	4,5	ILEVO, LumiGEN, Lumisena	--	--	--	--	--	--
Dairyland	DSR-1032E	1.0	E3	3,4,5	ILEVO, LumiGEN, Lumisena	--	--	--	--	--	--
Dairyland	DSR-1318E	1.3	E3	3,4	ILEVO, LumiGEN, Lumisena	--	--	--	--	--	--

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¹ Herbicide Trait : CN = conventional, GT or RR2Y = glyphosate, RR2X = glyphosate/dicamba, E3 = glufosinate/glyphosate/2,4-D, GT27 = glyphosate/isoxaflutole, 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=Clea, r 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. 2020 Characteristics of Soybean Varieties (3 of 9)

Brand (Entrant)	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-1673E	1.6	E3	3,4	ILEVO, LumiGEN, Lumisena	--	--	--	--	--	--
Dairyland	DSR-2030E	2.0	E3	3	CruiserMaxx, Maxim Quattro, ILEVO	--	--	--	--	--	--
Dairyland	E20-101E	2.0	E3	2,3	ILEVO, LumiGEN, Lumisena	--	--	--	--	--	--
Dairyland	DSR-2112E	2.1	E3	2,3	ILEVO, LumiGEN, Lumisena	--	--	--	--	--	--
Dairyland	DSR-2259E	2.2	E3	2,3	ILEVO, LumiGEN, Lumisena	--	--	--	--	--	--
Dairyland	DSR-2424E	2.4	E3	2,3	CruiserMaxx, Maxim Quattro, ILEVO	--	--	--	--	--	--
Dairyland	E24-201E	2.4	E3	2	CruiserMaxx, Maxim Quattro, ILEVO	--	--	--	--	--	--
Dairyland	DSR-2640E	2.6	E3	2	CruiserMaxx, Maxim Quattro, ILEVO	--	--	--	--	--	--
Dairyland	DSR-2999E	2.9	E3	2	CruiserMaxx, Maxim Quattro, ILEVO	--	--	--	--	--	--
DONMARIO (Burrus)	DM 2544E	2.5	E3	2	PowerShield	PI 88788	Rps 1-k	P	G	T	BF
DONMARIO (Burrus)	DM 2868E	2.8	E3	2	PowerShield	PI 88788	Rps 1-k	W	G	T	BR
DONMARIO (GDM)	DM 2868E	2.8	E3	2	Cruiser Maxx Vibrance, Saltro	PI 88788	Rps 1-k	W	G	T	BR
DONMARIO (GDM)	DM 28J9X	2.8	RR2X	2	Cruiser Maxx Vibrance, Saltro	PI 88788	Rps 1-c	P	G	BR	IB
Dyna-Gro	S14EN90	1.4	E3	4	Equity VIP, Saltro	PI 88788	Rps 1-c	P	G	T	IB
Dyna-Gro	S17EN80	1.7	E3	3,4	Equity VIP, Saltro	PI 88788	--	W	LTW	T	BL
Dyna-Gro	S17XT29	1.7	RR2X	3,4	Equity VIP, Saltro	PI 88788	Rps 1-c	P	LTW	BR	BR
Dyna-Gro	S19EN21	1.9	E3	3	Equity VIP, Saltro	PI 88788	--	P	G	BR	IB
Dyna-Gro	S21EN81	2.1	E3	2	Equity VIP, Saltro	PI 88788	--	P	G	BR	IB
Dyna-Gro	S21XT49	2.1	RR2X	2,3	Equity VIP, Saltro	PI 88788	Rps 1-a, 3-a	P	G	BR	BF
Dyna-Gro	S24EN50	2.4	E3	2	Equity VIP, Saltro	PI 88788	--	W	LTW	T	BL
Dyna-Gro	S27EN89	2.7	E3	2	Equity VIP, Saltro	PI 88788	Rps 1-k	W	G	T	BF
Dyna-Gro	S28XT58	2.8	RR2X	2	Equity VIP, Saltro	PI 88788	Rps 1-c	P	G	BR	IB
Federal Hybrids	F0990N R2X	0.9	RR2X	4	Maximum ArmourGuard	PI 88788	Rps 3-a	P	LTW	T	BR
Federal Hybrids	F1210N R2X	1.2	RR2X	4	Maximum ArmourGuard	PI 88788	Rps 3-a	P	LTW	BR	BL

All characteristic information is provided by the originator.

