

WISCONSIN Soybean Variety Performance Trials

2018

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2018 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.

Growing conditions

Wisconsin soybean growers experienced above average growing conditions across the state in 2018. Above normal precipitation in May coupled with cool temperatures delayed soybean planting. This was

followed by normal to above normal precipitation patterns across most of the state through mid-July. Above normal precipitation continued across the state for most of July, August, and September. Above average environmental growing conditions for most of 2018 led to a projected statewide average soybean yield of 49 bu/A, up 2.0 from 2017. Production is expected to be at 107 million bushels, which is fractionally above the previous record crop of 2016.

Source: November 08, 2018 NASS report, www.nass.usda.gov

Growers experienced above average temperatures in June, July and August across WI. From May 1st through September 1st, the crop had accumulated approximately 175 more GDU's (base 50° F) than the 30-year normal in southern WI, and 100 more GDU's in central and northern WI. Statewide crop conditions were rated at about 70% good to excellent for most of the season.

Above average temperatures helped mature the soybean crop through September and into October. As of October 28th, 61% of the WI soybean crop had been harvested, which is about 16% less than this time last year and the 5-year average. Frequent rainfall events in October delayed harvest throughout the month. The Arlington, Platteville, and Seymour sites had low Sudden Death Syndrome (SDS) incidence.

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.

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 fungus 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 applied to seed can provide a window of protection to

tolerant varieties during emergence. Variety tolerance 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 2018. White mold in southern Wisconsin was sporadic and likely did not cause much yield reduction. 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-ii/university-partners/university-wisconsin-madison>

Brown Stem Rot (caused by *Phialophora gregata*)

Brown stem rot (BSR) is a major disease of soybeans in Wisconsin. In 2018, low levels of BSR was detected in some 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 plant that are unthrifty, stunted, or yellowing prematurely. Select resistant varieties if BSR has been a problem in the field.

Sudden Death Syndrome

(caused by *Fusarium virguliforme*)

Sudden death syndrome (SDS) incidence was very prevalent in 2018, 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 to confirm SDS. SDS resistance information is available on individual soybean varieties from locations where this disease was noted.

Soybean viruses and insects

Soybean aphids were localized again in 2018; 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 2019. 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. Symptoms of *Alfalfa mosaic virus* (AMV) and *Tobacco streak virus* (TSV) were also evident in numerous fields. Symptoms of *Soybean vein necrosis virus* (SVNV) were found, but most of the incidence was in southwest Wisconsin with extremely low incidence noted in central Wisconsin.

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



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

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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2018 Soybean Variety Trial Sites



○ **Northern Region**
Marshfield
Spooner

▲ **North Central Region**
Chippewa Falls
Marshfield
Seymour

● **Central Region**
Fond du Lac
Galesville
Hancock

△ **Southern Region**
Arlington
East Troy
Platteville

TABLE 1. General Information on the 2018 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	2018	2017	2017-18
Arlington: Glyphosate Tolerant	Mike Bertram	15	Silt Loam	6.5	3.5	49	169	Authority First, Medal II	Roundup PowerMAX	30-Apr	16-Oct	84	70	77
Arlington: Conventional & Traited Herbicide	Mike Bertram	15	Silt Loam	6.5	3.5	49	169	Authority First, Medal II	--	30-Apr	16-Oct	79	74	77
Chippewa Falls: Glyphosate Tolerant	Rooney Farms, Jerry Clark	15	Sandy Loam	6.5	1.5	56	166	Authority First, Dual II Magnum	--	8-May	18-Oct	79	67	73
Chippewa Falls: Conventional & Traited Herbicide	Rooney Farms, Jerry Clark	15	Sandy Loam	6.5	1.5	56	166	Authority First, Dual II Magnum	--	8-May	18-Oct	71	63	67
East Troy: Glyphosate Tolerant	Matt Scurek	15	Silt Loam	5.8	5.1	75	196	Authority First, Dual II Magnum	Roundup PowerMAX, Select Max	7-May	17-Oct	87	--	--
Fond du Lac: Glyphosate Tolerant	Ed Montsma	15	Silt Loam	6.5	2.9	40	165	Authority First, Dual II Magnum	Roundup PowerMAX, Select Max, Warrant	24-May	24-Oct	71	72	72
Galesville: Glyphosate Tolerant	Ken Congdon	15	Silt Loam	5.9	3.4	41	228	Authority First, Dual II Magnum	Roundup PowerMAX, Select Max	1-May	22-Oct	75	66	71
Hancock: Glyphosate Tolerant	Paul Sytsma	15	Sand	5.4	0.9	61	59	Dual II Magnum	Roundup PowerMAX (2), Select Max, Warrant	3-May	18-Oct	77	56	67
Marshfield: Glyphosate Tolerant (North Central)	Jason Cavadini	15	Silt Loam	6.6	3.4	40	211	First Rate, Parallel	Roundup PowerMAX, Warrant	8-May	23-Oct	62	76	69
Marshfield: Glyphosate Tolerant (North)	Jason Cavadini	15	Silt Loam	6.6	3.4	40	211	First Rate, Parallel	Roundup PowerMAX, Warrant	8-May	23-Oct	54	71	63
Platteville: Glyphosate Tolerant	Schweigert Family Farms	15	Silt Loam	6.5	3.4	32	132	Authority XL, Gramoxone, Sencor	Roundup PowerMAX	1-May	22-Oct	78	--	--
Platteville: Conventional & Traited Herbicide	Schweigert Family Farms	15	Silt Loam	6.5	3.4	32	132	Authority Max, Gramoxone, Sencor	Flexstar, Select Max	1-May	22-Oct	84	--	--
Seymour: Glyphosate Tolerant	Mike Maass, Kevin Jarek	15	Silt Loam	6.9	2.0	49	178	Authority First, Dual II Magnum	Roundup PowerMAX, Select Max, Warrant	18-May	23-Oct	62	74	68
Spooner: Glyphosate Tolerant (Dry Land)	Phil Holman	15	Silt Loam	6.7	2.2	28	128	--	Roundup PowerMAX, Dual II Magnum, Select Max	24-May	18-Oct	50	54	52
Spooner: Glyphosate Tolerant (Irrigated)	Phil Holman	15	Sandy Loam	6.6	1.3	53	101	--	Roundup PowerMAX, Dual II Magnum, Select Max	21-May	18-Oct	62	57	60

TABLE 2. 2018 Southern Region Glyphosate Tolerant Soybean Trial (1 of 4)

Brand	Entry	Maturity Group	Maturity Date ¹	2018 3-Test Average		2018 Yields			2018 Composition ¹		2017 (Arlington) ²			2017 Composition ¹	
				Yield (bu/A)	Lodging (1-5)	Arlington (bu/A)	East Troy (bu/A)	Platteville (bu/A)	Protein (%)	Oil (%)	Yield (bu/A)	WM ³ (%)	Lodging (1-5)	Protein (%)	Oil (%)
AgriGold	G2105RX	2.1	22-Sep	*91	2.3	84	*94	*94	35.3	20.0	67	50	1.0	36.1	18.1
AgriGold	G2250RX	2.2	20-Sep	84	1.7	78	85	*88	34.9	20.8	76	24	1.0	34.9	18.4
AgriGold	G2405RX	2.4	26-Sep	*93	1.5	*92	*95	*91	35.7	19.8	69	35	1.0	35.8	18.2
AgriGold	G2900RX	2.9	30-Sep	86	1.3	86	91	80	36.1	18.8	63	36	1.0	35.8	16.7
Asgrow	AG23X9	2.3	18-Sep	86	2.1	86	92	80	34.9	19.2	--	--	--	--	--
Asgrow	AG24X9	2.4	22-Sep	84	1.3	83	88	81	35.3	19.5	--	--	--	--	--
Asgrow	AG27X9	2.7	29-Sep	86	1.3	85	88	*83	35.0	19.2	--	--	--	--	--
Cornelius	9229RR2X	2.2	25-Sep	80	1.5	88	75	76	34.2	21.0	--	--	--	--	--
Cornelius	CB22R88	2.2	18-Sep	83	1.1	85	80	*85	34.6	20.1	*83	4	1.0	34.7	18.7
Cornelius	CB23X00	2.3	25-Sep	*89	1.3	88	92	*87	35.0	20.1	--	--	--	--	--
Cornelius	CB24R82	2.4	20-Sep	84	1.3	87	85	81	34.7	20.6	74	13	1.0	35.4	18.5
Cornelius	CB24X64	2.4	26-Sep	*94	1.3	*92	*99	*92	36.2	19.7	65	31	1.0	35.3	18.2
Cornelius	9258RR2X	2.5	29-Sep	84	1.5	*89	86	77	35.0	20.4	68	30	1.0	35.8	17.6
Cornelius	CB26R30	2.6	20-Sep	86	1.3	82	89	*86	35.6	19.2	--	--	--	--	--
Cornelius	CB26X67	2.6	26-Sep	*88	2.0	*89	*99	76	33.6	20.6	--	--	--	--	--
Cornelius	CB27X81	2.7	29-Sep	*88	1.3	*89	*93	82	36.1	19.0	60	36	1.0	36.1	16.9
Cornelius	CB28R58	2.8	2-Oct	*88	1.7	88	88	*88	35.7	19.9	--	--	--	--	--
Cornelius	CB29X90	2.9	3-Oct	*88	1.3	*94	90	81	36.8	18.4	--	--	--	--	--
Dairyland	DSR-1526/R2Y	1.5	15-Sep	76	1.3	78	78	72	34.8	20.8	74	19	1.0	35.1	19.1
Dairyland	DSR-1721/R2Y	1.7	12-Sep	72	2.0	74	83	55	35.8	20.3	*90	5	1.0	35.3	18.1
Dairyland	DSR-1870/R2Y	1.8	12-Sep	78	1.6	80	77	75	35.2	20.5	*88	13	1.0	35.8	18.4
Dairyland	DSR-1950/R2Y	1.9	16-Sep	83	1.1	82	84	*83	34.6	20.0	77	17	1.0	34.5	18.3
Dairyland	DSR-2073R	1.9	14-Sep	82	1.3	82	83	82	34.5	20.2	75	16	1.0	35.5	17.8
Dairyland	DSR-2110/R2Y	2.1	18-Sep	79	1.5	82	82	71	35.5	19.0	*83	7	1.0	35.8	17.6
Dairyland	DSR-2214X	2.3	22-Sep	85	1.3	86	86	*84	35.5	19.7	--	--	--	--	--
Dairyland	DSR-2330/R2Y	2.3	19-Sep	83	1.8	80	*93	77	35.3	20.3	*82	3	1.0	34.5	19.0

TABLE 2. CONTINUED. 2018 Southern Region Glyphosate Tolerant Soybean Trial (2 of 4)

