

# WISCONSIN Soybean Variety Performance Trials

# 2018

Department of Agronomy  
College of Agricultural and Life Sciences  
University of Wisconsin-Madison







# 2018 Wisconsin Soybean Performance Trials

Shawn P. Conley, Adam C. Roth, John M. Gaska, and Damon L. Smith

Departments of Agronomy and Plant Pathology

University of Wisconsin, Madison

**T**he 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](http://www.nass.usda.gov)

Growers experienced above average temperatures in June, July and August across WI. From May 1<sup>st</sup> through September 1<sup>st</sup>, 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](mailto: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/](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.

**TABLE LIST**

**Table 1.** General Information on the 2018 Soybean Trials ..... 7

**Table 2.** 2018 Southern Region Glyphosate Tolerant Soybean Trial ..... 8

**Table 3.** 2018 Central Region Glyphosate Tolerant Soybean Trial ..... 12

**Table 4.** 2018 North Central Region Glyphosate Tolerant Soybean Trial ..... 16

**Table 5.** 2018 Northern Region Glyphosate Tolerant Soybean Trial ..... 19

**Table 6.** 2018 Southern Conventional and Traited Herbicide Soybean Trial ..... 21

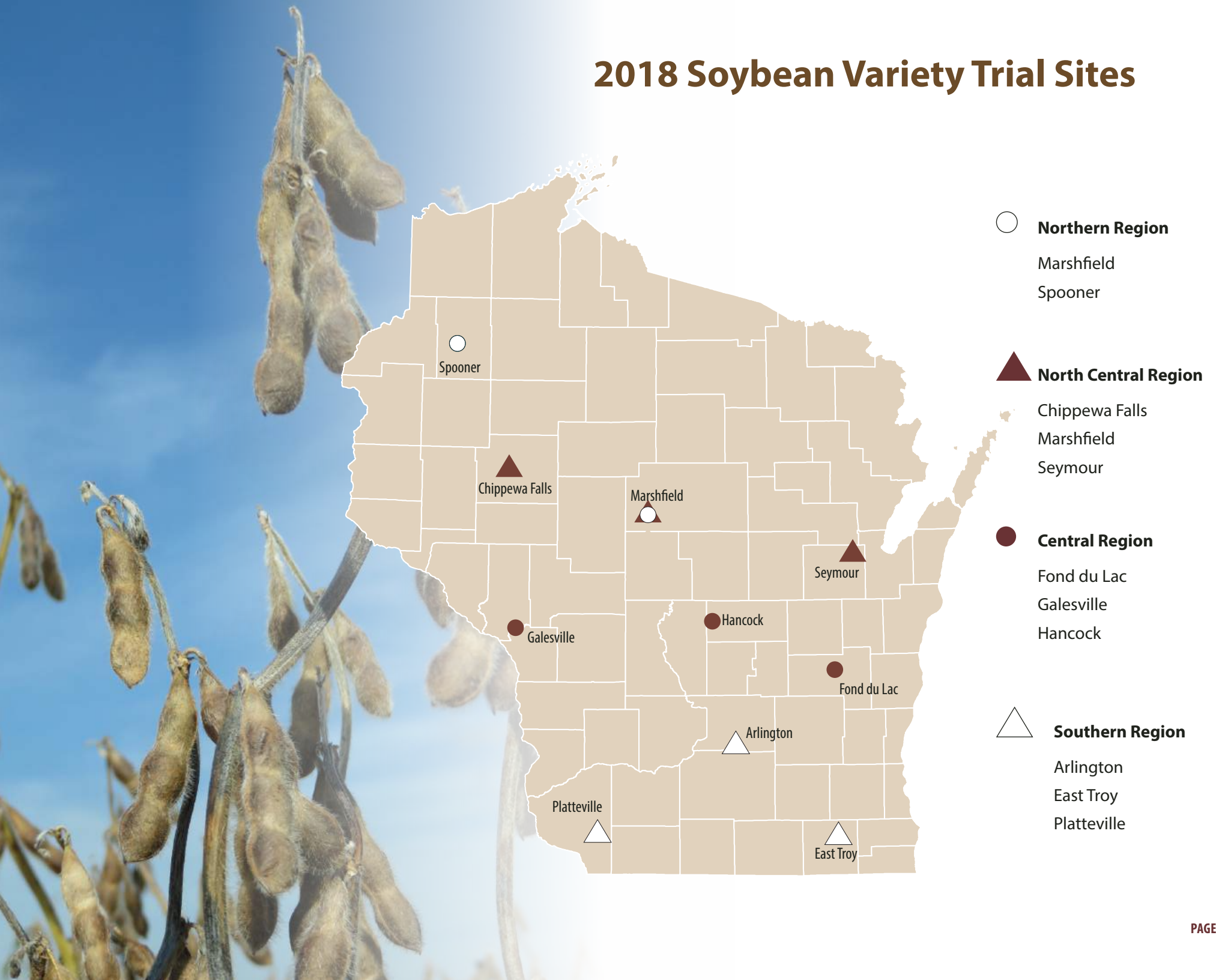
**Table 7.** 2018 North Central Conventional and Traited Herbicide Soybean Trial ..... 22