¹ Herbicide Trait : CN = conventional, GT or RR2Y = glyphosate, RR2X = glyphosate/dicamba, E3 = glufosinate/glyphosate/2,4-D, GT27 = glyphosate/isoxaflutole, 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=Clea, r 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. 2020 Characteristics of Soybean Varieties (4 of 9)

Brand (Entrant)	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	F1500N R2X	1.5	RR2X	4	Maximum ArmourGuard	PI 88788	Rps 1-c	P	G	BR	IB
Federal Hybrids	F1690N R2X	1.6	RR2X	4	Maximum ArmourGuard	PI 88788	Rps 1-c	P	LTW	BR	BR
FS HiSOY	HS 14X90	1.4	RR2X	4	Acceleron, Saltro	PI 88788	Rps 1-c	P	G	BR	IB
FS HiSOY	HS 16X80	1.6	RR2X	3,4	Acceleron, Saltro	PI 88788	Rps 1-c	P	LTW	BR	BR
FS HiSOY	HS 18X70	1.8	RR2X	3,4	Acceleron, Saltro	PI 88788	Rps 1-a, 3-a	P	G	BR	BF
FS HiSOY	HS 19X90	1.9	RR2X	2,3	Acceleron, Saltro	PI 88788	--	P	G	T	IB
FS HiSOY	HS 21X90	2.1	RR2X	2,3	Acceleron, Saltro	PI 88788	Rps 1-c	P	LTW	T	BL
FS HiSOY	HS 22X00	2.2	RR2X	2,3	Acceleron, Saltro	PI 88788	Rps 1-k	P	G	BR	IB
FS HiSOY	HS 23E00	2.3	E3	2,3	Acceleron, Saltro	PI 88788	Rps 1-k	P	G	T	BF
FS HiSOY	HS 24X80	2.4	RR2X	2,3	Acceleron, Saltro	PI 88788	Rps 1-c	P	G	BR	IB
FS HiSOY	HS 25E00	2.5	E3	2	Acceleron, Saltro	PI 88788	--	P	G	T	IB
FS HiSOY	HS 28E90	2.8	E3	2	Acceleron, Saltro	PI 88788	Rps 1-k	P	G	T	IB
FS HiSOY	HS 28X70	2.8	RR2X	2	Acceleron, Saltro	PI 88788	Rps 1-c	P	G	BR	IB
Genesis	G0690GL	0.6	LLGT27	5	ApronMaxx, ILEVO	--	Rps 1-k	P	G	BR	IB
Genesis	G1450E	1.4	E3	4	ApronMaxx, ILEVO	PI 88788	Rps 1-c	P	G	BR	IB
Genesis	G1650E	1.6	E3	4	ApronMaxx, ILEVO	PI 88788	Rps 1-k	P	G	BR	IB
Genesis	G1680GL	1.6	LLGT27	4	ApronMaxx, ILEVO	PI 88788	Rps 1-k	P	LTW	T	BR
Genesis	G2150E	2.1	E3	3	ApronMaxx, ILEVO	PI 88788	Rps 1-k	P	G	T	BF
Genesis	G2190GL	2.1	LLGT27	3	ApronMaxx, ILEVO	PI 88788	Rps 1-k	P	G	BR	IB
Genesis	G2350E	2.3	E3	3	ApronMaxx, ILEVO	PI 88788	--	P	G	BR	IB
Genesis	G2550E	2.5	E3	2	ApronMaxx, ILEVO	PI 88788	Rps 1-k	W	G	T	BF
Genesis	G2840E	2.7	E3	2	ApronMaxx, ILEVO	PI 88788	Rps 1-k	W	G	T	BF
Golden Harvest	GH1414X Brand	1.4	RR2X	3,4	Cruiser Maxx Vibrance, Saltro	PI 88788	Rps 1-c	P	LTW	BR	BR
Golden Harvest	GH1638X Brand	1.6	RR2X	3	Cruiser Maxx Vibrance, Saltro	PI 88788	Rps 3-a, 1-k	P	LTW	T	BL

All characteristic information is provided by the originator.