Brand	Entry	Maturity Group	Maturity Date ¹	2018 3-Test Average		2018 Yields			2018 Composition ¹		2017 (Arlington) ²			2017 Composition ¹	
				Yield (bu/A)	Lodging (1-5)	Arlington (bu/A)	East Troy (bu/A)	Platteville (bu/A)	Protein (%)	Oil (%)	Yield (bu/A)	WM ³ (%)	Lodging (1-5)	Protein (%)	Oil (%)
Dairyland	DSR-2539R	2.5	26-Sep	85	1.0	*89	84	81	35.5	19.3	--	--	--	--	--
Dairyland	DSR-2616/R2Y	2.6	29-Sep	85	1.2	78	*96	81	35.9	19.1	60	56	1.0	36.2	17.3
Dairyland	DSR-2909/R2Y	2.9	25-Sep	81	1.8	76	81	*84	35.8	19.6	74	18	1.0	35.6	17.9
Dyna-Gro	S21XT49	2.1	18-Sep	84	1.3	87	83	82	36.0	19.7	--	--	--	--	--
Dyna-Gro	S23XT78	2.3	22-Sep	85	1.8	82	90	*85	35.8	19.6	*84	13	1.0	35.2	17.5
Dyna-Gro	SX18723XT	2.3	24-Sep	74	1.4	75	72	76	34.2	20.6	--	--	--	--	--
Dyna-Gro	S24RY87	2.4	17-Sep	83	1.5	81	90	80	35.1	20.3	*83	8	1.0	34.5	19.1
Dyna-Gro	S28XT58	2.8	2-Oct	*88	1.3	82	*96	*87	36.1	18.7	70	26	1.0	35.7	16.8
FS HiSOY	HS 16X80	1.6	16-Sep	75	1.0	82	70	73	36.3	19.6	--	--	--	--	--
FS HiSOY	HS 18X70	1.8	16-Sep	82	1.2	83	78	*85	36.2	19.7	70	39	1.0	36.5	18.1
FS HiSOY	HS 21X70	2.1	18-Sep	83	1.3	84	82	*84	36.6	19.3	60	38	1.0	37.3	17.0
FS HiSOY	HS 22X80	2.2	20-Sep	85	2.3	84	86	*84	33.4	20.1	--	--	--	--	--
FS HiSOY	HS 23X70	2.3	27-Sep	85	1.2	85	86	*83	34.9	20.1	76	17	1.0	34.8	18.3
FS HiSOY	HS 24X80	2.4	22-Sep	*88	1.2	*96	91	78	34.9	19.4	--	--	--	--	--
FS HiSOY	HS 25X70	2.5	26-Sep	81	1.4	81	87	75	34.8	20.0	68	15	1.0	35.5	17.7
FS HiSOY	HS 27X80	2.7	2-Oct	83	1.3	84	89	76	34.9	20.7	--	--	--	--	--
FS HiSOY	HS 28X70	2.8	1-Oct	*91	1.2	*95	*95	*83	36.0	18.6	67	31	1.0	35.8	16.8
Golden Harvest	GH1915X Brand	1.9	16-Sep	75	1.2	80	84	60	34.0	20.8	--	--	--	--	--
Golden Harvest	GH2041X Brand	2.0	14-Sep	82	1.3	84	83	78	35.3	20.3	--	--	--	--	--
Golden Harvest	GH2230X Brand	2.2	13-Sep	83	1.3	82	86	81	34.8	20.4	*85	3	1.0	35.2	18.4
Golden Harvest	GH2537X Brand	2.5	22-Sep	78	1.3	81	84	70	35.4	19.8	--	--	--	--	--
Golden Harvest	GH2788X Brand	2.7	26-Sep	81	1.3	80	88	75	35.0	19.9	--	--	--	--	--
Legacy Seeds	LS-2139N RR2X	2.1	15-Sep	79	1.2	85	85	69	36.2	19.4	--	--	--	--	--
Legacy Seeds	LS-2339N RR2X	2.3	22-Sep	75	1.3	79	79	67	34.1	20.9	--	--	--	--	--
Legend Seeds	LS 20R524N	2.0	15-Sep	84	1.7	82	88	*84	35.3	20.1	*82	22	1.0	36.0	18.3
Legend Seeds	LS 23X920N	2.3	22-Sep	75	1.8	75	76	74	34.5	20.6	--	--	--	--	--

TABLE 2. CONTINUED. 2018 Southern Region Glyphosate Tolerant Soybean Trial (3 of 4)

Brand	Entry	Maturity Group	Maturity Date ¹	2018 3-Test Average		2018 Yields			2018 Composition ¹		2017 (Arlington) ²			2017 Composition ¹	
				Yield (bu/A)	Lodging (1-5)	Arlington (bu/A)	East Troy (bu/A)	Platteville (bu/A)	Protein (%)	Oil (%)	Yield (bu/A)	WM ³ (%)	Lodging (1-5)	Protein (%)	Oil (%)
Legend Seeds	LS 24X842N	2.4	18-Sep	*91	1.4	87	*96	*90	35.9	19.9	--	--	--	--	--
Legend Seeds	LS 25X924N	2.5	24-Sep	79	1.1	88	83	65	34.9	19.7	--	--	--	--	--
Legend Seeds	LS 27R524N	2.7	24-Sep	83	2.0	85	85	80	35.5	19.7	--	--	--	--	--
Legend Seeds	LS 28X840N	2.8	2-Oct	*90	1.2	*90	*100	78	36.0	18.7	71	28	1.0	35.5	17.0
Legend Seeds	LS 29X954N	2.9	30-Sep	85	1.4	87	90	76	36.2	18.7	--	--	--	--	--
LG Seeds	C2020R2	2.0	16-Sep	83	1.8	84	85	79	34.9	20.6	--	--	--	--	--
LG Seeds	LGS2007RX	2.0	16-Sep	82	1.3	86	84	77	36.1	19.9	--	--	--	--	--
LG Seeds	C2255R2	2.2	19-Sep	*89	1.3	*94	83	*90	34.6	20.4	--	--	--	--	--
LG Seeds	LGS2239RX	2.2	21-Sep	85	2.0	*89	83	82	33.4	20.3	--	--	--	--	--
LG Seeds	LGS2444RX	2.4	24-Sep	80	1.2	85	*93	61	35.6	19.3	--	--	--	--	--
LG Seeds	LGS2680RX	2.6	28-Sep	*88	1.8	84	91	*89	33.3	20.7	--	--	--	--	--
LG Seeds	LGS2759RX	2.7	28-Sep	84	1.2	85	87	79	34.5	19.2	--	--	--	--	--
LG Seeds	C2888RX	2.8	2-Oct	86	1.2	87	*94	77	35.8	18.7	62	40	1.0	35.7	16.7
NK	S20-J5X Brand	2.0	14-Sep	77	1.9	82	83	67	35.5	19.9	*80	9	1.0	35.9	18.0
NK	S20-T6 Brand	2.0	17-Sep	79	1.2	80	85	71	35.8	20.2	--	--	--	--	--
NK	S21-W8X Brand	2.1	18-Sep	81	1.5	83	83	77	35.3	20.4	*85	10	1.0	35.5	18.0
NK	S25-B6X Brand	2.5	25-Sep	78	1.2	83	85	65	35.5	19.6	78	12	1.0	34.7	18.3
NK	S27-M8X Brand	2.8	17-Sep	83	1.2	85	91	72	35.1	19.9	68	38	1.0	35.1	18.2
NK	S29-K3X Brand	2.9	26-Sep	*87	1.2	88	*94	78	35.8	19.4	--	--	--	--	--
NuTech	7224	2.2	16-Sep	83	1.3	86	87	76	33.5	21.0	74	4	1.0	34.1	19.4
O'Brien	O'SOY1901GT	1.9	10-Sep	65	1.4	59	78	59	36.9	19.2	--	--	--	--	--
O'Brien	O'SOY245NR2Y	2.4	17-Sep	76	1.6	82	82	64	36.1	19.1	--	--	--	--	--
O'Brien	O'SOY2500GT	2.5	20-Sep	73	2.1	69	82	68	36.1	19.4	59	45	1.0	37.0	17.3
Power Plus	20B7	2.0	15-Sep	81	1.3	84	82	76	33.5	21.1	*80	3	1.0	33.8	19.5
Power Plus	25G8	2.5	29-Sep	*90	1.0	*93	*98	79	35.0	19.4	70	15	1.0	36.4	17.3

TABLE 2. CONTINUED. 2018 Southern Region Glyphosate Tolerant Soybean Trial (4 of 4)

Brand	Entry	Maturity Group	Maturity Date ¹	2018 3-Test Average		2018 Yields			2018 Composition ¹		2017 (Arlington) ²			2017 Composition ¹	
				Yield (bu/A)	Lodging (1-5)	Arlington (bu/A)	East Troy (bu/A)	Platteville (bu/A)	Protein (%)	Oil (%)	Yield (bu/A)	WM ³ (%)	Lodging (1-5)	Protein (%)	Oil (%)
Renk	RS241R2	2.4	16-Sep	86	1.6	82	89	*87	35.0	20.0	67	29	1.0	35.3	18.0
Renk	RS248NX	2.4	22-Sep	86	1.2	*95	91	72	35.5	20.0	72	36	1.0	35.4	18.3
Renk	RS269NX	2.6	26-Sep	*87	1.9	81	*95	*85	33.2	20.6	--	--	--	--	--
Renk	RS288NX	2.8	2-Oct	*88	1.3	86	*96	82	35.6	18.9	69	34	1.0	35.8	16.8
Tracy	2138GT	2.1	18-Sep	73	1.1	79	81	58	33.9	20.6	--	--	--	--	--
Tracy	2308GT	2.3	16-Sep	70	1.3	72	84	54	35.5	20.1	72	5	1.0	35.6	19.0
Tracy	2808GT	2.8	10-Sep	72	1.3	61	90	62	35.2	19.6	53	19	1.0	35.3	18.4
Tracy	2938GT	2.9	30-Sep	*90	1.4	87	*97	*85	34.8	20.4	--	--	--	--	--
Mean			21-Sep	83	1.4	84	87	78	35.2	19.9	71	25	1.0	35.6	17.9
LSD (0.10)			--	7	0.5	7	7	11	0.5	0.3	11	22	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.

² The East Troy site was abandoned due to off target herbicide movement and Platteville was abandoned due to severe crusting and poor emergence.

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

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

TABLE 3. 2018 Central Region Glyphosate Tolerant Soybean Trial (1 of 4)

Brand	Entry	Maturity Group	Maturity Date ¹	2018 3-Test Average		2018 Yields			2018 Composition ¹		2017 3-Test Average		2017 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	G1502RX	1.5	13-Sep	73	2.3	*80	74	65	33.6	20.4	--	--	--	--
AgriGold	G1850RX	1.8	17-Sep	*80	1.7	*80	79	82	34.0	20.8	*65	1.0	36.1	18.9
AgriGold	G2250RX	2.2	17-Sep	75	1.5	74	78	74	31.8	22.0	*68	1.0	34.6	19.2
Asgrow	AG14X8	1.4	17-Sep	69	2.3	63	75	69	32.4	21.5	*69	1.3	33.0	19.6
Asgrow	AG18X9	1.8	17-Sep	72	1.8	68	76	71	32.4	21.1	--	--	--	--
Asgrow	AG19X8	1.9	13-Sep	69	1.4	65	71	72	32.7	21.5	*67	1.0	34.1	19.3
Asgrow	AG20X9	2.0	17-Sep	73	1.9	70	79	72	31.5	20.8	--	--	--	--
BioGene	BG8210RR2X	2.1	17-Sep	75	2.7	73	76	78	33.1	21.2	*64	1.1	35.2	18.7
Cornelius	CB19R71	1.9	17-Sep	74	1.9	68	72	81	33.1	20.7	--	--	--	--
Cornelius	9229RR2X	2.2	20-Sep	73	1.6	*78	67	73	32.0	21.9	--	--	--	--
Cornelius	CB24R82	2.4	24-Sep	*80	1.7	*80	*82	79	32.5	21.8	--	--	--	--
Dairyland	DSR-1120/R2Y	1.1	13-Sep	66	2.9	63	60	76	32.6	21.7	*69	1.0	34.1	19.2
Dairyland	DSR-1313/R2Y	1.3	13-Sep	75	2.3	*77	79	69	32.8	21.2	*67	1.0	34.3	19.0
Dairyland	DSR-1475/R2Y	1.4	10-Sep	73	2.3	71	79	70	33.0	20.6	*66	1.0	34.2	18.8
Dairyland	DSR-1509R	1.4	10-Sep	67	1.3	67	69	67	34.7	20.2	--	--	--	--
Dairyland	DSR-1526/R2Y	1.5	17-Sep	73	1.3	74	73	71	32.1	21.7	*66	1.2	33.7	19.3
Dairyland	DSR-1721/R2Y	1.7	13-Sep	61	2.4	64	51	69	31.9	21.8	*70	1.0	33.9	19.1
Dairyland	DSR-1870/R2Y	1.8	17-Sep	71	1.7	70	67	76	32.4	21.5	*66	1.0	34.1	19.2
Dairyland	DSR-1950/R2Y	1.9	17-Sep	76	1.8	73	75	79	33.0	20.9	*71	1.0	33.6	18.9
Dairyland	DSR-2073R	1.9	20-Sep	72	1.4	68	74	72	33.2	20.7	*67	1.0	35.5	18.1
Dairyland	DSR-2110/R2Y	2.1	17-Sep	68	1.9	62	67	74	33.7	20.1	58	1.0	33.8	19.2
Dairyland	DSR-2214X	2.3	24-Sep	*80	1.3	*75	*84	82	33.5	20.7	--	--	--	--

TABLE 3. CONTINUED. 2018 Central Region Glyphosate Tolerant Soybean Trial (2 of 4)