**Table 8.** 2018 Seed Source for Soybean Entries ..... 24

**Table 9.** 2018 Temperature and Precipitation Summary ..... 25

**Table 10.** 2018 Characteristics of Soybean Varieties ..... 26

# 2018 Soybean Variety Trial Sites





# 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 |
| <b>Arlington:</b><br>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      |
| <b>Arlington:</b> 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      |
| <b>Chippewa Falls:</b><br>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      |
| <b>Chippewa Falls:</b> 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      |
| <b>East Troy:</b><br>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                   | --   | --      |
| <b>Fond du Lac:</b><br>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      |
| <b>Galesville:</b><br>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      |
| <b>Hancock:</b><br>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      |
| <b>Marshfield:</b> 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      |
| <b>Marshfield:</b> 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      |
| <b>Platteville:</b><br>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                   | --   | --      |
| <b>Platteville:</b> 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                   | --   | --      |
| <b>Seymour:</b><br>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      |
| <b>Spooner:</b> 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      |
| <b>Spooner:</b> 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 <sup>1</sup> | 2018 3-Test Average |               | 2018 Yields      |                  |                    | 2018 Composition <sup>1</sup> |         | 2017 (Arlington) <sup>2</sup> |                     |               | 2017 Composition <sup>1</sup> |         |
|-----------|--------------|----------------|----------------------------|---------------------|---------------|------------------|------------------|--------------------|-------------------------------|---------|-------------------------------|---------------------|---------------|-------------------------------|---------|
|           |              |                |                            | Yield (bu/A)        | Lodging (1-5) | Arlington (bu/A) | East Troy (bu/A) | Platteville (bu/A) | Protein (%)                   | Oil (%) | Yield (bu/A)                  | WM <sup>3</sup> (%) | 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 <sup>1</sup> | 2018 3-Test Average |               | 2018 Yields      |                  |                    | 2018 Composition <sup>1</sup> |         | 2017 (Arlington) <sup>2</sup> |                     |               | 2017 Composition <sup>1</sup> |         |
|----------------|---------------|----------------|----------------------------|---------------------|---------------|------------------|------------------|--------------------|-------------------------------|---------|-------------------------------|---------------------|---------------|-------------------------------|---------|
|                |               |                |                            | Yield (bu/A)        | Lodging (1-5) | Arlington (bu/A) | East Troy (bu/A) | Platteville (bu/A) | Protein (%)                   | Oil (%) | Yield (bu/A)                  | WM <sup>3</sup> (%) | 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 <sup>1</sup> | 2018 3-Test Average |               | 2018 Yields      |                  |                    | 2018 Composition <sup>1</sup> |         | 2017 (Arlington) <sup>2</sup> |                     |               | 2017 Composition <sup>1</sup> |         |
|--------------|---------------|----------------|----------------------------|---------------------|---------------|------------------|------------------|--------------------|-------------------------------|---------|-------------------------------|---------------------|---------------|-------------------------------|---------|
|              |               |                |                            | Yield (bu/A)        | Lodging (1-5) | Arlington (bu/A) | East Troy (bu/A) | Platteville (bu/A) | Protein (%)                   | Oil (%) | Yield (bu/A)                  | WM <sup>3</sup> (%) | 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 <sup>1</sup> | 2018 3-Test Average |               | 2018 Yields      |                  |                    | 2018 Composition <sup>1</sup> |         | 2017 (Arlington) <sup>2</sup> |                     |               | 2017 Composition <sup>1</sup> |         |
|-------|---------|----------------|----------------------------|---------------------|---------------|------------------|------------------|--------------------|-------------------------------|---------|-------------------------------|---------------------|---------------|-------------------------------|---------|
|       |         |                |                            | Yield (bu/A)        | Lodging (1-5) | Arlington (bu/A) | East Troy (bu/A) | Platteville (bu/A) | Protein (%)                   | Oil (%) | Yield (bu/A)                  | WM <sup>3</sup> (%) | 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    | --                            | --                  | --            | --                            | --      |
|       |         |                | <b>Mean</b>                | 83                  | 1.4           | 84               | 87               | 78                 | 35.2                          | 19.9    | 71                            | 25                  | 1.0           | 35.6                          | 17.9    |
|       |         |                | <b>LSD (0.10)</b>          | 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.