¹ Herbicide Trait : CN = conventional, GT or RR2Y = glyphosate, RR2X = glyphosate/dicamba, E3 = glufosinate/glyphosate/2,4-D, GT27 = glyphosate/isoxaflutole, 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=Clea, r 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. 2020 Characteristics of Soybean Varieties (5 of 9)

Brand (Entrant)	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	GH2011E3 Brand	2.0	E3	3	Cruiser Maxx Vibrance, Saltro	PI 88788	Rps 3-a, 1-k	P	G	BR	BF
Golden Harvest	GH2041X Brand	2.0	RR2X	3	Cruiser Maxx Vibrance, Saltro	PI 88788	Rps 1-c	W	LTW	BR	BL
Golden Harvest	GH2329X Brand	2.3	RR2X	3	Cruiser Maxx Vibrance, Saltro	PI 89772	Rps 1-c	W	LTW	BR	BL
Golden Harvest	GH2788X Brand	2.7	RR2X	2	Cruiser Maxx Vibrance, Saltro	PI 88788	Rps 1-c	P	G	BR	IB
Golden Harvest	GH2818E3 Brand	2.8	E3	2	Cruiser Maxx Vibrance, Saltro	PI 88788	Rps 1-k	W	G	T	BF
Impact	08E127N	0.8	E3	4	YP Pro, Preside CL, Quickroots	--	--	--	--	--	--
Impact	13LGT132N	1.3	LLGT27	4	YP Pro, Preside CL, Quickroots	--	--	--	--	--	--
Impact	14E052N	1.4	E3	4	YP Pro, Preside CL, Quickroots	--	--	--	--	--	--
Impact	19E152N	1.9	E3	3	YP Pro, Preside CL, Quickroots	--	--	--	--	--	--
Impact	19E173N	1.9	E3	3	YP Pro, Preside CL, Quickroots	--	--	--	--	--	--
Impact	21LGT157N	2.1	LLGT27	2	YP Pro, Preside CL, Quickroots	--	--	--	--	--	--
Impact	23E927N	2.3	E3	2	YP Pro, Preside CL, Quickroots	--	--	--	--	--	--
Impact	24LGT167N	2.4	LLGT27	2	YP Pro, Preside CL, Quickroots	--	--	--	--	--	--
Impact	25E152N	2.5	E3	2	YP Pro, Preside CL, Quickroots	--	--	--	--	--	--
Impact	27E962N	2.7	E3	2	YP Pro, Preside CL, Quickroots	--	--	--	--	--	--
Jung	1071R2X	0.7	RR2X	5	Acceleron F/I	PI 88788	Seg. Rps 1-c, 3-a	P	G	BR	BL
Jung	1072R2X	0.7	RR2X	5	Acceleron F/I	PI 88788	Rps 1-c	P	LTW	BR	BL
Jung	1103R2X	1	RR2X	5	Acceleron F/I, ILEVO	PI 88788	Rps 3-a	P	TW	BR	BR
Jung	1136R2X	1.3	RR2X	4	Acceleron F/I	PI 88788	Rps 3-a	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	1193R2X	1.9	RR2X	4	Acceleron F/I, ILEVO	PI 88788	Rps 1-c	P	G	BR	IB
Jung	1203R2X	2	RR2X	3	Acceleron F/I, ILEVO	PI 88788	Rps 1-a, 3-a	P	G	BR	IB
Jung	1226R2X	2.2	RR2X	3	Acceleron F/I, ILEVO	PI 88788	Rps 1-c	P	G	BR	IB
Jung	1243R2X	2.4	RR2X	2,3	Acceleron F/I, ILEVO	PI 88788	Rps 1-c	P	G	BR	IB
Jung	1262R2X	2.6	RR2X	2	Acceleron F/I, ILEVO	PI 88788	Rps 1-c	P	G	BR	IB

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

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TABLE 10. CONTINUED. 2020 Characteristics of Soybean Varieties (6 of 9)