Brand	Entry	Maturity Group	Maturity Date ¹	2018 3-Test Average		2018 Yields			2018 Composition ¹		2017 3-Test Average		2017 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-2330/R2Y	2.3	24-Sep	77	1.5	*75	*80	76	32.4	21.5	*66	1.0	33.9	19.7
Dyna-Gro	SX18716XT	1.6	17-Sep	73	1.0	74	71	74	33.2	21.1	--	--	--	--
Dyna-Gro	S17RY67	1.7	13-Sep	74	2.0	72	71	80	32.2	21.5	*69	1.0	34.9	18.9
Dyna-Gro	S18XT38	1.8	20-Sep	73	1.5	70	71	78	33.9	20.7	60	1.0	35.7	18.8
Dyna-Gro	S21XT49	2.1	17-Sep	*79	1.3	74	77	*85	34.2	20.5	--	--	--	--
FS HiSOY	HS 16X80	1.6	17-Sep	71	1.3	73	73	67	32.6	21.2	--	--	--	--
FS HiSOY	HS 18X70	1.8	24-Sep	77	1.6	72	75	*84	34.4	20.5	*64	1.0	35.1	19.2
FS HiSOY	HS 21X70	2.1	24-Sep	77	1.2	74	*81	76	34.7	19.8	*65	1.0	36.4	17.8
FS HiSOY	HS 22X80	2.2	24-Sep	76	2.4	71	*83	73	31.3	21.4	--	--	--	--
FS HiSOY	HS 23X70	2.3	24-Sep	*78	1.3	72	*81	80	32.6	21.3	*66	1.0	32.3	19.7
FS HiSOY	HS 24X80	2.4	24-Sep	*82	1.3	*75	*86	*85	32.6	20.7	--	--	--	--
Golden Harvest	GH1619X Brand	1.6	13-Sep	72	2.0	69	68	78	30.2	22.4	--	--	--	--
Golden Harvest	GH1915X Brand	1.9	17-Sep	75	2.0	72	74	80	32.6	21.5	*70	1.0	33.3	19.4
Golden Harvest	GH2041X Brand	2.0	24-Sep	*78	1.9	*76	77	81	32.9	21.1	--	--	--	--
Golden Harvest	GH2230X Brand	2.2	20-Sep	*79	1.9	*78	*80	80	31.9	21.4	*65	1.0	33.7	19.5
Golden Harvest	GH2537X Brand	2.5	24-Sep	71	1.8	65	72	75	33.4	20.4	--	--	--	--
Jung	1203R2X	2.0	17-Sep	77	1.4	72	77	82	33.2	20.9	--	--	--	--
Jung	1213R2X	2.1	17-Sep	71	2.7	67	71	75	31.9	21.7	--	--	--	--
Jung	1223R2X	2.2	17-Sep	68	1.5	64	68	73	32.4	20.9	62	1.0	34.0	18.5
Jung	1243R2X	2.4	24-Sep	72	1.7	66	73	77	33.1	20.9	--	--	--	--
Legacy Seeds	LS-1639N RR2X	1.6	17-Sep	69	1.3	74	68	65	33.5	21.1	--	--	--	--
Legacy Seeds	LS-1838N RR2X	1.8	17-Sep	76	1.8	*75	70	*85	33.2	21.0	62	1.0	34.9	19.3

TABLE 3. CONTINUED. 2018 Central Region Glyphosate Tolerant Soybean Trial (3 of 4)

Brand	Entry	Maturity Group	Maturity Date ¹	2018 3-Test Average		2018 Yields			2018 Composition ¹		2017 3-Test Average		2017 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 (%)
Legacy Seeds	LS-2139N RR2X	2.1	17-Sep	77	1.3	71	*80	81	33.2	20.8	--	--	--	--
Legacy Seeds	LS-2339N RR2X	2.3	24-Sep	68	2.0	68	62	75	32.0	21.7	--	--	--	--
Legend Seeds	LS 12X862N	1.2	10-Sep	70	2.3	67	66	78	32.8	21.2	--	--	--	--
Legend Seeds	LS 16X932N	1.6	17-Sep	69	1.5	68	71	68	33.3	21.4	--	--	--	--
Legend Seeds	LS 18X860N	1.8	20-Sep	*84	1.5	*78	*84	*91	34.7	20.5	--	--	--	--
Legend Seeds	LS 20R524N	2.0	13-Sep	73	2.0	66	73	79	32.1	21.6	*64	1.0	35.1	18.9
Legend Seeds	LS 20X963N	2.0	20-Sep	*79	1.4	72	77	*87	33.1	20.5	--	--	--	--
LG Seeds	C1838RX	1.8	20-Sep	*84	1.3	*79	*83	*91	34.3	20.7	--	--	--	--
LG Seeds	C2020R2	2.0	13-Sep	*78	2.3	70	79	*84	33.7	21.1	*68	1.0	35.9	18.7
LG Seeds	LGS2007RX	2.0	20-Sep	*78	1.7	*78	78	79	33.7	20.5	--	--	--	--
LG Seeds	C2255R2	2.2	24-Sep	*79	1.7	73	*82	*83	31.7	21.3	*67	1.0	34.2	18.9
LG Seeds	LGS2239RX	2.2	24-Sep	76	2.2	72	*83	74	32.8	21.0	--	--	--	--
NK	S14-B2X Brand	1.4	13-Sep	65	1.4	66	63	65	32.1	21.9	--	--	--	--
NK	S18-G4X Brand	1.8	24-Sep	76	1.9	70	78	80	32.4	21.5	*64	1.0	35.4	18.3
NK	S18-H3X Brand	1.8	17-Sep	76	1.8	*76	72	81	33.1	21.1	--	--	--	--
NK	S20-J5X Brand	2.0	24-Sep	73	1.9	71	68	80	33.2	21.1	*64	1.0	35.6	18.3
NK	S20-T6 Brand	2.0	20-Sep	76	2.3	72	74	81	33.5	20.9	--	--	--	--
NK	S21-W8X Brand	2.1	20-Sep	76	2.2	*75	73	79	32.2	21.4	*64	1.1	35.6	18.5
NuTech	7224	2.2	24-Sep	75	1.7	70	*82	73	32.4	21.6	62	1.0	35.0	19.2
O'Brien	O'SOY1901GT	1.9	17-Sep	66	2.8	60	70	67	33.2	21.2	--	--	--	--
ProHarvest	2152CR2Y	2.1	13-Sep	70	1.7	73	68	70	33.5	20.3	--	--	--	--

TABLE 3. CONTINUED. 2018 Central Region Glyphosate Tolerant Soybean Trial (4 of 4)

Brand	Entry	Maturity Group	Maturity Date ¹	2018 3-Test Average		2018 Yields			2018 Composition ¹		2017 3-Test Average		2017 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 (%)
Renk	RS207NX	2.0	20-Sep	*78	2.3	73	77	*85	33.4	21.0	*64	1.2	34.0	19.4
Renk	RS219NX	2.1	24-Sep	*81	1.5	*77	78	*87	34.6	20.2	--	--	--	--
Renk	RS239NX	2.3	24-Sep	75	1.3	69	*81	76	32.6	21.3	--	--	--	--
Renk	RS241R2	2.4	20-Sep	76	1.8	70	*80	78	32.4	20.9	--	--	--	--
Renk	RS248NX	2.4	24-Sep	*81	1.7	*82	79	*83	32.9	20.8	--	--	--	--
Stine	19BA23	1.9	24-Sep	*80	1.2	*75	*81	*85	32.9	20.7	*64	1.0	33.0	19.9
Tracy	2008GT	2.0	20-Sep	66	2.9	53	68	76	33.7	20.6	*64	1.1	35.3	19.2
Tracy	2138GT	2.1	24-Sep	73	1.4	71	75	74	32.4	21.0	--	--	--	--
Tracy	2308GT	2.3	24-Sep	73	1.4	66	76	78	33.1	20.9	57	1.0	33.4	20.1
	Mean		18-Sep	74	1.8	71	75	77	32.9	21.1	64	1.0	34.6	18.9
	LSD (0.10)		--	6	0.7	7	6	8	1.0	0.6	7	NS	1.2	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. 2018 North Central Region Glyphosate Tolerant Soybean Trial (1 of 3)

Brand	Entry	Maturity Group	Maturity Date ¹	2018 3-Test Average		2018 Yields				2018 Composition ¹		2017 3-Test Average		2017 Composition ¹	
				Yield (bu/A)	Lodging (1-5)	Chippewa Falls (bu/A)	Marshfield (bu/A)	Seymour (bu/A)	SDS ² %	Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
Asgrow	AG11X8	1.1	7-Sep	68	1.8	*85	61	59	0	35.6	19.2	*77	1.0	34.6	17.7
Asgrow	AG14X8	1.4	11-Sep	61	1.8	75	49	57	6	33.9	20.7	73	1.0	34.2	18.7
BioGene	BG7141R2Y	1.4	18-Sep	70	2.2	76	62	*71	0	33.6	20.6	74	1.0	34.5	18.4
BioGene	BG7151R2Y	1.5	11-Sep	73	1.6	*88	66	65	1	33.9	20.7	72	1.0	34.6	18.7
Dairyland	DSR-0711/R2Y	0.7	31-Aug	63	1.8	71	60	57	1	34.0	20.2	69	1.0	34.0	18.5
Dairyland	DSR-0807/R2Y	0.8	7-Sep	60	1.9	78	56	45	2	35.9	19.4	70	1.1	36.1	17.3
Dairyland	DSR-0988/R2Y	0.9	11-Sep	65	2.0	75	63	58	0	33.8	20.1	*77	1.0	33.8	18.0
Dairyland	DSR-1120/R2Y	1.1	11-Sep	60	2.0	72	64	43	9	33.1	21.0	*75	1.0	33.9	18.8
Dairyland	DSR-1313/R2Y	1.3	15-Sep	71	2.0	*80	65	68	0	34.0	20.3	73	1.0	34.7	18.4
Dairyland	DSR-1475/R2Y	1.4	15-Sep	70	2.4	74	67	68	1	33.9	20.2	*75	1.0	34.8	17.7
Dairyland	DSR-1509R	1.4	15-Sep	66	1.7	75	49	*73	0	36.2	19.4	--	--	--	--
Dairyland	DSR-1526/R2Y	1.5	15-Sep	71	1.6	*85	60	67	2	34.0	20.6	71	1.0	34.3	18.8
Dairyland	DSR-1721/R2Y	1.7	15-Sep	65	1.6	77	67	51	39	33.8	20.5	*80	1.0	33.9	18.2
Dairyland	DSR-1870/R2Y	1.8	11-Sep	68	1.8	77	62	63	3	33.2	20.8	71	1.0	34.6	18.3
Dyna-Gro	S14XT98	1.4	15-Sep	67	1.4	*80	58	62	5	34.7	20.1	--	--	--	--
Dyna-Gro	SX18814XT	1.4	11-Sep	72	1.9	78	69	68	3	33.7	19.7	--	--	--	--
Federal Hybrids	F0990N R2X	0.9	31-Aug	58	2.3	70	44	62	1	38.1	19.0	--	--	--	--
Federal Hybrids	F106N RR2Y	1.0	31-Aug	63	2.3	74	56	60	1	33.9	20.3	72	1.2	34.1	18.0
Federal Hybrids	F1490N R2X	1.4	11-Sep	73	1.7	*82	69	69	3	33.8	19.8	--	--	--	--
Federal Hybrids	F154N RR2Y	1.5	18-Sep	72	2.0	*81	65	*70	5	33.8	20.5	74	1.0	34.0	18.8
Federal Hybrids	F1690N R2X	1.6	18-Sep	70	1.5	*80	62	68	1	34.7	20.4	--	--	--	--
FS HiSOY	HS 16X80	1.6	18-Sep	70	1.4	*81	63	66	0	35.1	20.2	--	--	--	--
FS HiSOY	HS 18X70	1.8	24-Sep	*75	1.5	75	*78	*72	0	34.6	20.0	71	1.0	35.3	18.2

TABLE 4. CONTINUED. 2018 North Central Region Glyphosate Tolerant Soybean Trial (2 of 3)