<sup>1</sup> Maturity date, protein, and oil determined at the Arlington site.

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

<sup>3</sup> 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 <sup>1</sup> | 2018 3-Test Average |               | 2018 Yields        |                   |                | 2018 Composition <sup>1</sup> |         | 2017 3-Test Average |               | 2017 Composition <sup>1</sup> |         |
|-----------|--------------|----------------|----------------------------|---------------------|---------------|--------------------|-------------------|----------------|-------------------------------|---------|---------------------|---------------|-------------------------------|---------|
|           |              |                |                            | 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 <sup>1</sup> | 2018 3-Test Average |               | 2018 Yields        |                   |                | 2018 Composition <sup>1</sup> |         | 2017 3-Test Average |               | 2017 Composition <sup>1</sup> |         |
|----------------|---------------|----------------|----------------------------|---------------------|---------------|--------------------|-------------------|----------------|-------------------------------|---------|---------------------|---------------|-------------------------------|---------|
|                |               |                |                            | 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 <sup>1</sup> | 2018 3-Test Average |               | 2018 Yields        |                   |                | 2018 Composition <sup>1</sup> |         | 2017 3-Test Average |               | 2017 Composition <sup>1</sup> |         |
|--------------|---------------|----------------|----------------------------|---------------------|---------------|--------------------|-------------------|----------------|-------------------------------|---------|---------------------|---------------|-------------------------------|---------|
|              |               |                |                            | 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 <sup>1</sup> | 2018 3-Test Average |               | 2018 Yields        |                   |                | 2018 Composition <sup>1</sup> |         | 2017 3-Test Average |               | 2017 Composition <sup>1</sup> |         |
|------------|---------|----------------|----------------------------|---------------------|---------------|--------------------|-------------------|----------------|-------------------------------|---------|---------------------|---------------|-------------------------------|---------|
|            |         |                |                            | 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.