Brand (Entrant)	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
Jung	1284R2X	2.8	RR2X	2	Acceleron F/I, ILEVO	PI 88788	Rps 1-c	P	G	BR	IB
Legacy Seeds	LS082-20	0.8	E3	5	L-Coat Total	PI 88788	--	W	G	T	BF
Legacy Seeds	LS-0930	0.9	RR2X	5	L-Coat Total	PI 88788	--	P	LTW	BR	BR
Legacy Seeds	LS-1039	1.0	RR2Y	5	L-Coat Total	Peking	Rps 3-a, 1-k	P	G	BR	BF
Legacy Seeds	LS111-20	1.1	LLGT27	5	L-Coat Total	PI 88788	Rps 1-c	P	LTW	BR	BL
Legacy Seeds	LS123-20	1.2	RR2X	4,5	L-Coat Total	PI 88788	Rps 3-a	P	LTW	BR	BL
Legacy Seeds	LS131-20	1.3	LLGT27	4	L-Coat Total	PI 88788	Rps 1-k	P	LTW	T	BR
Legacy Seeds	LS-1320	1.3	E3	4	L-Coat Total	PI 88788	Rps 1-c	P	G	T	IB
Legacy Seeds	LS141-20	1.4	LLGT27	3,4	L-Coat Total	PI 88788	Rps 1-k	P	G	T	IB
Legacy Seeds	LS142-20	1.4	E3	3,4	Tripidity, Headsup	PI 88788	Rps 1-k	P	G	BR	IB
Legacy Seeds	LS-1430	1.4	RR2X	4	L-Coat Total	PI 88788	Rps 1-c	P	G	BR	IB
Legacy Seeds	LS-1510	1.5	LLGT27	3,4	L-Coat Total	PI 88788	Rps 1-k	P	LTW	T	BR
Legacy Seeds	LS-1630	1.6	RR2X	3,4	L-Coat Total	PI 88788	Rps 1-k	P	G	T	IB
Legacy Seeds	LS-1838	1.8	RR2X	3,4	L-Coat Total	PI 88788	Rps 1-a, 3-a	P	G	BR	BF
Legacy Seeds	LS212-20	2.1	E3	2,3	None	PI 88788	Rps 1-k	P	G	BR	IB
Legacy Seeds	LS-2139	2.1	RR2X	2,3	L-Coat Total	PI 88788	Rps 1-a, 3-a	P	G	BR	BF
Legacy Seeds	LS252-20	2.5	E3	2	L-Coat Total	PI 88788	--	P	G	BR	IB
Legacy Seeds	LS254-20C	2.5	CN	6	L-Coat Total	--	--	P	--	--	CL
Legacy Seeds	LS264-20C	2.6	CN	6	L-Coat Total	PI 88788	--	P	--	--	BF
Legend Seeds	LS 22C165N	2.2	CN	6	None	--	--	--	--	--	--
LG Seeds	C1000RX	1.0	RR2X	5	AgriShield Max	PI 88788	Rps 3-a	P	LTW	BR	BL
LG Seeds	LGS1550RX	1.5	RR2X	5	AgriShield Max	PI 88788	Rps 1-c	P	LTW	BR	BL
LG Seeds	LGS1635RX	1.6	RR2X	4	AgriShield Max	PI 88788	Rps 1-c	P	LTW	BR	BR
LG Seeds	C1838RX	1.8	RR2X	3,4	AgriShield Max	PI 88788	Rps 1-a, 3-a	P	LTW	BR	BF
LG Seeds	LGS2007RX	2.0	RR2X	2	AgriShield Max	PI 88788	Rps 1-a, 3-a	P	G	BR	BF

All characteristic information is provided by the originator.

¹ Herbicide Trait : CN = conventional, GT or RR2Y = glyphosate, RR2X = glyphosate/dicamba, E3 = glufosinate/glyphosate/2,4-D, GT27 = glyphosate/isoxaflutole, 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 = Clea, r 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. 2020 Characteristics of Soybean Varieties (7 of 9)