Brand	Entry	Maturity Group	Maturity Date ¹	2018 3-Test Average		2018 Yields				2018 Composition ¹		2017 3-Test Average		2017 Composition ¹	
				Yield (bu/A)	Lodging (1-5)	Chippewa Falls (bu/A)	Marshfield (bu/A)	Seymour (bu/A)	SDS ² %	Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
Jung	1142R2X	1.4	15-Sep	65	1.8	75	58	61	0	34.9	20.1	--	--	--	--
Jung	1154R2X	1.5	11-Sep	69	2.0	76	67	64	3	34.2	20.1	--	--	--	--
Jung	1173R2X	1.7	15-Sep	70	1.7	*87	60	62	8	30.9	21.1	--	--	--	--
Jung	1182R2X	1.8	15-Sep	66	1.8	73	60	66	2	32.2	21.1	74	1.0	33.8	18.5
Legacy Seeds	LS-1039N RR2	1.0	5-Sep	69	1.8	*89	66	52	1	34.7	20.4	--	--	--	--
Legacy Seeds	LS-1138N RR2X	1.1	15-Sep	62	1.8	71	62	53	7	34.1	20.2	71	1.0	33.8	18.2
Legacy Seeds	LS-1439N RR2X	1.4	11-Sep	69	1.4	*80	62	66	2	33.8	19.8	--	--	--	--
Legacy Seeds	LS-1639N RR2X	1.6	15-Sep	70	1.3	79	67	64	1	34.2	20.4	--	--	--	--
Legacy Seeds	LS-1838N RR2X	1.8	24-Sep	71	1.7	78	66	*70	1	34.2	20.1	69	1.0	34.7	18.3
Legacy Seeds	LS-2139N RR2X	2.1	19-Sep	*74	1.6	79	*77	67	3	34.7	19.8	--	--	--	--
Legend Seeds	LS 11R760N	1.1	11-Sep	66	1.7	77	63	57	7	33.6	20.1	71	1.0	35.9	17.3
Legend Seeds	LS 12X862N	1.2	7-Sep	65	1.5	*80	53	61	2	34.7	20.2	--	--	--	--
Legend Seeds	LS 14R22N	1.4	15-Sep	69	1.5	75	64	67	2	34.2	20.6	74	1.0	34.3	18.9
Legend Seeds	LS 14X862N	1.4	15-Sep	67	1.7	78	59	65	0	34.4	20.0	--	--	--	--
LG Seeds	C1414RX	1.4	15-Sep	70	1.8	78	65	67	0	34.3	20.4	74	1.0	34.2	18.2
LG Seeds	C1428R2	1.4	15-Sep	72	2.2	*84	62	*72	0	33.7	20.4	73	1.0	34.8	18.3
LG Seeds	LGS1635RX	1.6	18-Sep	70	1.4	*80	66	64	1	34.7	20.2	--	--	--	--
LG Seeds	C1838RX	1.8	19-Sep	*79	1.7	*82	*78	*77	0	34.2	19.9	--	--	--	--
Munson	8087R2Y	0.8	5-Sep	64	1.5	69	62	60	2	33.3	20.1	--	--	--	--
Munson	8153R2Y	1.5	15-Sep	73	1.7	*83	67	68	1	33.5	21.0	73	1.0	34.4	18.7
Munson	9159RR2X	1.5	18-Sep	73	1.3	*85	64	69	0	35.0	20.1	--	--	--	--
Munson	8196R2Y	1.9	15-Sep	73	1.3	*83	*72	63	9	33.2	20.3	74	1.0	34.5	18.0
NK	S09-R8X Brand	0.9	31-Aug	58	2.2	71	44	59	0	35.0	19.6	--	--	--	--

TABLE 4. CONTINUED. 2018 North Central Region Glyphosate Tolerant Soybean Trial (3 of 3)

Brand	Entry	Maturity Group	Maturity Date ¹	2018 3-Test Average		2018 Yields				2018 Composition ¹		2017 3-Test Average		2017 Composition ¹	
				Yield (bu/A)	Lodging (1-5)	Chippewa Falls (bu/A)	Marshfield (bu/A)	Seymour (bu/A)	SDS ² %	Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
NK	S10-H7X Brand	1.0	11-Sep	60	1.4	73	56	50	8	35.0	19.5	--	--	--	--
NK	S14-B2X Brand	1.4	11-Sep	64	1.8	*80	51	61	6	34.5	20.3	--	--	--	--
NK	S18-G4X Brand	1.8	15-Sep	72	1.7	*85	60	69	0	33.8	20.4	--	--	--	--
NK	S18-H3X Brand	1.8	18-Sep	72	1.5	*82	68	66	1	34.1	20.2	--	--	--	--
NuTech	6097R2	0.9	31-Aug	63	1.9	*83	52	54	1	33.2	21.2	69	1.3	32.0	20.0
O'Brien	O'SOY1901GT	1.9	19-Sep	67	1.9	78	71	51	8	35.2	19.7	--	--	--	--
ProHarvest	1484CR2Y	1.4	11-Sep	64	2.2	75	61	57	7	35.3	20.0	70	1.0	35.5	17.8
ProHarvest	ER17141	1.4	11-Sep	58	1.9	*80	46	48	7	34.4	19.8	--	--	--	--
ProHarvest	1638X	1.6	18-Sep	66	1.3	*81	55	63	1	34.8	20.2	74	1.0	34.5	18.5
ProHarvest	1863CR2Y	1.8	15-Sep	65	1.8	71	62	63	2	34.5	20.1	71	1.0	34.5	18.4
ProHarvest	2152CR2Y	2.1	18-Sep	72	1.4	*85	66	63	5	33.1	19.9	--	--	--	--
Renk	RS149NX	1.4	15-Sep	69	1.7	*81	64	62	0	34.1	19.6	--	--	--	--
Renk	RS153NR2	1.5	15-Sep	69	1.8	*83	62	63	4	33.9	20.5	--	--	--	--
Renk	RS169NX	1.6	24-Sep	72	1.5	*84	68	64	4	32.3	21.3	--	--	--	--
Renk	RS188NX	1.8	24-Sep	*75	1.3	79	*79	67	4	34.1	20.1	69	1.0	35.0	18.3
Stine	12BB22	1.1	7-Sep	60	2.4	72	55	54	14	32.7	20.9	--	--	--	--
Stine	19BA23	1.9	24-Sep	*81	1.4	*89	*80	*73	2	32.9	20.8	--	--	--	--
Tracy	0900GT	0.9	7-Sep	60	1.7	73	53	54	1	34.1	20.2	--	--	--	--
Mean			13-Sep	68	1.7	79	62	62	3	34.1	20.2	72	1.0	34.4	18.3
LSD (0.10)			--	7	0.5	9	8	7	6	0.9	0.4	5	NS	0.4	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 SDS = Sudden Death Syndrome ratings were 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. 2018 Northern Region Glyphosate Tolerant Soybean Trial (1 of 2)

Brand	Entry	Maturity Group	2018 3-Test Average			2018 Yields			2018 Composition ¹		2017 3-Test Average		2017 Composition ¹	
			Maturity Date	Yield (bu/A)	Lodging (1-5)	Marshfield (bu/A)	Spooner Dryland (bu/A)	Spooner Irrigated (bu/A)	Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
Asgrow	AG04X9	0.4	11-Sep	46	1.6	39	44	54	34.9	20.3	--	--	--	--
Asgrow	AG05X9	0.5	15-Sep	54	1.0	*56	47	58	35.2	19.7	--	--	--	--
Asgrow	AG08X8	0.8	20-Sep	55	1.2	52	50	62	36.9	19.3	*63	1.0	34.8	18.1
Asgrow	AG11X8	1.1	22-Sep	*59	1.0	*55	*55	66	35.3	19.4	*66	1.0	35.1	17.8
BioGene	BG7110R2Y	1.1	29-Sep	*62	1.5	*56	*55	*74	33.7	20.6	*63	1.0	35.1	18.3
Dairyland	DSR-0711/R2Y	0.7	16-Sep	55	1.3	*54	50	62	34.2	20.3	*62	1.0	34.0	18.6
Dairyland	DSR-0807/R2Y	0.8	17-Sep	54	1.3	*54	45	62	35.2	19.8	59	1.0	36.5	16.9
Dairyland	DSR-0988/R2Y	0.9	22-Sep	56	1.3	*56	49	64	33.7	20.0	*62	1.0	34.1	17.8
Federal Hybrids	F0990N R2X	0.9	19-Sep	49	1.3	44	48	56	36.8	19.2	--	--	--	--
Federal Hybrids	F106N RR2Y	1.0	19-Sep	57	1.1	*55	50	65	34.1	20.4	59	1.0	34.3	17.8
Jung	1071R2X	0.7	18-Sep	50	1.2	48	46	57	35.4	20.3	--	--	--	--
Jung	1091R2X	0.9	22-Sep	53	1.2	49	50	60	36.2	19.1	--	--	--	--
Jung	1122R2X	1.2	23-Sep	56	1.5	53	*54	62	36.1	19.5	--	--	--	--
Legacy Seeds	LS-0646 RR2	0.6	16-Sep	52	1.3	50	47	58	34.6	20.2	--	--	--	--
Legacy Seeds	LS-0738N RR2X	0.7	16-Sep	51	1.3	*54	47	52	35.8	19.3	*62	1.0	34.6	18.1
Legacy Seeds	LS-1039N RR2	1.0	19-Sep	*59	1.1	*58	*55	63	35.3	20.3	--	--	--	--
Legacy Seeds	LS-1138N RR2X	1.1	27-Sep	54	1.1	*55	44	63	34.6	20.2	*62	1.0	33.7	18.3
LG Seeds	LGS0774RX	0.7	20-Sep	56	1.4	*57	47	65	33.8	20.0	56	1.0	34.1	18.0
LG Seeds	C0850R2	0.8	21-Sep	*60	1.4	*59	*53	*70	34.5	20.2	--	--	--	--
LG Seeds	C1000RX	1.0	27-Sep	56	1.2	51	*52	66	34.9	20.1	*62	1.0	35.0	18.0
Munson	8087R2Y	0.8	21-Sep	53	1.1	*55	44	61	33.4	20.1	*65	1.0	34.1	17.9
Munson	8107R2Y	1.0	22-Sep	*58	1.0	*62	50	61	33.4	19.8	58	1.0	35.6	17.5
Munson	8146R2Y	1.4	23-Sep	*60	1.1	*62	*52	66	33.7	20.5	--	--	--	--
Munson	8153R2Y	1.5	29-Sep	*62	1.1	*61	*56	*69	34.5	20.5	--	--	--	--

TABLE 5. CONTINUED. 2018 Northern Region Glyphosate Tolerant Soybean Trial (2 of 2)

Brand	Entry	Maturity Group	2018 3-Test Average			2018 Yields			2018 Composition ¹		2017 3-Test Average		2017 Composition ¹	
			Maturity Date	Yield (bu/A)	Lodging (1-5)	Marshfield (bu/A)	Spooner Dryland (bu/A)	Spooner Irrigated (bu/A)	Protein (%)	Oil (%)	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)
NK	S07-Q4X Brand	0.7	16-Sep	54	1.0	52	49	60	36.8	19.6	--	--	--	--
NK	S09-R8X Brand	0.9	16-Sep	54	1.6	*54	*51	56	34.7	19.4	--	--	--	--
NK	S10-H7X Brand	1.0	24-Sep	55	1.1	52	*52	62	34.9	19.5	*64	1.0	35.2	17.6
NuTech	6097R2	0.9	23-Sep	*60	1.1	53	*53	*71	33.3	21.2	55	1.0	32.3	20.2
ProHarvest	0985CR2Y	0.9	19-Sep	*60	1.0	*63	*51	66	34.3	20.3	--	--	--	--
ProHarvest	1171R2Y	1.1	21-Sep	55	1.3	*57	48	61	35.5	18.5	59	1.0	36.2	16.8
ProHarvest	1484CR2Y	1.4	27-Sep	*59	1.2	*57	*54	66	35.2	20.0	*66	1.0	35.8	17.7
ProHarvest	ER17141	1.4	27-Sep	51	1.4	44	48	62	34.8	19.6	*63	1.0	34.3	18.0
Renk	RS084NR2	0.8	18-Sep	57	1.2	*54	50	67	34.5	20.1	--	--	--	--
Renk	RS089NX	0.8	19-Sep	48	1.3	47	46	51	37.1	19.0	--	--	--	--
Renk	RS096NR2	0.9	19-Sep	*58	1.1	*58	50	66	34.1	20.2	*63	1.0	34.5	18.0
Stine	12BB22	1.1	24-Sep	*58	1.5	*54	*55	63	32.7	21.0	--	--	--	--
Mean			20-Sep	55	1.2	54	50	62	34.8	19.9	60	1.0	34.8	18.0
LSD (0.10)			3	4	NS	9	5	6	0.8	0.4	5	NS	0.5	0.3

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

¹ Protein and oil determined at the Marshfield site.

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

FOOTNOTES FOR TABLE 6 ON FOLLOWING PAGE →

¹ Herbicide Trait : CN = conventional, LL = glufosinate, GT = glyphosate
² Maturity date, protein, and oil determined at the Arlington site.
³ Platteville was abandoned in 2017 due to severe crusting and poor emergence.
⁴ WM = White mold expressed as percent of diseased plants.
Results that are shaded provide the best estimate of relative variety performance.