<sup>1</sup> 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 <sup>1</sup> | 2018 3-Test Average |               | 2018 Yields           |                   |                |                    | 2018 Composition <sup>1</sup> |         | 2017 3-Test Average |               | 2017 Composition <sup>1</sup> |         |
|-----------------|--------------|----------------|----------------------------|---------------------|---------------|-----------------------|-------------------|----------------|--------------------|-------------------------------|---------|---------------------|---------------|-------------------------------|---------|
|                 |              |                |                            | Yield (bu/A)        | Lodging (1-5) | Chippewa Falls (bu/A) | Marshfield (bu/A) | Seymour (bu/A) | SDS <sup>2</sup> % | 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 <sup>1</sup> | 2018<br>3-Test Average |               | 2018 Yields           |                   |                |                    | 2018 Composition <sup>1</sup> |         | 2017 3-Test Average |               | 2017 Composition <sup>1</sup> |         |
|--------------|---------------|----------------|----------------------------|------------------------|---------------|-----------------------|-------------------|----------------|--------------------|-------------------------------|---------|---------------------|---------------|-------------------------------|---------|
|              |               |                |                            | Yield (bu/A)           | Lodging (1-5) | Chippewa Falls (bu/A) | Marshfield (bu/A) | Seymour (bu/A) | SDS <sup>2</sup> % | 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 <sup>1</sup> | 2018 3-Test Average |               | 2018 Yields           |                   |                |                    | 2018 Composition <sup>1</sup> |         | 2017 3-Test Average |               | 2017 Composition <sup>1</sup> |         |
|------------|---------------|----------------|----------------------------|---------------------|---------------|-----------------------|-------------------|----------------|--------------------|-------------------------------|---------|---------------------|---------------|-------------------------------|---------|
|            |               |                |                            | Yield (bu/A)        | Lodging (1-5) | Chippewa Falls (bu/A) | Marshfield (bu/A) | Seymour (bu/A) | SDS <sup>2</sup> % | 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.

<sup>1</sup> Maturity date, protein, and oil determined at the Marshfield site.

<sup>2</sup> 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 <sup>1</sup> |         | 2017 3-Test Average |               | 2017 Composition <sup>1</sup> |         |
|-----------------|---------------|----------------|---------------------|--------------|---------------|-------------------|------------------------|--------------------------|-------------------------------|---------|---------------------|---------------|-------------------------------|---------|
|                 |               |                | 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 <sup>1</sup> |         | 2017 3-Test Average |               | 2017 Composition <sup>1</sup> |         |
|------------|---------------|----------------|---------------------|--------------|---------------|-------------------|------------------------|--------------------------|-------------------------------|---------|---------------------|---------------|-------------------------------|---------|
|            |               |                | 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.

<sup>1</sup> 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 →

<sup>1</sup> Herbicide Trait : CN = conventional, LL = glufosinate, GT = glyphosate

<sup>2</sup> Maturity date, protein, and oil determined at the Arlington site.

<sup>3</sup> Platteville was abandoned in 2017 due to severe crusting and poor emergence.

<sup>4</sup> 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 <sup>1</sup> | Maturity Group | Maturity Date <sup>2</sup> | 2018 2-Test Average |               | 2018 Yields      |                    | 2018 Composition <sup>2</sup> |         | 2017 Arlington <sup>3</sup> |                     |               | 2017 Composition <sup>2</sup> |         |      |
|-------------------------------------------------------------------------------------------------------------------|------------|------------------------------|----------------|----------------------------|---------------------|---------------|------------------|--------------------|-------------------------------|---------|-----------------------------|---------------------|---------------|-------------------------------|---------|------|
|                                                                                                                   |            |                              |                |                            | Yield (bu/A)        | Lodging (1-5) | Arlington (bu/A) | Platteville (bu/A) | Protein (%)                   | Oil (%) | Yield (bu/A)                | WM <sup>4</sup> (%) | 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 |
| * Yields preceded by an asterisk are not significantly different (0.10 level) than the highest yielding cultivar. |            |                              |                | 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 <sup>1</sup> | Maturity Group | Maturity Date | 2018 Chippewa Falls |               |             |         | 2017 Chippewa Falls |                     |               |             |         |
|--------------|------------|------------------------------|----------------|---------------|---------------------|---------------|-------------|---------|---------------------|---------------------|---------------|-------------|---------|
|              |            |                              |                |               | Yield (bu/A)        | Lodging (1-5) | Protein (%) | Oil (%) | Yield (bu/A)        | WM <sup>2</sup> (%) | 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 <sup>1</sup> | Maturity Group | 2018 Chippewa Falls |              |               |             |         | 2017 Chippewa Falls |                     |               |             |         |
|-------------------|---------|------------------------------|----------------|---------------------|--------------|---------------|-------------|---------|---------------------|---------------------|---------------|-------------|---------|
|                   |         |                              |                | Maturity Date       | Yield (bu/A) | Lodging (1-5) | Protein (%) | Oil (%) | Yield (bu/A)        | WM <sup>2</sup> (%) | 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    | --                  | --                  | --            | --          | --      |
| <b>Mean</b>       |         |                              |                | 8-Sep               | 71           | 3.2           | 36.8        | 19.2    | 63                  | 8                   | 1.4           | 36.1        | 17.9    |
| <b>LSD (0.10)</b> |         |                              |                | --                  | 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.