Brand (Entrant)	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
LG Seeds	LG52444RX	2.4	RR2X	2,3	AgriShield Max	PI 88788	Rps 1-c	P	G	BR	IB
LG Seeds	C2888RX	2.8	RR2X	2	AgriShield Max	PI 88788	Rps 1-c	P	G	BR	BR
Mustang	18X128	1.8	RR2X	3	YP Pro, Preside CL, Quickroots	PI 88788	Rps 1-a, 3-a	P	G	BR	BF
NK	S02-F9X Brand	0.2	RR2X	5	CruiserMaxx, Saltro, Vibrance	S	Rps 1-c	P	G	T	BF
NK	S04-Q7X Brand	0.4	RR2X	4,5	CruiserMaxx, Saltro, Vibrance	PI 88788	Rps 1-c	P	LTW	T	BL
NK	S05-N5X Brand	0.5	RR2X	5	CruiserMaxx, Saltro, Vibrance	S	Rps 1-c, 3-a	P	LTW	T	BR
NK	S07-Q4X Brand	0.7	RR2X	5	CruiserMaxx, Saltro, Vibrance	PI 88788	Rps 1-c	P	LTW	T	BL
NK	S09-D4X Brand	0.9	RR2X	4,5	CruiserMaxx, Saltro, Vibrance	PI 88788	Rps 1-c, 3-a	P	LTW	T	BR
NK	S12-T2X Brand	1.2	RR2X	4	CruiserMaxx, Saltro, Vibrance	PI 88788	Rps 3-a	P	LTW	T	BL
NK	S14-U9X Brand	1.4	RR2X	3,4	CruiserMaxx, Saltro, Vibrance	PI 88788	Rps 1-c	P	LTW	BR	BR
NK	S16-K2X Brand	1.6	RR2X	2,3,4	CruiserMaxx, Saltro, Vibrance	PI 88788	Rps 1-c, 3-a	P	LTW	T	BL
NK	S18-H3X Brand	1.8	RR2X	4	CruiserMaxx, Saltro, Vibrance	PI 88788	S	P	LTW	BR	BL
NK	S20-J5X Brand	2.0	RR2X	3	CruiserMaxx, Saltro, Vibrance	PI 88788	Rps 1-c	W	LTW	BR	BL
NK	S21-W8X Brand	2.1	RR2X	2,3	CruiserMaxx, Saltro, Vibrance	PI 88788	Rps 1-c	W	LTW	BR	BL
NK	S23-G5X Brand	2.3	RR2X	2,3	CruiserMaxx, Saltro, Vibrance	PI 89772	Rps 1-c	W	LTW	BR	BL
NK	S25-V8X Brand	2.5	RR2X	2	CruiserMaxx, Saltro, Vibrance	PI 88788	Rps 1-c	W	LTW	BR	BL
NK	S27-M8X Brand	2.7	RR2X	2	CruiserMaxx, Saltro, Vibrance	PI 88788	Rps 1-c	P	G	BR	IB
O'Brien	O'SOY1620GT27LL	1.6	LLGT27	3,4	Intego Suite, N-Force	--	--	--	--	--	--
O'Brien	O'SOY2120GT27LL	2.1	LLGT27	2,3	Intego Suite, N-Force	--	--	--	--	--	--
O'Brien	O'SOY2520GT27LL	2.5	LLGT27	2	Intego Suite, N-Force	PI 88788	--	P	LTW	BR	BL
P3	2023E	2.2	E3	2	Profit Guard Plus	PI 88788	--	W	LTW	T	BL
P3	1924E	2.4	E3	2	Profit Guard Plus	PI 88788	Rps 1-k	P	G	T	BF
P3	2126E	2.6	E3	2	Profit Guard Plus	PI 88788	Rps 1-k	P	LTW	BR	BL
P3	1928E	2.8	E3	2	Profit Guard Plus	PI 88788	Rps 1-k	W	G	T	BF

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¹ Herbicide Trait : CN = conventional, GT or RR2Y = glyphosate, RR2X = glyphosate/dicamba, E3 = glufosinate/glyphosate/2,4-D, GT27 = glyphosate/isoxaflutole, 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=Clea, r 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. 2020 Characteristics of Soybean Varieties (8 of 9)