TABLE 6. 2018 Southern Conventional and Traited Herbicide Soybean Trial

Brand	Entry	Herbicide Trait ¹	Maturity Group	Maturity Date ²	2018 2-Test Average		2018 Yields		2018 Composition ²		2017 Arlington ³			2017 Composition ²		
					Yield (bu/A)	Lodging (1-5)	Arlington (bu/A)	Platteville (bu/A)	Protein (%)	Oil (%)	Yield (bu/A)	WM ⁴ (%)	Lodging (1-5)	Protein (%)	Oil (%)	
Hughes	236LL	LL	2.3	24-Sep	*91	1.6	*87	*95	36.6	18.9	*83	13	1.0	36.3	17.5	
Hughes	266LL	LL	2.6	27-Sep	*85	1.6	*82	*88	36.2	19.6	*76	14	1.0	35.3	18.2	
Legend Seeds	LS 17C930N	CN	1.7	12-Sep	77	2.3	73	82	33.4	20.9	--	--	--	--	--	
Legend Seeds	LS 2180HP	CN	2.1	26-Sep	77	1.8	69	84	39.0	18.4	--	--	--	--	--	
Legend Seeds	LS 21C964N	CN	2.1	18-Sep	82	1.3	78	86	34.3	19.9	--	--	--	--	--	
Legend Seeds	LS 24C756N	CN	2.4	29-Sep	80	2.1	*81	79	37.1	19.1	--	--	--	--	--	
Legend Seeds	LS 2580NHP	CN	2.5	3-Oct	83	2.1	*82	84	37.2	19.5	--	--	--	--	--	
Legend Seeds	LS 28C726N	CN	2.8	4-Oct	*84	2.1	*88	79	36.5	18.9	--	--	--	--	--	
Legend Seeds	LS 2880NHP	CN	2.8	3-Oct	75	2.4	76	74	37.7	19.0	--	--	--	--	--	
Public	MN1410	CN	1.4	16-Sep	70	2.8	71	70	37.0	20.2	*76	1	1.0	36.2	18.9	
Public	Dane	CN	1.5	20-Sep	60	1.5	59	61	36.5	21.0	60	0	1.0	37.9	17.9	
SB&B	SB165	CN	1.6	13-Sep	71	1.1	62	80	38.5	18.9	--	--	--	--	--	
Viking	1518N	CN	1.5	12-Sep	*84	2.3	*82	87	36.6	18.6	--	--	--	--	--	
Viking	2018N	CN	2.0	26-Sep	*90	1.6	*87	*93	34.2	20.3	--	--	--	--	--	
Viking	2155N	CN	2.1	27-Sep	*85	3.0	*82	*88	35.7	18.6	--	--	--	--	--	
Viking	2188AT12N	CN	2.4	4-Oct	*89	2.9	*87	*91	36.1	19.0	*76	13	1.0	36.4	17.4	
Viking	0.2518N	CN	2.5	26-Sep	*86	2.1	*83	*88	37.5	19.4	--	--	--	--	--	
GT check	11239	GT	1.7	14-Sep	74	2.4	76	72	35.9	19.9	--	--	--	--	--	
GT check	11499	GT	1.9	14-Sep	*85	1.5	*80	*91	34.4	20.8	--	--	--	--	--	
GT check	11487	GT	2.2	22-Sep	83	1.6	*82	83	34.5	20.0	--	--	--	--	--	
GT check	11500	GT	2.2	20-Sep	*87	2.1	*81	*92	35.6	20.0	--	--	--	--	--	
GT check	11475	GT	2.3	29-Sep	*88	1.6	*85	*90	34.8	20.1	--	--	--	--	--	
GT check	11419	GT	2.4	26-Sep	*92	2.3	*86	*98	35.5	19.9	*82	5	1.0	34.6	19.0	
				Mean	23-Sep	82	2.0	79	84	36.1	19.6	74	14	1.0	35.7	18.0
				LSD (0.10)	--	8	0.9	8	10	0.5	0.4	11	20	NS	0.6	0.3

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

FOOTNOTES CONTINUED ON PREVIOUS PAGE

TABLE 7. 2018 North Central Conventional and Traited Herbicide Soybean Trial (1 of 2)

Brand	Entry	Herbicide Trait ¹	Maturity Group	Maturity Date	2018 Chippewa Falls				2017 Chippewa Falls				
					Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)	Yield (bu/A)	WM ² (%)	Lodging (1-5)	Protein (%)	Oil (%)
Legend Seeds	LS 0380HP	CN	0.3	1-Sep	63	1.3	38.5	18.8	--	--	--	--	--
Legend Seeds	LS 0702HP	CN	0.7	29-Aug	54	4.8	39.3	18.7	62	4	1.0	38.8	17.0
Legend Seeds	LS 0990HP	CN	0.9	3-Sep	65	4.0	37.4	19.5	--	--	--	--	--
Legend Seeds	LS 1172LLN	LL	1.1	10-Sep	72	3.3	36.4	19.9	*67	9	2.0	35.1	18.9
Legend Seeds	LS 1380HP	CN	1.3	18-Sep	68	3.5	38.1	18.8	--	--	--	--	--
Legend Seeds	LS 14C953N	CN	1.4	12-Sep	*77	3.0	36.3	18.5	--	--	--	--	--
Legend Seeds	LS 1527LLN	LL	1.5	20-Sep	*78	2.5	37.4	18.7	63	20	1.3	36.4	17.2
Legend Seeds	LS 17C930N	CN	1.7	22-Sep	*80	3.8	34.0	20.2	--	--	--	--	--
PROSeeds	SVX 18T02	CN	0.9	4-Sep	*75	2.8	36.1	20.4	--	--	--	--	--
PROSeeds	SVX 18T05	CN	0.9	1-Sep	66	5.0	36.5	19.9	--	--	--	--	--
PROSeeds	SVX 18T08	CN	0.9	4-Sep	65	2.5	37.9	19.6	--	--	--	--	--
PROSeeds	SVX 18T07	CN	1.1	11-Sep	71	3.0	39.8	19.2	--	--	--	--	--
PROSeeds	SVX 18T12	CN	1.1	5-Sep	71	3.5	36.4	19.8	--	--	--	--	--
PROSeeds	SVX 18T10	CN	1.3	7-Sep	*74	4.5	36.1	20.6	--	--	--	--	--
PROSeeds	SVX 18T09	CN	1.5	20-Sep	71	4.0	38.0	18.0	--	--	--	--	--
Public	MN1410	CN	1.4	12-Sep	70	3.3	36.7	19.7	61	8	1.5	36.6	18.4
Public	Dane	CN	1.5	11-Sep	53	1.5	37.2	19.9	50	1	1.0	38.1	17.4
SB&B	SB0718	CN	0.8	5-Sep	60	2.5	37.1	19.6	--	--	--	--	--
SB&B	SB90	CN	1.1	1-Sep	*74	2.3	37.1	19.6	--	--	--	--	--
SB&B	SB1270	CN	1.2	12-Sep	63	5.0	36.3	19.1	--	--	--	--	--
SB&B	SB165	CN	1.6	3-Sep	61	2.5	39.3	18.1	--	--	--	--	--
SB&B	SB86	CN	1.8	16-Sep	72	1.3	35.7	19.0	--	--	--	--	--

TABLE 7. CONTINUED. 2018 North Central Conventional and Traited Herbicide Soybean Trial (2 of 2)

Brand	Entry	Herbicide Trait ¹	Maturity Group	2018 Chippewa Falls					2017 Chippewa Falls				
				Maturity Date	Yield (bu/A)	Lodging (1-5)	Protein (%)	Oil (%)	Yield (bu/A)	WM ² (%)	Lodging (1-5)	Protein (%)	Oil (%)
Viking	1218N	CN	1.2	10-Sep	*76	3.3	36.6	18.9	--	--	--	--	--
Viking	0.1202N	CN	1.2	12-Sep	*79	3.0	37.2	18.5	65	10	1.5	37.1	17.2
Viking	1518N	CN	1.5	9-Sep	73	4.0	36.8	18.2	--	--	--	--	--
GT check	11348	GT	0.9	1-Sep	72	3.8	34.7	19.2	--	--	--	--	--
GT check	11463	GT	1.1	7-Sep	*77	2.5	36.0	18.9	--	--	--	--	--
GT check	11415	GT	1.4	7-Sep	*81	3.8	35.9	19.5	--	--	--	--	--
GT check	11560	GT	1.6	16-Sep	*75	2.0	37.0	18.9	--	--	--	--	--
GT check	11239	GT	1.7	16-Sep	*78	2.8	36.1	19.9	--	--	--	--	--
GT check	11544	GT	1.8	18-Sep	*82	3.3	34.9	19.5	--	--	--	--	--
Mean				8-Sep	71	3.2	36.8	19.2	63	8	1.4	36.1	17.9
LSD (0.10)				--	8	1.0	0.7	0.4	4	8	0.8	0.4	0.3

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

¹ Herbicide Trait : CN = conventional, LL = glufosinate, GT = glyphosate

² WM = White mold expressed as percent of diseased plants.

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

TABLE 8.
2018 Seed Source for
Soybean Entries

Brand	Company	Phone Number	Website
AgriGold	AgriGold Hybrids	(618) 292-5844	www.agrigold.com
Asgrow	Monsanto Company	(785) 214-3254	www.aganytime.com
BioGene	Van Treeck's Seed Farm	(920) 467-2422	www.biogeneseeds.com
Cornelius	Cornelius Seed	(563) 672-3463	www.corneliusseed.com
Dairyland	Dairyland Seed	(800) 236-0163	www.dairylandseed.com
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) 557-6399	www.fsseeds.com
Golden Harvest	Golden Harvest	(612) 656-8600	goldenharvestseeds.com
Hughes	Burrus Bros & Associated Growers	(815) 338-1141	www.burrusseed.com
Jung	Jung Seed Genetics	(800) 242-1855	www.jungseedgenetics.com
Legacy Seeds	Legacy Seeds Inc.	(715) 467-2556	www.legacyseeds.com
Legend Seeds	Legend Seeds Inc.	(715) 821-0907	www.legendseeds.net
LG Seeds	LG Seeds	(800) 257-7333	www.lgseeds.com
NK	Syngenta	(262) 220-3015	www.syngentaseeds.com
NuTech	NuTech Seed, LLC	(402) 661-4700	www.yieldleader.com
O'Brien	O'Brien Hybrids	(608) 576-3685	www.obrienhybrids.com
Power Plus	Burrus Bros & Associated Growers	(815) 338-1141	www.burrusseed.com
ProHarvest	Brunner Seed Inc.	(715) 672-5887	www.brunnerseed.com
PROSeeds	Sevita International	(226) 627-2341	www.sevita.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.	(701) 347-4900	sb-b.com
Stine	Stine Seed Company	(612) 756-4102	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. 2018 Temperature and Precipitation Summary

Trial Location	Average Mean Temperature (° F)					Total Precipitation (inches)						
	May	June	July	August	September	May	June	July	August	September		
Arlington		64.0	68.7	71.4	70.9	63.6	7.1	5.3	2.4	9.4	4.4	
	Departure	8.3	3.1	2.0	3.6	4.3	Departure	3.4	0.6	-1.8	5.5	0.9
Chippewa Falls* (Eau Claire)		63.8	69.9	71.0	69.7	61.9	3.0	4.2	1.6	5.6	4.8	
	Departure	6.2	3.0	-0.6	0.4	1.7	Departure	-0.4	0.0	-2.3	1.2	1.1
	Irrigation						Irrigation	0.0	0.0	0.8	3.8	0.8
East Troy (Burlington)		61.3	66.3	70.6	70.2	63.7	5.5	6.0	2.2	4.8	5.3	
	Departure	5.4	0.2	0.1	1.2	2.9	Departure	1.8	2.2	-1.2	0.9	2.0
Fond du Lac		63.1	66.7	71.2	69.7	62.2	7.1	2.6	3.6	9.6	3.3	
	Departure	6.8	0.7	0.8	1.1	1.5	Departure	3.9	-1.3	0.1	6.1	-0.2
Galesville (Trempealeau)		67.2	73.4	74.5	73.5	66.0	7.1	5.6	3.3	3.5	6.3	
	Departure	7.9	4.9	1.8	3.0	3.9	Departure	3.3	1.8	-1.1	-1.0	2.5
Hancock*		63.5	67.5	71.3	69.9	62.5	6.3	5.5	4.0	7.1	5.7	
	Departure	6.7	1.0	1.0	1.6	2.5	Departure	2.6	1.0	-0.4	2.9	2.4
	Irrigation						Irrigation	0.3	1.2	5.2	2.9	0.0
Marshfield		62.5	67.1	70.5	68.8	61.3	4.1	5.5	2.6	4.5	4.9	
	Departure	6.4	1.3	0.4	0.7	2.2	Departure	0.4	1.0	-1.4	0.2	1.0
Platteville (Lancaster)		64.7	69.6	71.7	70.8	64.0	6.4	6.4	5.4	9.1	12.1	
	Departure	7.4	2.7	0.9	1.8	3.2	Departure	2.3	1.1	1.1	4.9	9.0
Seymour (Green Bay)		62.3	67.7	71.7	70.1	62.9	3.7	4.8	3.1	6.3	5.0	
	Departure	6.1	2.2	1.9	1.6	3.1	Departure	0.7	0.9	-0.4	3.0	1.9
Spooner*		63.0	67.1	69.8	68.5	60.4	3.1	5.2	2.9	3.0	4.6	
	Departure	7.3	2.2	0.5	1.2	2.1	Departure	-0.4	1.1	-1.2	-1.2	0.8
	Irrigation						Irrigation	0.4	0.0	1.6	2.2	0.0

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

Source: Wisconsin State Climatology Office; Long term normals from 1981 to 2010 used for departure data.