<sup>1</sup> Herbicide Trait : CN = conventional, LL = glufosinate, GT = glyphosate

<sup>2</sup> 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 | <a href="http://www.agrigold.com">www.agrigold.com</a>                                           |
| Asgrow          | Monsanto Company                 | (785) 214-3254 | <a href="http://www.aganytime.com">www.aganytime.com</a>                                         |
| BioGene         | Van Treeck's Seed Farm           | (920) 467-2422 | <a href="http://www.biogeneseeds.com">www.biogeneseeds.com</a>                                   |
| Cornelius       | Cornelius Seed                   | (563) 672-3463 | <a href="http://www.corneliusseed.com">www.corneliusseed.com</a>                                 |
| Dairyland       | Dairyland Seed                   | (800) 236-0163 | <a href="http://www.dairylandseed.com">www.dairylandseed.com</a>                                 |
| Dyna-Gro        | Dyna-Gro Seed                    | (608) 822-5000 | <a href="http://www.dynagroseed.com">www.dynagroseed.com</a>                                     |
| Federal Hybrids | Federal Hybrids, Inc.            | (712) 830-9742 | <a href="http://www.federalhybrids.com">www.federalhybrids.com</a>                               |
| FS HiSOY        | GROWMARK, Inc.                   | (309) 557-6399 | <a href="http://www.fsseeds.com">www.fsseeds.com</a>                                             |
| Golden Harvest  | Golden Harvest                   | (612) 656-8600 | <a href="http://goldenharvestseeds.com">goldenharvestseeds.com</a>                               |
| Hughes          | Burrus Bros & Associated Growers | (815) 338-1141 | <a href="http://www.burrusseed.com">www.burrusseed.com</a>                                       |
| Jung            | Jung Seed Genetics               | (800) 242-1855 | <a href="http://www.jungseedgenetics.com">www.jungseedgenetics.com</a>                           |
| Legacy Seeds    | Legacy Seeds Inc.                | (715) 467-2556 | <a href="http://www.legacyseeds.com">www.legacyseeds.com</a>                                     |
| Legend Seeds    | Legend Seeds Inc.                | (715) 821-0907 | <a href="http://www.legendseeds.net">www.legendseeds.net</a>                                     |
| LG Seeds        | LG Seeds                         | (800) 257-7333 | <a href="http://www.lgseeds.com">www.lgseeds.com</a>                                             |
| NK              | Syngenta                         | (262) 220-3015 | <a href="http://www.syngentaseeds.com">www.syngentaseeds.com</a>                                 |
| NuTech          | NuTech Seed, LLC                 | (402) 661-4700 | <a href="http://www.yieldleader.com">www.yieldleader.com</a>                                     |
| O'Brien         | O'Brien Hybrids                  | (608) 576-3685 | <a href="http://www.obrienhybrids.com">www.obrienhybrids.com</a>                                 |
| Power Plus      | Burrus Bros & Associated Growers | (815) 338-1141 | <a href="http://www.burrusseed.com">www.burrusseed.com</a>                                       |
| ProHarvest      | Brunner Seed Inc.                | (715) 672-5887 | <a href="http://www.brunnerseed.com">www.brunnerseed.com</a>                                     |
| PROSeeds        | Sevita International             | (519) 537-5157 | <a href="http://www.sevita.com">www.sevita.com</a>                                               |
| Public          | WI Foundation Seeds              | (608) 262-9954 | <a href="http://www.wisconsinfoundationseeds.wisc.edu">www.wisconsinfoundationseeds.wisc.edu</a> |
| Renk            | Renk Seed                        | (608) 837-7351 | <a href="http://www.renkseed.com">www.renkseed.com</a>                                           |
| SB&B            | SB&B Foods Inc.                  | (701) 347-4900 | <a href="http://sb-b.com">sb-b.com</a>                                                           |
| Stine           | Stine Seed Company               | (612) 756-4102 | <a href="http://www.stinseed.com">www.stinseed.com</a>                                           |
| Tracy           | Tracy Seeds, LLC                 | (608) 752-2767 | <a href="http://www.tracyseeds.com">www.tracyseeds.com</a>                                       |
| Viking          | Albert Lea Seed                  | (800) 352-5247 | <a href="http://www.alseed.com">www.alseed.com</a>                                               |