Brand (Entrant)	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
ProHarvest	0985CR2Y	0.9	RR2Y	5	CruiserMaxx, Vibrance	Peking	Rps 3-a, 1-k	P	G	BR	BF
ProHarvest	1638X	1.6	RR2X	4	CruiserMaxx, Vibrance	PI 88788	Rps 1-c, 1-k	P	G	BR	IB
ProHarvest	2084CR2Y	2.0	RR2Y	3,4	CruiserMaxx, Vibrance	PI 88788	Rps 1-c	P	LTW	BR	BR
Public	MN1410	1.4	CN	6,7	Vibrance	--	--	W	G	BR	BF
Renk	RS149NX	1.4	RR2X	4	ApronMaxx, ILEVO	PI 88788	Rps 1-c	P	LTW	BR	BL
Renk	RS150NX	1.5	RR2X	4	ApronMaxx, ILEVO	PI 88788	Rps 1-c	P	G	BR	IB
Renk	RS248NX	2.4	RR2X	3	ApronMaxx, ILEVO	PI 88788	--	P	LTW	T	BL
Renk	RS250NX	2.5	RR2X	3	ApronMaxx, ILEVO	PI 88788	Rps 1-k	P	G	BR	IB
Renk	RS280NX	2.8	RR2X	2	ApronMaxx, ILEVO	PI 88788	Rps 1-k	P	G	T	IB
Renk	RS288NX	2.8	RR2X	2	ApronMaxx, ILEVO	PI 88788	Rps 1-c	P	G	BR	IB
SB&B	SB90	1.1	CN	6,7	CruiserMaxx	--	--	P	G	T	Y
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	1.3	CN	6,7	CruiserMaxx	--	--	P	G	T	Y
Sevita	Skyline	1.0	CN	7	VibranceMaxx	PI 88788	--	P	G	--	Y
Sevita	Candor	1.9	CN	6,7	VibranceMaxx	--	--	P	G	--	Y
Stine	09EA02	0.9	E3	5	EclipseUS Trio IM, N-Force, N-Hibit	PI 88788	--	P	G	--	IB
Stine	12EB32	1.2	E3	4	EclipseUS Trio IM, N-Force, N-Hibit	PI 88788	Rps 1-c	P	G	--	IB
Stine	13EA12	1.3	E3	4	EclipseUS Trio IM, N-Force, N-Hibit	PI 88788	--	P	G	--	IB
Stine	17EB02	1.7	E3	3,4	EclipseUS Trio IM, N-Force, N-Hibit	PI 88788	--	W	LTW	--	BL
Stine	21EA32	2.1	E3	3	EclipseUS Trio IM, N-Force, N-Hibit	PI 88788	Rps 1-k	P	G	--	BF
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	2541GTLL	2.5	LLGT27	2	Intego Suite, N-Force	PI 88788	Rps 1-k	P	LTW	BR	BL
Tracy	2552E	2.5	E3	2	Intego Suite, N-Force	PI 88788	--	P	G	BR	IB

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¹ Herbicide Trait : CN = conventional, GT or RR2Y = glyphosate, RR2X = glyphosate/dicamba, E3 = glufosinate/glyphosate/2,4-D, GT27 = glyphosate/isoxaflutole, LLGT27 = glufosinate/glyphosate/isoxaflutole

² Source of SCN Resistance; S = Susceptible.

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TABLE 10. CONTINUED. 2020 Characteristics of Soybean Varieties (9 of 9)

Brand (Entrant)	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	1218N	1.2	CN	7	None	PI 88788	Rps 3-a	P	LTW	BR	BL
Viking	0.1202N	1.2	CN	7	None	PI 88788	Rps 1-k	W	TW	BR	BR
Viking	0.1518N	1.5	CN	7	None	PI 88788	--	P	LTW	BR	BR
Viking	1940KN	1.9	CN	6	None	Peking	--	P	G	BR	Y
Viking	0.E1993N	1.9	CN	6	None	PI 88788	--	P	G	BR	IB
Viking	2018N	2.0	CN	6	None	PI 88788	Rps 3-a	P	LTW	BR	BL
Viking	2121N	2.1	CN	6	None	PI 88788	--	P	G	BR	IB
Viking	0.2155N	2.1	CN	6	None	PI 88788	Rps 1-a	M	LTW	T	BR
Viking	0.2244AT	2.2	CN	6	None	--	--	P	TW	T	BL/BR
Viking	2340KN	2.3	CN	6	None	Peking	Rps 1-k	P	G	T	BF
Viking	0.2418N	2.4	CN	6	None	PI 88788	Rps 1-c	P	LTW	BR	BL
Viking	0.2188AT12N	2.5	CN	6	None	PI 88788	--	W	G	T	Y
Viking	0.2702	2.7	CN	6	None	--	--	W	LTW	BR	BR

see previous page for table footnotes



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