TABLE 10. 2018 Characteristics of Soybean Varieties (1 of 9)

Brand	Entry	Maturity Group	Herbicide Trait ¹	Performance Shown in Table(s):	Seed Treatment(s)	SCN Source ²	PRR Genes ³	Color ⁴			
								Flower	Pubescence	Pod	Hilum
AgriGold	G1502RX	1.5	RR2X	3	AgriShield F/I, ILeVO	PI 88788	Rps 1-c	P	LTW	BR	BL
AgriGold	G1850RX	1.8	RR2X	3	AgriShield F/I, ILeVO	PI 88788	Rps 1-a, 3-a	P	G	BR	BF
AgriGold	G2105RX	2.1	RR2X	2	AgriShield F/I, ILeVO	PI 88788	Rps 1-c	P	LTW	BR	BL
AgriGold	G2250RX	2.2	RR2X	2,3	AgriShield F/I, ILeVO	PI 88788	Rps 3-a, 1-k	W	TW	T	BL
AgriGold	G2405RX	2.4	RR2X	2	AgriShield F/I, ILeVO	PI 88788	S	P	LTW	T	BL
AgriGold	G2900RX	2.9	RR2X	2	AgriShield F/I, ILeVO	PI 88788	Rps 1-c	P	G	BR	IB
Asgrow	AG04X9	0.4	RR2X	5	Acceleron F/I	PI 88788	Rps 1-c	P	G	BR	IB
Asgrow	AG05X9	0.5	RR2X	5	Acceleron F/I	PI 88788	Rps 1-c	P	G	BR	IB
Asgrow	AG08X8	0.8	RR2X	5	Acceleron F/I	PI 88788	Rps 3-a	P	LTW	T	BL
Asgrow	AG11X8	1.1	RR2X	4,5	Acceleron F/I	PI 88788	Rps 3-a	P	LTW	T	BR
Asgrow	AG14X8	1.4	RR2X	3,4	Acceleron F/I	PI 88788	Rps 1-c	P	LTW	BR	BL
Asgrow	AG18X9	1.8	RR2X	3	Acceleron F/I	PI 88788	Rps 1-c	P	G	BR	IB
Asgrow	AG19X8	1.9	RR2X	3	Acceleron F/I	PI 88788	Rps 1-c	P	G	BR	IB
Asgrow	AG20X9	2.0	RR2X	3	Acceleron F/I	PI 88788	Rps 1-c	P	G	BR	IB
Asgrow	AG23X9	2.3	RR2X	2	Acceleron F/I	Peking	Rps 1-c	P	G	BR	IB
Asgrow	AG24X9	2.4	RR2X	2	Acceleron F/I	PI 88788	Rps 1-c	P	G	BR	IB
Asgrow	AG27X9	2.7	RR2X	2	Acceleron F/I	Peking	Rps 1-c	P	G	BR	IB
BioGene	BG7110R2Y	1.1	RR2Y	5	Arma	PI 88788	Rps 1-c	W	G	BR	BF
BioGene	BG7141R2Y	1.4	RR2Y	4	Arma	PI 88788	Rps 1-c	P	LTW	BR	BL
BioGene	BG7151R2Y	1.5	RR2Y	4	Arma	PI 88788	Rps 1-c	P	LTW	BR	BL
BioGene	BG8210RR2X	2.1	RR2X	3	Arma	PI 88788	Rps 1-c	P	LTW	BR	BR
Cornelius	CB19R71	1.9	RR2Y	3	Intego Suite	PI 88788	Rps 1-c	P	G	T	IB
Cornelius	9229RR2X	2.2	RR2X	2,3	Intego Suite	PI 88788	Rps 1-c	P	G	T	IB
Cornelius	CB22R88	2.2	RR2Y	2	Profit Guard Plus	PI 88788	Rps 1-c	--	--	--	--
Cornelius	CB23X00	2.3	RR2X	2	Profit Guard Plus	PI 88788	Rps 1-c	--	--	--	--
Cornelius	CB24R82	2.4	RR2Y	2,3	Profit Guard Plus	PI 88788	Rps 1-k	--	--	--	--

All characteristic information is provided by the originator.

¹ Herbicide Trait : CN = conventional, LL = glufosinate, GT or RR2Y = glyphosate, RR2X = glyphosate & dicamba, GT27 = 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, 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. 2018 Characteristics of Soybean Varieties (2 of 9)

Brand	Entry	Maturity Group	Herbicide Trait ¹	Performance Shown in Table(s):	Seed Treatment(s)	SCN Source ²	PRR Genes ³	Color ⁴			
								Flower	Pubescence	Pod	Hilum
Cornelius	CB24X64	2.4	RR2X	2	Profit Guard Plus	PI 88788	--	--	--	--	--
Cornelius	9258RR2X	2.5	RR2X	2	Intego Suite	PI 88788	Rps 1-c	P	G	T	IB
Cornelius	CB26R30	2.6	RR2Y	2	Profit Guard Plus	S	Rps 3-a	P	G	T	IB
Cornelius	CB26X67	2.6	RR2X	2	Profit Guard Plus	S	Rps 1-c	--	--	--	--
Cornelius	CB27X81	2.7	RR2X	2	Profit Guard Plus	PI 88788	Rps 1-c	--	--	--	--
Cornelius	CB28R58	2.8	RR2Y	2	Profit Guard Plus	PI 88788	Rps 3-a	P	LTW	T	BL
Cornelius	CB29X90	2.9	RR2X	2	Profit Guard Plus	PI 88788	Rps 1-c	--	--	--	--
Dairyland	DSR-0711/R2Y	0.7	RR2Y	4,5	CruiserMaxx, Optimize	PI 88788	Rps 1-k	P	TW	BR	G
Dairyland	DSR-0807/R2Y	0.8	RR2Y	4,5	CruiserMaxx, Optimize	--	Rps 1-c	P	LTW	BR	Y
Dairyland	DSR-0988/R2Y	0.9	RR2Y	4,5	CruiserMaxx, Optimize	PI 88788	Rps 1-c	P	LTW	BR	BL
Dairyland	DSR-1120/R2Y	1.1	RR2Y	3,4	CruiserMaxx, Optimize	--	Rps 1-k	P	G	BR	Y
Dairyland	DSR-1313/R2Y	1.3	RR2Y	3,4	CruiserMaxx, Optimize	PI 88788	Rps 1-c	P	LTW	BR	BL
Dairyland	DSR-1475/R2Y	1.4	RR2Y	3,4	CruiserMaxx, Optimize	PI 88788	Rps 1-c	P	LTW	BR	BL
Dairyland	DSR-1509R	1.4	GT	3,4	SmartCote Supreme	PI 88788	Rps 1-k	P	TW	BR	BR
Dairyland	DSR-1526/R2Y	1.5	RR2Y	2,3,4	CruiserMaxx, Optimize	PI 88788	Rps 1-c	P	LTW	BR	BL
Dairyland	DSR-1721/R2Y	1.7	RR2Y	2,3,4	CruiserMaxx, Optimize	PI 88788	Rps 1-k	P	G	T	IB
Dairyland	DSR-1870/R2Y	1.8	RR2Y	2,3,4	CruiserMaxx, Optimize	PI 88788	Rps 1-c	P	LTW	BR	BL
Dairyland	DSR-1950/R2Y	1.9	RR2Y	2,3	CruiserMaxx, Optimize	PI 88788	Rps 1-c	P	G	BR	BR
Dairyland	DSR-2073R	1.9	GT	2,3	SmartCote Supreme	PI 88788	Rps 1-k	P	G	T	IB
Dairyland	DSR-2110/R2Y	2.1	RR2Y	2,3	CruiserMaxx, Optimize	PI 88788	Rps 1-c	P	LTW	T	BR
Dairyland	DSR-2214X	2.3	RR2X	2,3	SmartCote Supreme	PI 88788	Rps 1-k	P	LTW	BR	BL
Dairyland	DSR-2330/R2Y	2.3	RR2Y	2,3	CruiserMaxx, Optimize	PI 88788	Rps 1-k	P	LTW	BR	BL
Dairyland	DSR-2539R	2.5	GT	2	SmartCote Supreme	Peking	Rps 1-k	P	LTW	BR	BR
Dairyland	DSR-2616/R2Y	2.6	RR2Y	2	CruiserMaxx, Optimize	PI 88788	Rps 3-a	P	G	T	IB
Dairyland	DSR-2909/R2Y	2.9	RR2Y	2	CruiserMaxx, Optimize	PI 88788	Rps 1-a	P	LTW	T	BL

All characteristic information is provided by the originator.

¹ Herbicide Trait : CN = conventional, LL = glufosinate, GT or RR2Y = glyphosate, RR2X = glyphosate & dicamba, GT27 = 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, 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. 2018 Characteristics of Soybean Varieties (3 of 9)

Brand	Entry	Maturity Group	Herbicide Trait ¹	Performance Shown in Table(s):	Seed Treatment(s)	SCN Source ²	PRR Genes ³	Color ⁴			
								Flower	Pubescence	Pod	Hilum
Dyna-Gro	S14XT98	1.4	RR2X	4	Equity VIP, Clariva	PI 88788	Rps 3-a, 1-k	P	LTW	T	BL
Dyna-Gro	SX18814XT	1.4	RR2X	4	Equity VIP, Clariva	PI 88788	HRps 1-c	P	LTW	BR	BL
Dyna-Gro	SX18716XT	1.6	RR2X	3	Equity VIP, Clariva	PI 88788	Rps 1-c	P	LTW	BR	BR
Dyna-Gro	S17RY67	1.7	RR2Y	3	Equity VIP, Clariva	PI 88788	Rps 1-c	P	LTW	BR	BL
Dyna-Gro	S18XT38	1.8	RR2X	3	Equity VIP, Clariva	PI 88788	Rps 1-a, 3-a	P	G	BR	BF
Dyna-Gro	S21XT49	2.1	RR2X	2,3	Equity VIP, Clariva	PI 88788	Rps 1-a, 3-a	P	G	BR	BF
Dyna-Gro	S23XT78	2.3	RR2X	2	Equity VIP, Clariva	PI 88788	Rps 1-c	P	G	BR	IB
Dyna-Gro	SX18723XT	2.3	RR2X	2	Equity VIP, Clariva	PI 88788	Rps 1-c	P	G	T	IB
Dyna-Gro	S24RY87	2.4	RR2Y	2	Equity VIP, Clariva	PI 88788	Rps 1-k	P	LTW	BR	BL
Dyna-Gro	S28XT58	2.8	RR2X	2	Equity VIP, Clariva	PI 88788	Rps 1-c	P	G	BR	IB
Federal Hybrids	F0990N R2X	0.9	RR2X	4,5	Maximum ArmourGuard	PI 88788	Rps 3-a	P	LTW	T	BR
Federal Hybrids	F106N RR2Y	1.0	RR2Y	4,5	Maximum ArmourGuard	PI 88788	Rps 1-c	P	LTW	BR	BL
Federal Hybrids	F1490N R2X	1.4	RR2X	4	Maximum ArmourGuard	PI 88788	HRps 1-c	P	LTW	BR	BL
Federal Hybrids	F154N RR2Y	1.5	RR2Y	4	Maximum ArmourGuard	PI 88788	Rps 1-c	P	LTW	BR	BL
Federal Hybrids	F1690N R2X	1.6	RR2X	4	Maximum ArmourGuard	PI 88788	Rps 1-c	P	LTW	BR	BR
FS HiSOY	HS 16X80	1.6	RR2X	2,3,4	Acceleron, Cue, IleVO	PI 88788	Rps 1-c	P	LTW	BR	BR
FS HiSOY	HS 18X70	1.8	RR2X	2,3,4	Acceleron, Cue, IleVO	PI 88788	Rps 1-a, 3-a	P	G	BR	BF
FS HiSOY	HS 21X70	2.1	RR2X	2,3	Acceleron, Cue, IleVO	PI 88788	Rps 3-a	P	LTW	BR	BR
FS HiSOY	HS 22X80	2.2	RR2X	2,3	Acceleron, Cue, IleVO	Peking	Rps 1-c	P	G	BR	IB
FS HiSOY	HS 23X70	2.3	RR2X	2,3	Acceleron, Cue, IleVO	Peking	Rps 1-c	P	G	BR	IB
FS HiSOY	HS 24X80	2.4	RR2X	2,3	Acceleron, Cue, IleVO	PI 88788	Rps 1-c	P	G	BR	IB
FS HiSOY	HS 25X70	2.5	RR2X	2	Acceleron, Cue, IleVO	PI 88788	Rps 1-c	P	G	T	IB
FS HiSOY	HS 27X80	2.7	RR2X	2	Acceleron, Cue, IleVO	PI 88788	Rps 1-c	W	LTW	BR	BL
FS HiSOY	HS 28X70	2.8	RR2X	2	Acceleron, Cue, IleVO	PI 88788	Rps 1-c	P	G	BR	IB