# TABLE 9. 2018 Temperature and Precipitation Summary

|                                 | Average Mean Temperature (° F) |      |      |      |        |           | Total Precipitation (inches) |      |      |      |        |           |
|---------------------------------|--------------------------------|------|------|------|--------|-----------|------------------------------|------|------|------|--------|-----------|
| Trial Location                  |                                | 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*<br>(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                   | 0.0  | 0.0  | 0.8  | 3.8    | 0.8       |
| East Troy<br>(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<br>(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                   | 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<br>(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<br>(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                   | 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 <sup>1</sup> | Performance Shown in Table(s): | Seed Treatment(s)     | Color <sup>4</sup>      |                        |        |            |     |       |
|-----------|------------|----------------|------------------------------|--------------------------------|-----------------------|-------------------------|------------------------|--------|------------|-----|-------|
|           |            |                |                              |                                |                       | SCN Source <sup>2</sup> | PRR Genes <sup>3</sup> | 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.

<sup>1</sup> Herbicide Trait : CN = conventional, LL = glufosinate, GT or RR2Y = glyphosate, RR2X = glyphosate & dicamba, GT27 = glyphosate & isoxaflutole

<sup>2</sup> Source of SCN Resistance; S =Susceptible.

<sup>3</sup> PRR= Phytophthora Root Rot Resistance: PRR Genes listed designate resistance to PRR Races.

<sup>4</sup> 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 <sup>1</sup> | Performance Shown in Table(s): | Seed Treatment(s)     | SCN Source <sup>2</sup> | PRR Genes <sup>3</sup> | Color <sup>4</sup> |            |     |       |
|-----------|--------------|----------------|------------------------------|--------------------------------|-----------------------|-------------------------|------------------------|--------------------|------------|-----|-------|
|           |              |                |                              |                                |                       |                         |                        | 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.

<sup>1</sup> Herbicide Trait : CN = conventional, LL = glufosinate, GT or RR2Y = glyphosate, RR2X = glyphosate & dicamba, GT27 = glyphosate & isoxaflutole

<sup>2</sup> Source of SCN Resistance; S = Susceptible.

<sup>3</sup> PRR = Phytophthora Root Rot Resistance; PRR Genes listed designate resistance to PRR Races.

<sup>4</sup> 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 <sup>1</sup> | Performance Shown in Table(s): | Seed Treatment(s)     | SCN Source <sup>2</sup> | PRR Genes <sup>3</sup> | Color <sup>4</sup> |            |     |       |
|-----------------|------------|----------------|------------------------------|--------------------------------|-----------------------|-------------------------|------------------------|--------------------|------------|-----|-------|
|                 |            |                |                              |                                |                       |                         |                        | 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    |

All characteristic information is provided by the originator.