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¹ Herbicide Trait : CN = conventional, LL = glufosinate, GT or RR2Y = glyphosate, RR2X = glyphosate & dicamba, GT27 = 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, 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. 2018 Characteristics of Soybean Varieties (4 of 9)

Brand	Entry	Maturity Group	Herbicide Trait ¹	Performance Shown in Table(s):	Seed Treatment(s)	SCN Source ²	PRR Genes ³	Color ⁴			
								Flower	Pubescence	Pod	Hilum
Golden Harvest	GH1619X Brand	1.6	RR2X	3	Clariva Complete, Mertect	PI 88788	S	W	LTW	T	BR
Golden Harvest	GH1915X Brand	1.9	RR2X	2,3	Clariva Complete, Mertect	PI 88788	Rps 1-c	W	LTW	BR	BL
Golden Harvest	GH2041X Brand	2.0	RR2X	2,3	Clariva Complete, Mertect	PI 88788	Rps 1-c	W	LTW	BR	BL
Golden Harvest	GH2230X Brand	2.2	RR2X	2,3	Clariva Complete, Mertect	PI 88788	Rps 1-c	W	LTW	BR	BL
Golden Harvest	GH2537X Brand	2.5	RR2X	2,3	Clariva Complete, Mertect	PI 88788	Rps 1-c	W	LTW	BR	BR
Golden Harvest	GH2788X Brand	2.7	RR2X	2	Clariva Complete, Mertect	PI 88788	Rps 1-c	P	G	BR	IB
Hughes	236LL	2.3	LL	6	EverGol Energy, Gaucho, ILeVO	S	Rps 1-k	P	LTW	T	BR
Hughes	266LL	2.6	LL	6	Apron XL, Cruiser, ILeVO, Maxim, Vibrance	S	Rps 1-c	P	LTW	T	BL
Jung	1071R2X	0.7	RR2X	5	Acceleron F/I	PI 88788	Seg. Rps 1-c, 3-a	P	G	BR	IB
Jung	1091R2X	0.9	RR2X	5	Acceleron F/I	PI 88788	Rps 3-a	P	LTW	T	BR
Jung	1122R2X	1.2	RR2X	5	Acceleron F/I	PI 88788	Rps 3-a	P	LTW	T	BR
Jung	1142R2X	1.4	RR2X	4	Acceleron F/I	PI 88788	Rps 1-c, 3-a	P	LTW	BR	BR
Jung	1154R2X	1.5	RR2X	4	Acceleron F/I	PI 88788	Rps 1-c	P	LTW	BR	BL
Jung	1173R2X	1.7	RR2X	4	Acceleron F/I	PI 88788	Rps 1-c	P	G	BR	IB
Jung	1182R2X	1.8	RR2X	4	Acceleron F/I	PI 88788	Rps 1-c	P	LTW	BR	BL
Jung	1203R2X	2.0	RR2X	3	Acceleron F/I	PI 88788	Rps 1-a, 3-a	P	G	BR	BF
Jung	1213R2X	2.1	RR2X	3	Acceleron F/I	PI 88788	Rps 1-c	P	LTW	BR	BL
Jung	1223R2X	2.2	RR2X	3	Acceleron F/I	PI 88788	S	P	G	T	IB
Jung	1243R2X	2.4	RR2X	3	Acceleron F/I	PI 88788	Rps 1-c	P	G	BR	IB
Legacy Seeds	LS-0646 RR2	0.6	RR2Y	5	L-Coat Total, Excalibre	PI 88788	Rps 1-c	P	LTW	T	BL
Legacy Seeds	LS-0738N RR2X	0.7	RR2X	5	L-Coat Total, Excalibre	PI 88788	Rps 3-a	P	LTW	T	BR
Legacy Seeds	LS-1039N RR2	1.0	RR2Y	4,5	L-Coat Total, Excalibre	Peking	Rps 3-a, 1-k	P	G	BR	BF
Legacy Seeds	LS-1138N RR2X	1.1	RR2X	4,5	L-Coat Total, Excalibre	PI 88788	Rps 3-a	P	LTW	T	BR
Legacy Seeds	LS-1439N RR2X	1.4	RR2X	4	L-Coat Total, Excalibre	PI 88788	Rps 1-c	P	LTW	BR	BL
Legacy Seeds	LS-1639N RR2X	1.6	RR2X	3,4	L-Coat Total, Excalibre	PI 88788	Rps 1-c	P	LTW	BR	BR

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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. 2018 Characteristics of Soybean Varieties (5 of 9)

Brand	Entry	Maturity Group	Herbicide Trait ¹	Performance Shown in Table(s):	Seed Treatment(s)	SCN Source ²	PRR Genes ³	Color ⁴			
								Flower	Pubescence	Pod	Hilum
Legacy Seeds	LS-1838N RR2X	1.8	RR2X	3,4	L-Coat Total, Excalibre	PI 88788	Rps 1-a, 3-a	P	G	BR	BF
Legacy Seeds	LS-2139N RR2X	2.1	RR2X	2,3,4	L-Coat Total, Excalibre	PI 88788	Rps 1-a, 3-a	P	G	BR	BF
Legacy Seeds	LS-2339N RR2X	2.3	RR2X	2,3	L-Coat Total, Excalibre	PI 88788	Rps 1-c	P	G	T	IB
Legend Seeds	LS 0380HP	0.3	CN	7	YP Pro, Preside, Quickroots	S	--	--	--	--	Y
Legend Seeds	LS 0702HP	0.7	CN	7	YP Pro, Preside, Quickroots	S	Rps 1-k	P	G	BR	Y
Legend Seeds	LS 0990HP	0.9	CN	7	None	S	--	--	--	--	Y
Legend Seeds	LS 1172LLN	1.1	LL	7	YP Pro, Preside, Quickroots	PI 88788	Rps 1-k	--	--	--	--
Legend Seeds	LS 11R760N	1.1	RR2Y	4	YP Pro, Preside, Quickroots	PI 88788	Rps 3-a, 1-k	--	--	--	--
Legend Seeds	LS 12X862N	1.2	RR2X	3,4	YP Pro, Preside, Quickroots	PI 88788	Rps 3-a	--	--	--	--
Legend Seeds	LS 1380HP	1.3	CN	7	CruiserMaxx	S	--	--	--	--	Y
Legend Seeds	LS 14R22N	1.4	RR2Y	4	YP Pro, Preside, Quickroots	PI 88788	Rps 1-c	--	--	--	--
Legend Seeds	LS 14X862N	1.4	RR2X	4	YP Pro, Preside, Quickroots	PI 88788	Rps 3-a, 1-k	--	--	--	--
Legend Seeds	LS 14C953N	1.4	CN	7	YP Pro, Preside, Quickroots	PI 88788	--	--	--	--	BR
Legend Seeds	LS 1527LLN	1.5	LL	7	YP Pro, Preside, Quickroots	PI 88788	Rps 1-c	--	--	--	--
Legend Seeds	LS 16X932N	1.6	RR2X	3	YP Pro, Preside, Quickroots	PI 88788	Rps 1-c	--	--	--	--
Legend Seeds	LS 17C930N	1.7	CN	6,7	None	PI 88788	--	--	--	--	Y
Legend Seeds	LS 18X860N	1.8	RR2X	3	YP Pro, Preside, Quickroots	PI 88788	Rps 1-a, 3-a	--	--	--	--
Legend Seeds	LS 20R524N	2.0	RR2Y	2,3	YP Pro, Preside, Quickroots	PI 88788	Rps 1-c	--	--	--	--
Legend Seeds	LS 20X963N	2.0	RR2X	3	YP Pro, Preside, Quickroots	PI 88788	Rps 1-a, 3-a	--	--	--	--
Legend Seeds	LS 2180HP	2.1	CN	6	None	S	--	--	--	--	Y
Legend Seeds	LS 21C964N	2.1	CN	6	YP Pro, Preside, Quickroots	PI 88788	Rps 1-a	--	--	--	--
Legend Seeds	LS 23X920N	2.3	RR2X	2	YP Pro, Preside, Quickroots	PI 88788	Rps 1-c	--	--	--	--
Legend Seeds	LS 24C756N	2.4	CN	6	YP Pro, Preside, Quickroots	PI 88788	--	--	--	--	--
Legend Seeds	LS 24X842N	2.4	RR2X	2	YP Pro, Preside, Quickroots	PI 88788	--	--	--	--	--
Legend Seeds	LS 2580NHP	2.5	CN	6	None	PI 88788	--	--	--	--	Y

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¹ Herbicide Trait : CN = conventional, LL = glufosinate, GT or RR2Y = glyphosate, RR2X = glyphosate & dicamba, GT27 = 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, 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. 2018 Characteristics of Soybean Varieties (6 of 9)

Brand	Entry	Maturity Group	Herbicide Trait ¹	Performance Shown in Table(s):	Seed Treatment(s)	SCN Source ²	PRR Genes ³	Color ⁴			
								Flower	Pubescence	Pod	Hilum
Legend Seeds	LS 25X924N	2.5	RR2X	2	YP Pro, Preside, Quickroots	PI 88788	Rps 1-c	--	--	--	--
Legend Seeds	LS 27R524N	2.7	RR2Y	2	YP Pro, Preside, Quickroots	PI 88788	Rps 1-a	--	--	--	--
Legend Seeds	LS 2880NHP	2.8	CN	6	None	PI 88788	--	--	--	--	Y
Legend Seeds	LS 28C726N	2.8	CN	6	YP Pro, Preside, Quickroots	PI 88788	Rps 1-c	--	--	--	BR
Legend Seeds	LS 28X840N	2.8	RR2X	2	YP Pro, Preside, Quickroots	PI 88788	Rps 1-c	--	--	--	--
Legend Seeds	LS 29X954N	2.9	RR2X	2	YP Pro, Preside, Quickroots	PI 88788	Rps 1-c	--	--	--	--
LG Seeds	LGS0774RX	0.7	RR2X	5	AgriShield F/I, ILeVO	PI 88788	Rps 1-c	P	G	BR	IB
LG Seeds	C0850R2	0.8	RR2Y	5	AgriShield F/I, ILeVO	PI 88788	Rps 1-c	P	LTW	BR	BL
LG Seeds	C1000RX	1.0	RR2X	5	AgriShield F/I, ILeVO	PI 88788	Rps 3-a	P	LTW	BR	BL
LG Seeds	C1414RX	1.4	RR2X	4	AgriShield F/I, ILeVO	PI 88788	Rps 3-a, 1-k	P	LTW	T	BL
LG Seeds	C1428R2	1.4	RR2Y	4	AgriShield F/I, ILeVO	PI 88788	Rps 1-c	P	LTW	BR	BL
LG Seeds	LGS1635RX	1.6	RR2X	4	AgriShield F/I, ILeVO	PI 88788	Rps 1-c	P	LTW	BR	BR
LG Seeds	C1838RX	1.8	RR2X	3,4	AgriShield F/I, ILeVO	PI 88788	Rps 1-a, 3-a	P	LTW	BR	BF
LG Seeds	C2020R2	2.0	RR2Y	2,3	AgriShield F/I, ILeVO	PI 88788	Rps 1-c	P	LTW	BR	BL
LG Seeds	LGS2007RX	2.0	RR2X	2,3	AgriShield F/I, ILeVO	PI 88788	Rps 1-a, 3-a	P	G	BR	BF
LG Seeds	C2255R2	2.2	RR2Y	2,3	AgriShield F/I, ILeVO	PI 88788	Rps 1-c	P	LTW	BR	BL
LG Seeds	LGS2239RX	2.2	RR2X	2,3	AgriShield F/I, ILeVO	PI 88788	Rps 1-c	P	G	BR	IB
LG Seeds	LGS2444RX	2.4	RR2X	2	AgriShield F/I, ILeVO	PI 88788	Rps 1-c	P	G	BR	IB
LG Seeds	LGS2680RX	2.6	RR2X	2	AgriShield F/I, ILeVO	S	Rps 1-c	P	G	BR	BR
LG Seeds	LGS2759RX	2.7	RR2X	2	AgriShield F/I, ILeVO	PI 88788	Rps 1-k	P	G	BR	BR
LG Seeds	C2888RX	2.8	RR2X	2	AgriShield F/I, ILeVO	PI 88788	Rps 1-c	P	G	BR	BR
Munson	8087R2Y	0.8	RR2Y	4,5	Intego Suite	PI 88788	Rps 1-c	P	LTW	BR	BL
Munson	8107R2Y	1.0	RR2Y	5	Intego Suite	PI 88788	Rps 3-a, 1-k	P	LTW	T	BR
Munson	8146R2Y	1.4	RR2Y	5	Intego Suite	PI 88788	Rps 1-c	P	LTW	BR	BL
Munson	8153R2Y	1.5	RR2Y	4,5	Intego Suite	PI 88788	Rps 1-c	P	LTW	BR	BL

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¹ Herbicide Trait : CN = conventional, LL = glufosinate, GT or RR2Y = glyphosate, RR2X = glyphosate & dicamba, GT27 = 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, 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. 2018 Characteristics of Soybean Varieties (7 of 9)

Brand	Entry	Maturity Group	Herbicide Trait ¹	Performance Shown in Table(s):	Seed Treatment(s)	SCN Source ²	PRR Genes ³	Color ⁴			
								Flower	Pubescence	Pod	Hilum
Munson	9159RR2X	1.5	RR2X	4	Intego Suite	PI 88788	Rps 1-c	P	LTW	BR	BR
Munson	8196R2Y	1.9	RR2Y	4	Intego Suite	PI 88788	Rps 1-c	P	G	T	IB
NK	S07-Q4X Brand	0.7	RR2X	5	Clariva Complete, Mertect	PI 88788	Rps 1-c	P	LTW	T	BL
NK	S09-R8X Brand	0.9	RR2X	4,5	Clariva Complete, Mertect	PI 88788	Rps 1-c	P	LTW	T	IY
NK	S10-H7X Brand	1.0	RR2X	4,5	Clariva Complete, Mertect	PI 88788	Rps 1-c	P	LTW	T	BL
NK	S14-B2X Brand	1.4	RR2X	3,4	Clariva Complete, Mertect	PI 88788	Rps 1-c	P	LTW	T	BL
NK	S18-G4X Brand	1.8	RR2X	3,4	Clariva Complete, Mertect	PI 88788	Rps 1-c	P	LTW	BR	BL
NK	S18-H3X Brand	1.8	RR2X	3,4	Clariva Complete, Mertect	PI 88788	S	P	LTW	BR	BL
NK	S20-J5X Brand	2.0	RR2X	2,3	Clariva Complete, Mertect	PI 88788	Rps 1-c	W	LTW	BR	BL
NK	S20-T6 Brand	2.0	RR2Y	2,3	Clariva Complete, Mertect	PI 88788	Rps 1-c	W	LTW	BR	BL
NK	S21-W8X Brand	2.1	RR2X	2,3	Clariva Complete, Mertect	PI 88788	Rps 1-c	W	LTW	BR	BL
NK	S25-B6X Brand	2.5	RR2X	2	Clariva Complete, Mertect	PI 88788	Rps 1-c	W	LTW	BR	BR
NK	S27-M8X Brand	2.8	RR2X	2	Clariva Complete, Mertect	PI 88788	Rps 1-c	P	G	BR	IB
NK	S29-K3X Brand	2.9	RR2X	2	Clariva Complete, Mertect	PI 88788	S	P	LTW	BR	BL
NuTech	6097R2	0.9	RR2Y	4,5	SmartCote Supreme	S	Rps 3-a	P	LTW	BR	BR
NuTech	7224	2.2	GT	2,3	SmartCote Supreme	Peking	Rps 1-k	P	LTW	T	BR
O'Brien	O'SOY1901GT	1.9	GT	2,3,4	EclipseUS Trio IM	--	--	P	G	T	BL
O'Brien	O'SOY245NR2Y	2.4	RR2Y	2	EclipseUS Trio IM	PI 88788	Rps 1-c	P	TW	T/BR	BR
O'Brien	O'SOY2500GT	2.5	GT	2	EclipseUS Trio IM	--	--	W	G	BR	BL
Power Plus	20B7	2.0	GT	2	ILeVO, PowerShield	Peking	Rps 1-k	P	LTW	T	BR
Power Plus	25G8	2.5	GT	2	ILeVO, PowerShield	PI 88788	Rps 1-k	P	LTW	BR	BR
ProHarvest	0985CR2Y	0.9	RR2Y	5	CruiserMaxx, Vibrance	Peking	Rps 3-a, 1-k	P	G	BR	BF
ProHarvest	1171R2Y	1.1	RR2Y	5	CruiserMaxx, Vibrance	S	Rps 3-a	P	LTW	T	BR
ProHarvest	1484CR2Y	1.4	RR2Y	4,5	CruiserMaxx, Vibrance	PI 88788	Rps 1-k	P	LTW	BR	BR
ProHarvest	ER17141	1.4	RR2Y	4,5	None	PI 88788	HRps 3-a	P	LTW	T	BR

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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. 2018 Characteristics of Soybean Varieties (8 of 9)

Brand	Entry	Maturity Group	Herbicide Trait ¹	Performance Shown in Table(s):	Seed Treatment(s)	SCN Source ²	PRR Genes ³	Color ⁴			
								Flower	Pubescence	Pod	Hilum
ProHarvest	1638X	1.6	RR2X	4	None	PI 88788	HRps 1-c, 1-k	P	G	BR	IB
ProHarvest	1863CR2Y	1.8	RR2Y	4	CruiserMaxx, Vibrance	PI 88788	Rps 1-c	P	LTW	BR	BL
ProHarvest	2152CR2Y	2.1	RR2Y	3,4	CruiserMaxx, Vibrance	PI 88788	Rps 1-c	P	LTW	T	BR
PROSeeds	SVX 18T02	0.9	CN	7	CruiserMaxx	--	--	P	TW	--	IY
PROSeeds	SVX 18T05	0.9	CN	7	CruiserMaxx	--	--	P	G	--	Y
PROSeeds	SVX 18T08	0.9	CN	7	CruiserMaxx	--	--	P	G	--	Y
PROSeeds	SVX 18T07	1.1	CN	7	CruiserMaxx	PI 88788	--	P	G	--	Y
PROSeeds	SVX 18T12	1.1	CN	7	CruiserMaxx	--	--	P	G	--	Y
PROSeeds	SVX 18T10	1.3	CN	7	CruiserMaxx	--	--	P	TW	--	IY
PROSeeds	SVX 18T09	1.5	CN	7	CruiserMaxx	PI 88788	--	P	G	--	Y
Public	MN1410	1.4	CN	6,7	Arma	--	--	W	G	BR	BF
Public	Dane	1.5	CN	6,7	None	--	--	W	G	T	Y
Renk	RS084NR2	0.8	RR2Y	5	CruiserMaxx	--	Rps 1-c	P	LTW	BR	BF
Renk	RS089NX	0.8	RR2X	5	CruiserMaxx	--	--	--	--	--	--
Renk	RS096NR2	0.9	RR2Y	5	CruiserMaxx	S	Rps 1-c	P	LTW	BR	BL
Renk	RS149NX	1.4	RR2X	4	CruiserMaxx	--	--	--	--	--	--
Renk	RS153NR2	1.5	RR2Y	4	CruiserMaxx	PI 88788	Rps 1-c	P	LTW	BR	BL
Renk	RS169NX	1.6	RR2X	4	CruiserMaxx	--	--	--	--	--	--
Renk	RS188NX	1.8	RR2X	4	CruiserMaxx	PI 88788	Rps 1-a, 3-a	P	G	BR	BF
Renk	RS207NX	2.0	RR2X	3	CruiserMaxx	PI 88788	Rps 1-c	P	LTW	BR	BL
Renk	RS219NX	2.1	RR2X	3	CruiserMaxx	--	--	--	--	--	--
Renk	RS239NX	2.3	RR2X	3	CruiserMaxx	--	--	--	--	--	--
Renk	RS241R2	2.4	RR2Y	2,3	CruiserMaxx	--	Rps 1-c	P	G	BR	BF
Renk	RS248NX	2.4	RR2X	2,3	CruiserMaxx	PI 88788	--	P	LTW	T	BL
Renk	RS269NX	2.6	RR2X	2	CruiserMaxx	--	--	--	--	--	--
Renk	RS288NX	2.8	RR2X	2	CruiserMaxx	PI 88788	Rps 1-c	P	G	BR	IB

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TABLE 10. CONTINUED. 2018 Characteristics of Soybean Varieties (9 of 9)

Brand	Entry	Maturity Group	Herbicide Trait ¹	Performance Shown in Table(s):	Seed Treatment(s)	SCN Source ²	PRR Genes ³	Color ⁴			
								Flower	Pubescence	Pod	Hilum
SB&B	SB0718	0.8	CN	7	None	PI 88788	S	--	G	--	Y
SB&B	SB90	1.1	CN	7	None	--	S	--	G	--	Y
SB&B	SB1270	1.2	CN	7	None	--	S	P	G	T	Y
SB&B	SB165	1.6	CN	6,7	None	PI 88788	Rps 1-c	P	G	T	Y
SB&B	SB86	1.8	CN	7	None	PI 88788	S	P	G	T	Y
Stine	12BB22	1.1	GT27	4,5	RightStart FI	--	--	P	LTW	--	BL
Stine	19BA23	1.9	GT27	3,4	Stine XP F	PI 88788	Rps 1-c	W	LTW	--	BL
Tracy	0900GT	0.9	GT	4	Intego Suite, N Force	--	--	W	LTW	BR	BR
Tracy	2008GT	2.0	GT	3	Intego Suite, N Force	S	Rps 1-k	P	TW	T	BL
Tracy	2138GT	2.1	GT27	2,3	Intego Suite, N Force	--	--	--	--	--	--
Tracy	2308GT	2.3	GT	2,3	Intego Suite, N Force	S	Rps 1-k	P	G	T	IB
Tracy	2808GT	2.8	GT	2	Intego Suite, N Force	S	Rps 1-c	P	G	T	IB
Tracy	2938GT	2.9	GT27	2	Intego Suite, N Force	--	--	--	--	--	--
Viking	1218N	1.2	CN	7	None	PI 88788	Rps 3-a	P	G	BR	BL
Viking	0.1202N	1.2	CN	7	None	PI 88788	Rps 1-k	P	TW	BR	BR
Viking	1518N	1.5	CN	6,7	None	PI 88788	--	P	LTW	BR	BR
Viking	2018N	2.0	CN	6	CruiserMaxx	PI 88788	Rps 3-a	P	G	BR	BL
Viking	2155N	2.1	CN	6	CruiserMaxx	PI 88788	Rps 1-a	M	LTW	T	BR
Viking	2188AT12N	2.4	CN	6	CruiserMaxx	PI 88788	--	W	G	T	Y
Viking	0.2518N	2.5	CN	6	None	PI 88788	--	P	LTW	BR	BL

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