<sup>1</sup> Herbicide Trait : CN = conventional, LL = glufosinate, GT or RR2Y = glyphosate, RR2X = glyphosate & dicamba, GT27 = glyphosate & isoxaflutole

<sup>2</sup> Source of SCN Resistance; S =Susceptible.

<sup>3</sup> PRR= Phytophthora Root Rot Resistance: PRR Genes listed designate resistance to PRR Races.

<sup>4</sup> 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 <sup>1</sup> | Performance Shown in Table(s): | Seed Treatment(s)                         | SCN Source <sup>2</sup> | PRR Genes <sup>3</sup> | Color <sup>4</sup> |            |     |       |
|----------------|---------------|----------------|------------------------------|--------------------------------|-------------------------------------------|-------------------------|------------------------|--------------------|------------|-----|-------|
|                |               |                |                              |                                |                                           |                         |                        | 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    |

All characteristic information is provided by the originator.

<sup>1</sup> Herbicide Trait : CN = conventional, LL = glufosinate, GT or RR2Y = glyphosate, RR2X = glyphosate & dicamba, GT27 = glyphosate & isoxaflutole

<sup>2</sup> Source of SCN Resistance; S = Susceptible.

<sup>3</sup> PRR = Phytophthora Root Rot Resistance: PRR Genes listed designate resistance to PRR Races.

<sup>4</sup> 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 (5 of 9)**

| Brand        | Entry         | Maturity Group | Herbicide Trait <sup>1</sup> | Performance Shown in Table(s): | Seed Treatment(s)           | SCN Source <sup>2</sup> | PRR Genes <sup>3</sup> | Color <sup>4</sup> |            |     |       |
|--------------|---------------|----------------|------------------------------|--------------------------------|-----------------------------|-------------------------|------------------------|--------------------|------------|-----|-------|
|              |               |                |                              |                                |                             |                         |                        | 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     |

All characteristic information is provided by the originator.

<sup>1</sup> Herbicide Trait : CN = conventional, LL = glufosinate, GT or RR2Y = glyphosate, RR2X = glyphosate & dicamba, GT27 = glyphosate & isoxaflutole

<sup>2</sup> Source of SCN Resistance; S =Susceptible.

<sup>3</sup> PRR= Phytophthora Root Rot Resistance: PRR Genes listed designate resistance to PRR Races.

<sup>4</sup> 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 <sup>1</sup> | Performance Shown in Table(s): | Seed Treatment(s)           | SCN Source <sup>2</sup> | PRR Genes <sup>3</sup> | Color <sup>4</sup> |            |     |       |
|--------------|------------|----------------|------------------------------|--------------------------------|-----------------------------|-------------------------|------------------------|--------------------|------------|-----|-------|
|              |            |                |                              |                                |                             |                         |                        | 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    |

All characteristic information is provided by the originator.

<sup>1</sup> Herbicide Trait : CN = conventional, LL = glufosinate, GT or RR2Y = glyphosate, RR2X = glyphosate & dicamba, GT27 = glyphosate & isoxaflutole

<sup>2</sup> Source of SCN Resistance; S = Susceptible.

<sup>3</sup> PRR = Phytophthora Root Rot Resistance: PRR Genes listed designate resistance to PRR Races.

<sup>4</sup> 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 <sup>1</sup> | Performance Shown in Table(s): | Seed Treatment(s)         | SCN Source <sup>2</sup> | PRR Genes <sup>3</sup> | Color <sup>4</sup> |            |      |       |
|------------|---------------|----------------|------------------------------|--------------------------------|---------------------------|-------------------------|------------------------|--------------------|------------|------|-------|
|            |               |                |                              |                                |                           |                         |                        | 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    |

All characteristic information is provided by the originator.

<sup>1</sup> Herbicide Trait : CN = conventional, LL = glufosinate, GT or RR2Y = glyphosate, RR2X = glyphosate & dicamba, GT27 = glyphosate & isoxaflutole

<sup>2</sup> Source of SCN Resistance; S = Susceptible.

<sup>3</sup> PRR = Phytophthora Root Rot Resistance: PRR Genes listed designate resistance to PRR Races.

<sup>4</sup> 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 (8 of 9)

| Brand      | Entry     | Maturity Group | Herbicide Trait <sup>1</sup> | Performance Shown in Table(s): | Seed Treatment(s)     | Color <sup>4</sup>      |                        |        |            |     |       |
|------------|-----------|----------------|------------------------------|--------------------------------|-----------------------|-------------------------|------------------------|--------|------------|-----|-------|
|            |           |                |                              |                                |                       | SCN Source <sup>2</sup> | PRR Genes <sup>3</sup> | 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    |

All characteristic information is provided by the originator.

<sup>1</sup> Herbicide Trait : CN = conventional, LL = glufosinate, GT or RR2Y = glyphosate, RR2X = glyphosate & dicamba, GT27 = glyphosate & isoxaflutole

<sup>2</sup> Source of SCN Resistance; S =Susceptible.

<sup>3</sup> PRR= Phytophthora Root Rot Resistance: PRR Genes listed designate resistance to PRR Races.

<sup>4</sup> 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 (9 of 9)

| Brand  | Entry     | Maturity Group | Herbicide Trait <sup>1</sup> | Performance Shown in Table(s): | Seed Treatment(s)     | Color <sup>4</sup>      |                        |        |            |     |       |
|--------|-----------|----------------|------------------------------|--------------------------------|-----------------------|-------------------------|------------------------|--------|------------|-----|-------|
|        |           |                |                              |                                |                       | SCN Source <sup>2</sup> | PRR Genes <sup>3</sup> | 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    |

All characteristic information is provided by the originator.

<sup>1</sup> Herbicide Trait : CN = conventional, LL = glufosinate, GT or RR2Y = glyphosate, RR2X = glyphosate & dicamba, GT27 = glyphosate & isoxaflutole

<sup>2</sup> Source of SCN Resistance; S = Susceptible.

<sup>3</sup> PRR = Phytophthora Root Rot Resistance: PRR Genes listed designate resistance to PRR Races.

<sup>4</sup> 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.





# 2018



© 2018 by the Board of Regents of the University of Wisconsin System doing business as the division of Cooperative Extension of the University of Wisconsin-Extension. All rights reserved.

**Authors:** Shawn P. Conley is professor of Agronomy, Adam C. Roth is senior research specialist in Agronomy, John M. Gaska is senior research agronomist in Agronomy, and Damon L. Smith is associate professor of Plant Pathology, College of Agricultural and Life Sciences, University of Wisconsin-Madison. Shawn P. Conley and Damon L. Smith also hold appointments with University of Wisconsin-Extension, Cooperative Extension. Cooperative Extension publications are subject to peer review.

**University of Wisconsin-Extension, Cooperative Extension**, in cooperation with the U.S. Department of Agriculture and Wisconsin counties, publishes this information to further the purpose of the May 8 and June 30, 1914, Acts of Congress. An EEO/AA employer, University of Wisconsin-Extension provides equal opportunities in employment and programming, including Title VI, Title IX, and the Americans with Disabilities Act (ADA) requirements. If you have a disability and require this information in an alternative format (Braille, large print, audiotape, etc.), please contact [oedi@uwex.uwc.edu](mailto:oedi@uwex.uwc.edu). For communicative accommodations in languages other than English, please contact [languageaccess@ces.uwex.edu](mailto:languageaccess@ces.uwex.edu).

**This publication is available** from your county UW-Extension office ([counties.uwex.edu](http://counties.uwex.edu)) or from Cooperative Extension Publishing. To order, call toll-free 1-877-947-7827 or visit our website at [learningstore.uwex.edu](http://learningstore.uwex.edu).

**Wisconsin Soybean Performance Trials 2018 (A3654)** 11/2018

